



## NAAC DVV Clarifications- Criteria 3.2.1

### Awards sanctioned from 2013-14 to 2017-2018

S.NO	Academic year	No of Research Projects	Grant (in lakhs)
1.	<a href="#">2017-2018</a>	14	310.28
2.	<a href="#">2016-2017</a>	7	422.62
3.	<a href="#">2015-2016</a>	6	80.18
4.	<a href="#">2014-2015</a>	11	773.29
5.	<a href="#">2013-2014</a>	40	1019.08
	Total	78	2605.45



## Awards sanctioned 2017-2018

s.no	Name of the Project/ Endowments, Chairs	Name of the Principal Investigator/ Co Investigator	Name of the Funding agency	Department of Principal Investigator/ Co Investigator	Year of Award	Funds provided (INR in lakhs)	Duration of the project	link
1	Technical Education Quality Improvement Programme- (TEQIP-III)	Dr.M.Palaninatha Raja	National Project Implementation Unit	Mechatronics	2017-2018	126.16	3 years	<a href="#">Click here</a>
2	Virtual Reality based cognitive rehabilitation for autism children to improve their social behavior	Mrs.T.Manju Dr.D.Tamilselvi	DST	Information Technology	2017-2018	28.5	3 years	<a href="#">Click here</a>
3	Acoustic energy absorption in ferromagnetic shape memory alloys polymer composites	Dr. M. MAHENDRAN	DST-WOS-A	Physics	2017-2018	26	3 years	<a href="#">Click here</a>
4	Study on the Reclamation of Waste Land using Treated/Untreated Wastewater	Dr. S. Chandran	DST-SERB, Delhi	Civil Engineering	2017-2018	19.06	3 years	<a href="#">Click here</a>
5	Analysis and Development of Design Data for RF MEMS Phase Shifters for Phased Arrays	Dr.S.Kanthamani	AICTE	ECE	2017-2018	16.94	3 years	<a href="#">Click here</a>
6	Modeling and Simulation of High Electron Mobility Transistors(HEMTS) for High Frequency CMOS Applications	Dr.N.B.Balamurugan	AICTE (RPS)	ECE	2017-2018	15.76	3 years	<a href="#">Click here</a>
7	Design and development of a mixed signal test bench to the researcher under dynamic characteristics	Dr.K.Hariharan	AICTE	ECE	2017-2018	13.21	3 years	<a href="#">Click here</a>
8	Video Cognitive Services	Dr.S.Md.Mansoor Roomi	Honeywell, Madurai	ECE	2017-2018	5.98	1 Year	<a href="#">Click here</a>



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9	Video Cognitive Services	Dr.B.Yogameena	Honeywell, Madurai	ECE	2017- 2018	5.98	1 Year	<a href="#">Click here</a>
10	Video Cognitive Services	Dr.B.Sathyabama	Honeywell, Madurai	ECE	2017- 2018	5.98	1 Year	<a href="#">Click here</a>
11	Design of Neural Network Based New Demand Side Management System for Educational Institutions	Dr.S.Charles Raja	Science and Engineering research Board,DST	EEE	2017- 2018	30.22	4 years	<a href="#">Click here</a>
12	Porosity dependent structure and magnetic properties of polycrystalline ferromagnetic shape memory alloy foams	Dr. M. MAHENDRAN	UGC-DAE-CSR Indore	Physics	2017- 2018	13	3 years	<a href="#">Click here</a>
13	Multifactor authentication for virtual private network	Dr.S.Muthuramalingam Mrs.C.V.Nisha Angline	AICTE - ISRO	Information Technology	2017- 2018	3	1 year	<a href="#">Click here</a>
14	Performance study of integrated vapor compression refrigeration and bubble column humidifier operated with bio mass	Mr.Chandra	ISHRAE Student Project Grant-ISPG	Mechanical Engineering	2017 - 2018	0.49	1 year	<a href="#">Click here</a>



## Awards sanctioned 2016-2017

s.no	Name of the Project/ Endowments, Chairs	Name of the Principal Investigator/ Co Investigator	Name of the Funding agency	Department of Principal Investigator/ Co Investigator	Year of Award	Funds provided (INR in lakhs)	Duration of the project	link
1	Technical Education Quality Improvement Programme- (TEQIP-II)	Dr.M.Palaninatha Raja	National Project Implementation Unit	Mechatronics	2016-2017	294.2	4 years	<a href="#">Click here</a>
2	Development of micro channels based personal cooling system for fire fighter	Dr.G.Kumaraguruparan	Department of Science & technology, New Delhi	Mechanical Engineering	2016-2017	31.3	3 years	<a href="#">Click here</a>
3	Design and Development of an Integrated Multiband Antenna for Interoperable Navigational Applications	Dr. S.Raju Dr.V.Abhai Kumar	RCI, Hyderabad	ECE	2016-2017	19.63	1 Years	<a href="#">Click here</a>
4	Quasi- Z source cascaded multilevel inverter-based Photo voltaic systems	Dr.P.S.Manoharan	UGC	EEE	2016-2017	25	3 years	<a href="#">Click here</a>
5	Nano structured Ferromagnetic shape memory thin films for actuator applications	Dr. M. Mahendran	DST-SERB	Physics	2016-2017	39	3 years	<a href="#">Click here</a>
6	Magnetic and structural properties of Co and Fe substituted Ni-Mn-Sb using neutron diffraction and first principles calculations	Dr. M. Mahendran	UGC-DAE-CSR Mumbai	Physics	2016-2017	13	3 years	<a href="#">Click here</a>
7	Study on Utilisation of Vapour Compression refrigeration system waste heat for desalination humidification and dehumidification	Mr.Arulmani	ISHRAE Student Project Grant-ISPG	Mechanical Engineering	2016 - 2017	0.49	1 year	<a href="#">Click here</a>



## Awards sanctioned 2015-2016

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s.no	Name of the Project/ Endowments, Chairs	Name of the Principal Investigator/ Co Investigator	Name of the Funding agency	Department of Principal Investigator/ Co Investigator	Year of Award	Funds provided (INR in lakhs)	Duration of the project	Link
1	Technical Education Quality Improvement Programme- (TEQIP-II)	Dr.M.Palaninatha Raja	National Project Implementation Unit	Mechatronics	2015-2016	7.99	4 years	<a href="#">Click here</a>
2	Performance of Flyash Based Geopolymer Coated Aggregates – Bituminous Mixes Using Different Filler Materials	Dr.R.Velkennedy Dr.S.Nagan Mrs. D.Srividya	National Institute of Technology, Trichy.	Civil Engineering	2015-2016	1.00	1 Year	<a href="#">Click here</a>
3	Investigation of Flow mal-distribution in silicon based micro channel Heat sinks.	Dr.G.Kumaraguruparan	University Grants commission, New Delhi	Mechanical Engineering	2015-2016	15.3	3 years	<a href="#">Click here</a>
4	Design of Wband LNA in 130nm SiGe Process	Dr.V.Abhaikumar Dr.S.Rajaram	RCI, Hyderabad	ECE	2015-2016	24.73	9 Months	<a href="#">Click here</a>
5	Thermal performance evaluation of roofs in residential buildings in Madurai	DR.A.Madhumathi S.Subhashini	UGC	Architecture	2015-2016	14	3 years	<a href="#">Click here</a>
6	A study on the construction of low cost hygienic Rural Toilets using Pre -Fabricated structure made up of waste plastics stone blocks(Plastone)	Dr.R.Vasudevan	Ministry of drinking water and sanitation	Chemistry	2015-2016	17	1 Year	<a href="#">Click here</a>

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## Awards sanctioned 2014-2015

s.no	Name of the Project/ Endowments, Chairs	Name of the Principal Investigator/ Co Investigator	Name of the Funding agency	Department of Principal Investigator/ Co Investigator	Year of Award	Funds provided (INR in lakhs)	Duration of the project	link
1	Technical Education Quality Improvement Programme- (TEQIP-II)	Dr.M.Palaninatha Raja	National Project Implementation Unit	Mechatronics	2014-2015	204.46	4 years	<a href="#">Click here</a>
2	Development of methodology/procedure for the measurement of C.G and Moment of Inertia of automotive engine and assembly	Dr.M.Palaninatharaja	UGC	Mechanical Engineering	2014-2015	4.6	3 years	<a href="#">Click here</a>
3	Performance Enhancement Investigation of Shell and Tube Heat exchanger for Thermal Energy Storage Applications	Dr.A.ValanArasu	AICTE, New Delhi	Mechanical Engineering	2014-2015	16.25	3 years	<a href="#">Click here</a>
4	Development and implementation of Signal processing algorithms for real time RADAR pulse parameters measurements	Dr. S.J. Thiruvengadam	DLRL	ECE	2014-2015	9.77	3 years	<a href="#">Click here</a>
5	An agent based cloud revenue model for woman empowerment in rural areas	Dr.S.Padmavathi	AICTE	CSE	2014-2015	5.51	4 Years	<a href="#">Click here</a>
6	Social Outreach Programme	Dr.S.Mercy Shalinie & Dr.K.Sundarakantham	FOSSEE-IITB	CSE	2014-2015	2	2 Years	<a href="#">Click here</a>
7	Video Analytic Development System	Dr.B.Yogameena	DST, IISC Bangalore	ECE	2014-2015	3.5	3 years	<a href="#">Click here</a>
8	m-Eyecare	Dr.S.Mercy Shalinie & Dr.S.Raju	DIT	CSE & ECE	2014-2015	26.3	2 Years	<a href="#">Click here</a>



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9	Establishment of Technology incubation centre at Thiagarajar college of Engineering	Dr.S.Muralidharan	Department of Science & technology, New Delhi	Mechanical Engineering	2014-2015	450	4 years	<a href="#">Click here</a>
10	Development of nano composite for suppression of excess EMF radiation	Dr.V.Abhai Kumar Dr.Balaji	DST	ECE	2014-2015	49.9	3 years	<a href="#">Click here</a>
11	Aakash R&D Work	Dr.P.Karthikeyan	MHRD - IIT Bombay	Information Technology	2014-2015	1	1 year	<a href="#">Click here</a>



## Awards sanctioned 2013-2014

s.no	Name of the Project/ Endowments, Chairs	Name of the Principal Investigator/ Co Investigator	Name of the Funding agency	Department of Principal Investigator/ Co Investigator	Year of Award	Funds provided (INR in lakhs)	Duration of the project	link
1	Technical Education Quality Improvement Programme- (TEQIP-II)	Dr.M.Palaninatha Raja	National Project Implementation Unit	Mechatronics	2013-2014	334.45	4 years	<a href="#">Click here</a>
2	Study on Influence of Industrial By – Products on Modified Reactive Powder Concrete (MRPC)	Dr.K. Arunachalam, Ms. M. Vigneshwari	UGC, New Delhi	Civil Engineering	2013-2014	10.4	3 years	<a href="#">Click here</a>
3	Design and development of 1GHz-6Ghz ultra wide band Vivaldi antenna for airborne applications	Dr.S.Raju	DARE, Defence R&D lab Bangaore	ECE	2013-2014	17.59	3 years	<a href="#">Click here</a>
4	Design and development of a conformal wrap Around antenna for Navigation application	Dr.S.Raju	RCI, Hyderabad	ECE	2013-2014	9.84	3 years	<a href="#">Click here</a>
5	Design and development of conformal antenna array for avionics applications	Dr.B. Manimegalai	DRDO	ECE	2013-2014	17.53	2 Years	<a href="#">Click here</a>
6	Enterprise mobility lab	Dr.S.Muthuramalingam	Motorola Solutions Foundation	Information Technology	2013-2014	10	1 year	<a href="#">Click here</a>
7	Use of Agro Residual and Industrial Wastes in the Development of Ultra High Performance Concrete	Dr.K. Arunachalam, Dr. M. Kottaisamy	AICTE New Delhi	Civil Engineering Chemistry	2013-2014	22.91	3 years	<a href="#">Click here</a>
8	Victims identification in forensic odontology using dental images	Dr. A.Banumathi	UGC	ECE	2013-2014	6.96	4 Years	<a href="#">Click here</a>
9	Investigation on Photometric Characteristics of LED and OLEDs using Integrating Sphere	Dr.P.S.Manoharan	AICTE	EEE	2013-2014	23	4 years	<a href="#">Click here</a>





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10	Recovery of waste plastics from e-waste component and waste rubber from used tires	Dr. R. Vasudevan	DST	Chemistry	2013-2014	42.08	3 Years	<a href="#">Click here</a>
11	Security Metrics for Business Information Systems using Business Analytics	Dr.T.Chandrakumar	UGC	Department of Computer Applications	2013-2014	0.75	3 years	<a href="#">Click here</a>
12	Research study for the reuse of Wastewater(Industrial & Domestic) for irrigation in Tirunelveli Corpn.	Dr. K. Arunachalam Dr. S. Chandran Dr. T. Vel Rajan	WRO, PWD - IAMWARM	Civil Engineering	2013-2014	13	1 Year	<a href="#">Click here</a>
13	Non Destructive Testing (NDT) of Composite Materials using texture and morphology based Scanned Electron Microscope (SEM) image Analysis	Dr.S.Karthikeyan	UGC	Mechanical Engineering	2013-2014	11	3 years	<a href="#">Click here</a>
14	Modeling and simulation of Multi-gate Nanowire transistors for low power CMOS applications	Dr. N.B. Balamurugan	AICTE (RPS)	ECE	2013-2014	8.97	3 years	<a href="#">Click here</a>
15	Performance analysis of mobile AD-Hoc Network security	Dr. MSK Manikandan	AICTE (RPS)	ECE	2013-2014	10.67	3 years	<a href="#">Click here</a>
16	Achieving Energy Efficiency in Three Phase Induction Motors: Non-destructive Winding Quality Assurance Approach	Dr.V.Prakash	UGC	EEE	2013-2014	9	5 years	<a href="#">Click here</a>
17	Scheduling algorithm to minimize the WCET of safety critical applications on Multicore Processors	Dr.P.Chitra	UGC	CSE	2013-2014	4.93	5 Years	<a href="#">Click here</a>
18	Mobile based Cardiovascular disease diagnosis system for rural India	Dr.C.Deisy	AICTE	CSE	2013-2014	5.21	4 Years	<a href="#">Click here</a>
19	Deterministic Execution time analysis of Real time applications on Multicore Architectures	Dr.P.Chitra	AICTE	CSE	2013-2014	3.2	4 Years	<a href="#">Click here</a>
20	Development of electrochemical machining process for Ti6Al4V diaphragms sponsored by CVRDE, Avadi	Dr.S.Balaji	CVRDE	Chemistry	2013-2014	19.48	3 Years	<a href="#">Click here</a>



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21	Intelligent surveillance system for Humanaction analysis	Dr. B. Yogameena	UGC	ECE	2013-2014	8.62	3 years	<a href="#">Click here</a>
22	Nano transmission line analysis for interconnect applications	Dr. S. Kanthamani	UGC	ECE	2013-2014	14.28	3 years	<a href="#">Click here</a>
23	Efficient channel navigation in internet protocol television (IPTV) using a novel frequency interleaved ordering scheme	Dr. MSK Manikandan	UGC	ECE	2013-2014	10.31	3 Years	<a href="#">Click here</a>
24	Synthesis of Dual band bandpass filter using particle swarm optimization techniques for wireless applications	Dr. A. Thenmozhi	UGC	ECE	2013-2014	9.07	3 years	<a href="#">Click here</a>
25	Vibration control of piezoelectric actuated smart structure with changing temperature	Dr. L.R.Karlmarx	UGC	ECE	2013-2014	12.1	3 years	<a href="#">Click here</a>
26	Intelligent video surveillance system for crowd density estimation and human abnormal action analysis.	Dr. B. Yogameena	SERB	ECE	2013-2014	10.7	3 years	<a href="#">Click here</a>
27	Semi Graph Structure in DNA Computing	Dr.S.Jeya Bharathi	UGC	Mathematics	2013-2014	7.15	4 Years	<a href="#">Click here</a>
28	Development of Encapsulated phosphor materials for phosphor converted white light emitting diodes (pcWLEDs) for energy saving lighting systems	Dr. M. Kottaisamy	UGC New Delhi	Chemistry	2013-2014	12	2 Years	<a href="#">Click here</a>
29	Design and Development of Stego Intrusion Detection System (StegoIDS) for Image Covers using Multi-core Environment	Dr.S.Geetha	AICTE - RPS	Information Technology	2013-2014	4.17	3 years	<a href="#">Click here</a>
30	Development of LiFePO <sub>4</sub> /C, Li <sub>2</sub> FeSiO <sub>4</sub> /C Based Composite Positive Electrodes and Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> Based Negative Electrode For High Power Energy storage Applications sponsored by DST, Delhi	Dr.S.Balaji	DST, Delhi	Chemistry	2013-2014	7.44	3 years	<a href="#">Click here</a>

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31	GSM based ECG Tele-alert system	Dr.R.Sukanesh	UGC	ECE	2013-2014	3.98	3 years	<a href="#">Click here</a>
32	Synthesis & characterization of magneto dielectric substrate for microwave antenna applications	Dr.V.Abhaikumar Dr.S.Raju and Dr.S.Balaji	DRDO	ECE	2013-2014	20.86	3 years	<a href="#">Click here</a>
33	Critical Component Identification And Verification For Real Time Complex Systems Using Artificial Bee Colony Based Approach	Dr.D.Jeya Mala	UGC	Computer Applications	2013-2014	10.1	4 Years	<a href="#">Click here</a>
34	Parameter Estimation for Parallel Communication Context Free Graph Grammar	Dr.S.Jeya Bharathi	AICTE	Mathematics	2013-2014	5	3 years	<a href="#">Click here</a>
35	Design & development of capacitive RF MEMS shunt switch	Dr.S.Kanthamani	SERB	ECE	2013-2014	23.2	3 years	<a href="#">Click here</a>
36	Varactor Based RFMEMS Phase Shifter for Ku Band Applications	Dr.S.Raju Dr.S.Kanthamani	Aeronautical Development Agency, Bangalore	ECE	2013-2014	134.3	2 Years	<a href="#">Click here</a>
37	Content Generation, Adaptation & distribution in M-Learning environment using mobile phone application	Dr.S.Mercy Shalinie & Dr.S.Raju	DIT	CSE & ECE	2013-2014	64.43	3 years	<a href="#">Click here</a>
38	Environmental and Social Impact Assessment of TN- IAMWARM Project and Non Project areas for 9 sub basins	Dr.S.Chandran R.K.C. Jeykumar	PWD - Tamilnadu	Civil Engineering	2013-2014	49.9	6 Years	<a href="#">Click here</a>
39	Development of miniaturized fractal antenna for multiband wireless applications	Dr. B Manimegalai	DRDO	ECE	2013-2014	11	3 years	<a href="#">Click here</a>
40	Electro Machining of Titanium Alloys	Dr.M.Palaninatharaja	CVRDE, Avadi, Chennai	Mechanical Engineering	2013-2014	19.5	3 years	<a href="#">Click here</a>



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No.DST/CSRI/2017/304(G)  
Government of India  
Ministry of Science & Technology  
Department of Science & Technology

Technology Bhavan  
New Mehrauli Road  
New Delhi-110 016  
Dated: 31.07.2018

**ORDER**

Sub: Financial approval of the project Under Cognitive Science Research Initiative (CSRI) entitled "**Virtual reality based cognitive rehabilitation for Autism children to improve their social behavior**"

PI: Ms. T. Manju, Professor, Department of Information Technology, Thiagarajar College of Engineering, Madurai-625015.

Sanction of the President is hereby accorded to the above mentioned project at a total cost of **₹33,78,800/-** (Rupees Thirty Three Lakh Seventy Eight Thousand and Eight Hundred only) with a break up **₹15,00,000/-** under 'Capital Head' and **₹18,78,800/-** under 'General Head' for a duration of Three years. The terms of expenditure for which the total allocation of **₹33,78,800/-** has been approved for Three years are given below:

Sl. No.	Heads	1 <sup>st</sup> Year	2 <sup>nd</sup> Year	3 <sup>rd</sup> Year	Total
<b>A.</b>	<b>Non-Recurring (Capital Items)</b>				
	Equipment- Vive-Head Mount Display, rift-Head Mount Display, Computers, Monitor, DSLR Camera, Web Camera, Multimedia	15,00,000/-	-----	-----	15,00,000/-
<b>B.</b>	<b>Recurring (General)</b>				
	Fellowship: RA-1 @ Rs. 36,000/M for 3 years + HIRA @Rs.1,800/- pm	4,53,600/-	4,53,600/-	4,53,600/-	13,60,800/-
	Consumables	10,000/-	10,000/-	-	20,000/-
	Contingencies	40,000/-	30,000/-	30,000/-	1,00,000/-
	Travel	40,000/-	30,000/-	30,000/-	1,00,000/-
<b>C.</b>	<b>Overhead</b>	1,00,000/-	99,000/-	99,000/-	2,98,000/-
<b>D.</b>	<b>Total of Recurring Grant (B+C)</b>	<b>6,43,600/-</b>	<b>6,22,600/-</b>	<b>6,12,600/-</b>	<b>18,78,800/-</b>
<b>E.</b>	<b>GRAND TOTAL (A+D)</b>	<b>21,43,600/-</b>	<b>6,22,600/-</b>	<b>6,12,600/-</b>	<b>33,78,800/-</b>

2. Overhead expenses are meant for the host institute towards the cost for providing infrastructure facilities and benefits to the staff engaged in the project, etc. **Recruitment of RA will be done as per OM No. SR/S9/Z-09/2012 dated 21.10.2014.**

3. Sanction of the grant is subject to the conditions as detailed in website [www.dst.gov.in](http://www.dst.gov.in)

4. Sanction of the President is accorded to the payment of **₹6,43,600/- (Rupees Six Lakh Forty Three Thousand & Six Hundred only)** under 'Grant-in-aid General' to the Principal, Thiagarajar College of Engineering, Madurai-625015 being first installment of grant for the year 2018-2019 for implementation of the said research project.

5. The grantee organization will maintain separate audited account for the project and the entire amount of grant will be kept in an interest bearing bank account. For grants released during FY 2017-18 and onwards all interests and other earnings, against released grant shall be remitted to consolidated fund of India, immediately after finalization of accounts, as it shall not to be adjusted towards future release of grant. A certificate to this effect shall have to be submitted along with Statement of Expenditure/ Utilization Certificate for considering subsequent release of grant/closure of project accounts.

6. This sanction is subject to the condition that the grantee organization will furnish to the Department of Science & Technology, financial year wise Utilization Certificate (UC) in the proforma prescribed as per GFR 2017 and audited statement of expenditure (SE) along with up to date progress report at the end of each financial year duly reflecting the interest earned / accrued on the grants received under the project. This is also subject to the condition of submission of the final statement of expenditure, utilization certificate and project completion report within one year from the scheduled date of completion of the project.

7. The grantee organization will have to enter & upload the Utilization Certificate in the PFMS portal besides sending it in physical form to this Division. The subsequent/final installment will be released only after confirmation of the acceptance of the UC by the Division and entry of previous Utilization Certificate in the PFMS.

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No.SR/WOS-A/PM-63/2017 (G)  
Government of India  
Ministry of Science & Technology  
Department of Science & Technology  
KIRAN DIVISION

Technology Bhawan  
New Mehrauli Road  
New Delhi-110016  
Dated 03.07.2018

**ORDER**

Sub: Financial approval of the project under Women Scientist Scheme A (WOSA) entitled "Acoustic energy absorption in ferromagnetic shape memory alloy polymer composites."

PI Ms S.B.P. Abirami, Department of Physics, Thiagarajar College of Engineering, Madurai-625015 TN.

Sanction of the President is hereby accorded to the approval of the above mentioned project at a total cost of **Rs 25,90,000/-** (Rupees Twenty Five Lakh Ninety Thousand only) for a duration of 3 years. The detailed breakup of the grant for General (Rs 20,90,000/-) as well as Capital (Rs 5,00,000/-) Components are given below:

Sl. No.	Heads	1 <sup>st</sup> Year	2 <sup>nd</sup> Year	3 <sup>rd</sup> Year	Total
<b>A.</b>	<b>Non-Recurring (Capital Items)</b>				
	Equipments: Tubular furnace, SRS power supply, Labview, MacBook	5,00,000/-	-----	-----	5,00,000/-
<b>B.</b>	<b>Recurring(General)</b>				
	Fellowship for M.Tech@ Rs. 40,000/-	4,80,000/-	4,80,000/-	4,80,000/-	14,40,000/-
	Consumables: (including analysis charges)	1,00,000/-	1,00,000/-	1,00,000/-	3,00,000/-
	Contingencies	20,000/-	20,000/-	20,000/-	60,000/-
	Travel	20,000/-	20,000/-	20,000/-	60,000/-
<b>C.</b>	<b>Overhead</b>	77,000/-	77,000/-	76,000/-	2,30,000/-
<b>D.</b>	<b>Total of Recurring Grant (B+C)</b>	<b>6,97,000/-</b>	<b>6,97,000/-</b>	<b>6,96,000/-</b>	<b>20,90,000/-</b>
<b>E.</b>	<b>GRAND TOTAL (A+D)</b>	<b>11,97,000/-</b>	<b>6,97,000/-</b>	<b>6,96,000/-</b>	<b>25,90,000/-</b>

2. Sanction of the grant is subject to the conditions as detailed in website [www.online-wosb.gov.in](http://www.online-wosb.gov.in)

3. The sanction of the President is also accorded to the release of **Rs 6,97,000/-** (Rupees Six Lac Ninety Seven Thousand only) under 'General Component' to The Registrar, Thiagarajar College of Engineering, Madurai-625015, TN being the first installment of the grant for the year 2018-2019 for implementation of the above mentioned project.

4. This sanction is subject to the condition that the grantee organization will furnish to the Department of Science & Technology, financial year wise Utilization Certificate (UC) in the proforma prescribed as per GFR 2017 and audited statement of expenditure (SE) along with up to date progress report at the end of each financial year duly reflecting the interest earned / accrued on the grants received under the project. This is also subject to the condition of submission of the final statement of expenditure, utilization certificate and project completion report within one year from the scheduled date of completion of the project.

5. The grantee organization will have to enter & upload the Utilization Certificate in the PFMS portal besides sending it in physical form to this Division. The subsequent/final installment will be released only after confirmation of the acceptance of the UC by the Division and entry of previous Utilization Certificate in the PFMS.

6. If the grant has been released under capital head through separate sanction order under the same project for purchase of equipment(s), separate SE/UC has to be furnished for the released Capital head grant.

7. The grant-in-aid being released is subject to the condition that:

(a) A transparent procurement procedure in line with the Provisions of General Financial Rules 2017 will be followed by the Institute/Organization under the appropriate rules of the grantee organization while procuring capital assets sanctioned for the above mentioned project and a certificate to this effect will be submitted by the Grantee organization immediately on receipt of the grant.

(b) While submitting Utilization Certificate/Statement of Expenditure, the organization has to ensure submission of supporting documentary evidences with regard to purchase of equipment/capital assets as per the provisions of GFR 2017. Subsequent release of grant under the project shall be considered only on receipt of the said documents.

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FILE NO. L13/2017/90084  
**SCIENCE & ENGINEERING RESEARCH BOARD(SERB)**  
(a statutory body of the Department of Science & Technology, Government of India)  
5 & 5A, Lower Ground Floor  
Vasant Square Mall  
Flat No. A, Community Centre  
Sector-6 Pocket-5, Vasant Kunj  
New Delhi-110070

Dated: 23-Feb-2018

**ORDER**

Subject: Financial Sanction of the research project titled "Study on the reclamation of Wasteland using treated/untreated urban wastewater" under the guidance of Dr. Chandran Sundarajan, Civil, Thiagarajar College of Engg., Madurai, Madurai, Tamil Nadu 625004 - Release of 1st grant.

Sanction of Science and Engineering Research Board (SERB) is hereby accorded to the above mentioned project at a total cost of Rs. 1906000/- (Rs. Nineteen Lakh Six Thousand Only) with break-up of Rs. 100000/- under Capital (Non-recurring) head and Rs. 1806000/- under General (Recurring) head for a duration of 36 months. The items of expenditure for which the total allocation of Rs. 1906000/- has been approved are given below:

The following budget may be considered for Thiagarajar College Of Engg, Madurai

S. No	Head	Total (in Rs.)
<b>A</b>	<b>Non-recurring</b>	
1	Equipment -> Work station	100000
<b>A'</b>	<b>Total (Non-Recurring)</b>	<b>100000</b>
<b>B</b>	<b>Recurring items</b>	
1	Recurring - A : (Manpower)	936000
	Recurring - B : (Consumables, Travel, Contingencies)	700000
2	Recurring - C : (Overhead Charges)	170000
<b>B'</b>	<b>Total (Recurring)</b>	<b>1806000</b>
<b>C</b>	<b>Total cost of the project (A + B')</b>	<b>1906000</b>

- Sanction of the SERB is also accorded to the payment of
  - Rs. 100000/- (Rupees One Lakh only) under 'Grants for creation of capital assets' and Rs. 600000/- (Rupees Nine Lakh Twelve Thousand only) under 'Grants-in-aid General to Principal, Thiagarajar College of Engg, Madurai
 being the first installment of the grant for the year 2017-2018 for implementation of the said research project.
- The expenditure involved is admissible to Fund for Science & Engineering Research (FSER). This release is being made under Empowerment and Equity Opportunities for Excellence in Science. (Task force Committee) (SC)
- The Sanction has been issued to Thiagarajar College of Engg, Madurai with the approval of the competent authority under delegated powers on 21 February, 2018 and vide Diary No. SERB/P/9557/2017-2018 dated 21 February, 2018
- Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website ([www.serb.gov.in](http://www.serb.gov.in)).
- Overhead expenses are meant for the host institute towards the cost for providing infrastructural facilities and general administrative support etc. including benefits to the staff employed in the project.
- While providing operational flexibility among various subheads under head Recurring A, it should be ensured that not more than Rs. 1.5 lakh each should be spent for travel and contingency.
- As per rule 211 of GFR, the accounts of project shall be open to inspection by sanctioning authority/s and wherever the institute is called upon to do so.
- The sanctioned equipment would be procured as per GFR and its disposal of the same would be done with prior approval of SERB.
- The release amount of Rs. 700000/- (Rupees Seven Lakh only) will be drawn by the Order Secretary of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:

Account Name	TCE DRDL PROJECT AC
Account Number	60101905855
Bank Name & Branch	ICICI BANK LTD ICICI BANK LTD,
IFSC/RTGS Code	ICIC0003563
Email id of A/C Holder	principal@tce.edu
Email id of PI	sebandran@tce.edu



**THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI-15**  
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**- where Quality and Ethics matter**



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**ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**  
Nelson Mandela Marg, Vasant Kunj,  
New Delhi-110067.

Ref. No.: File No. 8-22/RIFD/RPS/POLICY-1/2016-17 Date: 2 August 2017

**The Drawing and Disbursing Officer**  
All India Council for Technical Education  
Nelson Mandela Marg,  
Vasant Kunj, New Delhi-110067.

**Sub:** Release of a sum of Rs.1668706/- being the 1<sup>st</sup> installment of the total grant of Rs.1694118/- for conduct of Project under Research Promotion Scheme (RPS) during the financial year 2017-18.

Sir,

With reference to the Proposal submitted by the institute, this is to convey the sanction of the Council for payment of Rs.1668706/- (Rupees Sixteen Lakh Sixty Eight Thousand Seven Hundred Six) as 1<sup>st</sup> installment out of a total approved grant-in-aid of Rs 1694118/- for conduct of a Project under the Research Promotion Scheme (RPS), as per details given below:-

I. Name of the Beneficiary Institution (University / College / Institution)	:	THIAGARAJAR COLLEGE OF ENGINEERING TIRUPARANKUNDRAM, MADURAI, TAMIL NADU-625015
II. Principal Investigator's Name & Dept./Course	:	Dr. KANTHAMANIS ELECTRONICS AND COMMUNICATIONS ENGINEERING
III. Grant-in-aid Sanctioned	:	Rs.1694118/- (Rs. 1440000/- for non-recurring and Rs.254118/- for recurring expenditure)
IV. Amount to be Released during the year 2017-18	:	Rs.1668706/- (Full amount of non recurring & 90 % of recurring sanctioned)
V. Duration	:	3 Years
VI. Title of the Project	:	ANALYSIS AND DEVELOPMENT OF DESIGN DATA FOR RF MEMS PHASE SHIFTERS FOR PHASED ARRAYS

1. The sanctioned grant-in-aid is debitable to the major "60.1(a) (RPS)" Gen. and is valid for Payment during the financial year 2017-18.
2. The grant-in-aid of the grant shall be drawn by the Drawing and Disbursing Officer (DDO), All India Council for Technical Education, New Delhi on the Grants-in-aid bill and shall be disbursed to and credited to the account of THIAGARAJAR COLLEGE OF ENGINEERING, TIRUPARANKUNDRAM, MADURAI, TAMIL NADU-625015 through RTGS.
3. The date of release of the grant by AICTE shall be taken as the date of commencement of the project. The Principal/Director/Registrar shall intimate about the receipt of the grant to AICTE. Any Expenditure incurred prior to issuance of this Sanction Order, is not allowed to be adjusted in the grant and if the University/Institution do not take the project work within 6 months of the receipt of the grant, approval shall ipso facto lapse.

Contd...2/-



**THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI-15**  
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**ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**  
Nelson Mandela Marg, Vasant Kunj,  
New Delhi-110067.

Ref. No.: File No. B-25/RFD/RPS/POLICY-1/2016-17 Date: 2 August 2017

The Drawing and Disbursing Officer  
All India Council for Technical Education  
Nelson Mandela Marg,  
Vasant Kunj, New Delhi-110067.

Subj: Release of a sum of Rs.1576000/- being the 1<sup>st</sup> installment of the total grant of Rs.1600000/- for conduct of Project under Research Promotion Scheme (RPS) during the financial year 2017-18.

Sr.

With reference to the Proposal submitted by the institute, this is to convey the sanction of the Council for payment of Rs.1576000/- (Rupees Fifteen Lakh Seventy Six Thousand) as 1<sup>st</sup> installment out of a total approved grant-in-aid of Rs.1600000/- for conduct of a Project under the Research Promotion Scheme (RPS), as per details given below:-

I. Name of the Beneficiary Institution (University / College / Institution)	: THIAGARAJAR COLLEGE OF ENGINEERING TIRUPARANKUNDRAM, MADURAI, TAMIL NADU-625015
II. Principal Investigator's Name & Dept./Course	: DR. BALAMURUGAN N B ELECTRONICS AND COMMUNICATIONS ENGINEERING
III. Grant-in-aid Sanctioned	: Rs.1600000/- (Rs.1360000/- for non-recurring and Rs.240000/- for recurring expenditure)
IV. Amount to be Released during the year 2017-18	: Rs.1576000/- (Full amount of non recurring & 90 % of recurring sanctioned)
V. Duration	: 3 Years
VI. Title of the Project	: MODELING AND SIMULATION OF HIGH ELECTRON MOBILITY TRANSISTORS (HEMT'S) FOR HIGH FREQUENCY CMOS APPLICATIONS

1. The sanctioned grant-in-aid is debitible to the major "601.1(a) (RPS)" item and is valid for Payment during the financial year 2017-18.
2. The grant-in-aid of the grant shall be drawn by the Drawing and Disbursing Officer (DDO), All India Council for Technical Education, New Delhi on the Grants-in-aid bill and shall be disbursed to and credited to the account of THIAGARAJAR COLLEGE OF ENGINEERING, TIRUPARANKUNDRAM, MADURAI, TAMIL NADU-625015 through RTGS.
3. The date of release of the grant by AICTE shall be taken as the date of commencement of the project. The Principal/Director/Registrar shall intimate about the receipt of the grant to AICTE. Any Expenditure incurred prior to issuance of this Sanction Order, is not allowed to be adjusted in the grant and if the University/Institution do not take the project work within 6 months of the receipt of the grant, approval shall ipso facto lapse.

Contd., 2/-





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(15)

**ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**  
Nelson Mandela Marg, Vasant Kunj,  
New Delhi-110067,

Ref. No. File No. B-21/RIFD/RPS/POLICY-1/2016-17 Date: 2 August 2017

**The Drawing and Disbursing Officer**  
All India Council for Technical Education  
Nelson Mandela Marg,  
Vasant Kunj, New Delhi-110067,

**Sub:** Release of a sum of Rs.1321058/- being the 1<sup>st</sup> installment of the total grant of Rs.1341176/- for conduct of Project under Research Promotion Scheme (RPS) during the financial year 2017-18.

Sir,

With reference to the proposal submitted by the institute, this is to convey the sanction of the Council for payment of Rs.1321058/- (Rupees **Thirteen Lakh Twenty One Thousand Fifty Eight**) as 1<sup>st</sup> installment out of a total approved grant-in-aid of Rs.1341176/- for conduct of a Project under the Research Promotion Scheme (RPS), as per details given below:-

I. Name of the Beneficiary Institution (University / College / Institution)	: THIAGARAJAR COLLEGE OF ENGINEERING TIRUFARANKUNDRAM, MADURAI, TAMIL NADU-625015
II. Principal Investigator's Name & Dep./Course	: Dr. HARIHARAN K ELECTRONICS AND COMMUNICATIONS ENGINEERING
III. Grant-in-aid Sanctioned	: Rs.1341176/- (Rs. 1140000/- for non-recurring and Rs.201176/- for recurring expenditure)
IV. Amount to be Released during the year 2017-18	: Rs.1321058/- (Full amount of non recurring & 90 % of recurring sanctioned)
V. Duration	: 3 Years
VI. Title of the Project	: DESIGN AND DEVELOPMENT OF A MIXED SIGNAL TEST BENCH TO THE RESEARCHER FOR NONLINEARITY TESTING OF ANALOG TO DIGITAL CONVERTERS UNDER DYNAMIC CHARACTERISTIC

- The sanctioned grant-in-aid is debitable to the major "001.1(a) (RPS)" Gen. and is valid for payment during the financial year 2017-18.
- The grant-in-aid of the grant shall be drawn by the Drawing and Disbursing Officer (DDO), All India Council for Technical Education, New Delhi on the Grants-in-aid bill and shall be disbursed to and credited to the account of **THIAGARAJAR COLLEGE OF ENGINEERING, TIRUFARANKUNDRAM, MADURAI, TAMIL NADU-625015** through RTGS.
- The date of release of the grant by AICTE shall be taken as the date of commencement of the project. The **Principal/Director/Registrar** shall intimate about the receipt of the grant to AICTE. Any Expenditure incurred prior to issuance of this Sanction Order, is not allowed to be adjusted in the grant and if the University/Institution do not take the project work within 6 months of the receipt of the grant, approval shall ipso facto lapse.

Coctd. 2/-



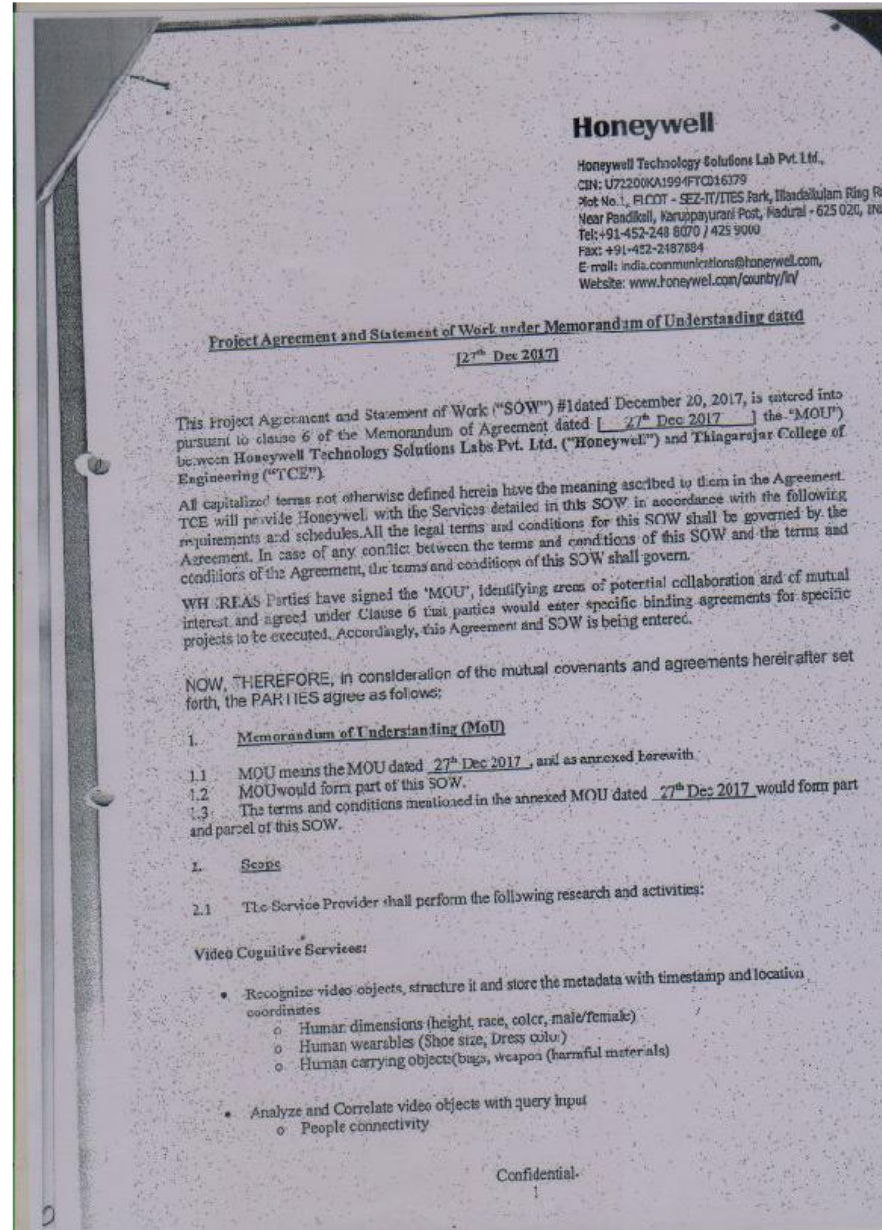
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7/24/2017

The Electronic Project Proposal Management System, For SERB

FILE NO. ECR/2017/000827

**SCIENCE & ENGINEERING RESEARCH BOARD(SERB)**

(a statutory body of the Department of Science & Technology, government of India)

5 & 5A, Lower Ground Floor  
Vasant Square Mall  
Plot No. A, Community Centre  
Sector-B, Pocket-5, Vasant Kunj  
New Delhi-11007J

Dated: 13-Jul-2017

**ORDER**

Subject: Financial Sanction of the research project titled "**Design of Neural Network Based New Demand Side Management System for Educational Institutions**" under the guidance of Dr. S Charles Raja, Electrical and Electronics Engg, Thiagarajar College of Engg, Madurai, Madurai, Tamil nadu-625015 - Release of 1st grant.

Sanction of Science and Engineering Research Board (SERB) is hereby accorded to the above mentioned project at a total cost of Rs. 3022380/- (Rs. Thirty Lakh Twenty Two Thousand Three Hundred and Eighty Only) with break-up of Rs. 1451620/- under Capital (Non-recurring) head and Rs.1570760/- under General (Recurring) head for a duration of 36 months. The items of expenditure for which the total allocation of Rs. 3022380/- has been approved are given below:

The following budget may be considered for Thiagarajar College Of Engg, Madurai

S. No	Head	Total (in Rs.)
<b>A</b>	<b>Non-recurring</b>	
1	Equipment -> Recurring charges- GPRS -> 1 -phase 2 Wire whole current meters 5-30A as per IS 13779 class 1.0(Built in PLC Modem) -> Meter Boxes -> Head End System Software along with Installation of Metering Infrastructure -> Data Concentrators -IT Whole current Meters -> Data Concentrators -PLCGPRS -> 3-phase whole current meters 10- 60A as per IS 13779 class 1.0 (Built in PLC Modem) -> Installation and commissioning of Metering Infrastructure -> 3-phase LT CT meters for Distribution Transformer as per IS 14697 class 0.5S -> Solar Package (1KW)	1451620
A'	<b>Total (Non-Recurring)</b>	<b>1451620</b>
<b>B</b>	<b>Recurring Items</b>	
1	Recurring - A : ( Manpower, Consumables, Travel, Contingencies)	1296000
2	Recurring - B : (Overhead Charges)	274760
B'	<b>Total (Recurring)</b>	<b>1570760</b>
C	<b>Total cost of the project (A' + B')</b>	<b>3022380</b>

- Sanction of the SERB is also accorded to the payment of Rs. 1451620/- (Rupees Fourteen Lakh Fifty One Thousand Six Hundred and Twenty only) under 'Grants for creation of capital assets' and Rs. 523580/- (Rupees Five Lakh Twenty Three Thousand Five Hundred and Eighty only) under 'Grants-in-aid General' to Principal, Thiagarajar College Of Engg, Madurai being the first installment of the grant for the year 2017-2018 for implementation of the said research project.
- The expenditure involved is debitible to Fund for Science & Engineering Research (FSER)  
**This release is being made under Early Career Research Award. (EC Engineering Sciences)**
- The Sanction has been issued to Thiagarajar College Of Engg, Madurai with the approval of the competent authority under delegated powers on 10 July, 2017 and vide Diary No. SERB/F/2839/2017-2018 dated 12 July, 2017
- Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website ([www.serb.gov.in](http://www.serb.gov.in)).



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 **UGC-DAE Consortium for Scientific Research**  
विश्वविद्यालय अनुदान आयोग – परमाणु ऊर्जा विभाग वैज्ञानिक अनुसंधान संकुल  
(An autonomous institution of UGC, New Delhi)  
(विश्वविद्यालय अनुदान आयोग, नई दिल्ली द्वारा स्थापित स्वायत्त संस्थान)  
(Formerly Inter University Consortium for DAE Facilities, IUC-DAEF)

**Indore Centre**  
केंद्र निदेशक

**Dr. V. Ganesan**  
Centre-Director

Ref: CSR-IC-240/2017-18/ 132-1 31 March 2018

Dr. M. Mahendran  
Associate Professor, Dept. of Physics,  
Thiagarajar College of Engineering,  
Madurai-625015, TN

Sub: Your proposal entitled "Porosity dependent structure and magnetic properties of polycrystalline ferro-magnetic shape memory alloys foams."

Dear Dr. Mahendran,

We would like to thank you for visiting Pune for presenting your CRS proposal during March 20-21, 2018. Subsequently the proposals were discussed at length by a Committee. Your above proposal has been approved:

The financial allocation for this year will be:

**Project Fellow (@ Rs.14,000/- pm) + HRA	Rs. 1,68,000/- + HRA
Contingency	Rs. 15,000/-
Consumables	Rs.30,000/-

No overheads are available under this scheme.

\*\* If the selected student has M.Sc., with GATE/NET JRF, then Project Associate-1 may be given (@ Rs.25,000/- pm)+ HRA for which additional prior approval has to be taken from the Centre Director, Indore Centre.

1. This project is sanctioned presently for one year but it may be extended on year basis subject to a total period of three years.
2. Dr. V. Ganesan will coordinate the activities of the project from CSR side.
3. Selection of research student in the project will be done as per the guidelines enclosed. The PI may contact Centre-Director of Indore Centre for approving the CSR Nominee for the selection of the candidate.
4. Ph.D. student appointed under the project is expected to spent at least 3 months in a year at the Consortium, if needed.
5. The major portion of the emerging thesis of respective Ph.D. student should be centered around and contain the results from Consortium.
6. This is a Collaborative Research Scheme. In view of the complex and involved nature of the experiments, any publication emerging under the project must be of collaborative in nature with due consents from the participating institutions / persons, and in consultation with the CRS coordinator. The publication should also acknowledge the UGC-DAE CSR, Indore for the project support.

.....Contd.....2

विश्वविद्यालय परिसर, खण्डवा रोड, इन्दौर-452 001 (म.प्र.)  
University Campus, Khardwa Road, INDORE - 452 001 (M.P.), INDIA  
Phone +91-731-2472200, 2909150 - Direct, PBX- 2463913, 2782267, 2472201 Exnt: 152 311  
Fax +91-731-2465437; e-mail: v.ganesan@csr.res.in; indore@csr.res.in  
www.csr.res.in



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अन्तरिक्ष विभाग  
भारत सरकार  
अन्तरिक्ष भवन  
न्यू बी ई एल रोड, बेंगलूर - 560 231, भारत  
दूरभाष : +91 80 2341 5474  
फैक्स :



Indian Space Research Organisation  
Department of Space  
Government of India  
Antariksh Bhavan  
New BEL Road, Bangalore - 560 231, India  
Telephone : +91 80 2341 5474  
Fax :

Dr. M A Paul  
Dy. Director, RESPOND

☎: 080-23415269/22172269  
FAX-080-23412471  
email:ddrespond@isro.gov.in

ISRO/RES/Hackathon/2017-18

February 02, 2018

Dear Sir,

**Subject:** ISRO- Financial support for project proposal titled "**Multi-factor authentication add-on for Open VPN**" as part of post Hackathon 2017 activities -reg.

This has reference to the above mentioned project submitted by the team "**Defenders**" of your College under "**Smart India Hackathon-2017**". As you must be aware, "Smart India Hackathon -2017" is an initiative of MHRD along with AICTE which aims at harnessing the creativity and talent of large number of students of all the Engineering Colleges.

As part of the competition held during "Smart India Hackathon- 2017" at Space Application Centre, Ahmedabad; ISRO/DOS jury has selected the Top five projects with six months duration including the project by the team "**Defenders**" of your college to take up further for full fledged implementation. For each identified project, a focal point has been identified from the respective ISRO Centre for further coordination.

In this regard, I wish to inform you that Chairman, ISRO/Secretary, DOS has approved the following:

1. Funding of the project for a period of six months at a total outlay of **₹3.00 Lakhs (Rupees Three Lakh only)** towards meeting the expenditure of the project as per the project proposal.
2. Release of grant of **₹3.00 Lakhs (Rupees Three Lakh only)** towards meeting the expenditure of the project.

The approval is subject to fulfillment of the following:



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No. IIPPND/11/2016/General  
 Government of India  
 Ministry of Science & Technology  
 Department of Science & Technology

Technology Bhawan  
 New Mehrauli Road  
 New Delhi - 110 016  
 Date: 03.10.2016

ORDER

Subject: Financial assistance for the project entitled "Development of Micro-channels based personal cooling system for fire fighters submitted by G. Kumaraguruparan, PhD, Department of Mechanical Engineering, Thiagarajar College of Engineering, Thiruparamkondiam, Madurai-625015, Tamil Nadu.

Sanction of the President is conveyed for the sanction of ₹.31,13,200/- (Rupees Thirty One Lakh Thirteen Thousand Two Hundred only) to an amount of ₹.15,00,000/- (Rupees Fifteen Lakhs only) would be under the "Creation of Capital Assets" head and an amount of ₹.16,13,200/- (Rupees Sixteen Lakh Thirteen Thousand Two Hundred only) would be towards the "Grant in Aid General" head for a duration of 36 months. The item of expenditure for which the total allocation of ₹.31,13,200/- has been approved for a period of 36 months are given below:

**A. Non-recurring (Capital Items)**  
**HEAD**

HEAD	1 <sup>st</sup> year DST	Total
<b>EQUIPMENTS</b> Evaporator, Condenser, Compressor, Expansion device, Battery, Internal heat exchanger, Refrigerant Filling test facility, Steady state cooling evaluation facility, Sweating manikin facility.	₹. 15,00,000/-	₹. 15,00,000/-
<b>Total Capital</b>		₹. 15,00,000/-

**B. Recurring Items (General)**

Sl.No	Item	1 <sup>st</sup> Year	2 <sup>nd</sup> Year	3 <sup>rd</sup> Year	Total
1	<b>MANPOWER</b>				
	1. JRF-10@15,000/-20%HRA for 1 <sup>st</sup> two years, SRF @ Rs28,000/- 20%HRA for the third year	360000	360000	403200	1123200
2	<b>Contingencies</b>	25000	25000	25000	75000
3	<b>Travel</b>	20000	20000	20000	60000
4	<b>Contingency</b>	25000	25000	25000	75000
5	<b>Overheads</b>	190000	43000	47000	280000
	<b>Grand Total DST Contribution</b>	620000	473000	520200	1613200

3. The overhead expenses are meant for the host institute towards the cost for providing infrastructural facilities and benefits to the staff employed in the project etc.

4. Sanction of the President is accorded for the payment of ₹.6,20,000/- (Rupees Six Lakh Twenty Thousand only) towards the DST contribution.





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**BY FAX / REGISTERED POST**

NO.RCI/DCMM/LPD/CARS - 377  
Research & Development Organization (MODI)  
RESEARCH CENTRE IMARAT  
HYDERABAD - 500 069  
Phone: 040 - 24306222  
Fax : 040 - 24306013

DI: 10<sup>th</sup> NOV, 2015



To

THE PRINCIPAL,  
THIAGARAJAR COLLEGE OF ENGINEERING,  
(A Govt. Aided Autonomous Institution Affiliated to Anna University)  
MADURAI - 625 015.

Kind Attn: Sri . Dr.Abhai Kumar, Principal.

Fax:0452 - 2403427  
Email: principal@tce.edu

Sub:- Design and Development of an Integrated Multiband Antenna for Interoperable Navigational applications.

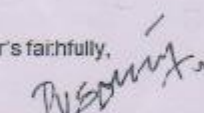
Ref:- Our CARS Project No.RCI/DCMM/LPD-1/CARS - 0377, Dated: 22.09.2016.

Dear Sir,

1. Please refer to our CARS Project cited above.
2. You are requested to submit the following documents:-
  - a) Income Tax Exemption Certificate
  - b) Copy of PAN Card.
3. The above documents may please be submitted at the earliest, enabling us to process the case further.

Thanking you,

Your's faithfully,

  
(P V S DAKSHINAMURTHY),



**THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI-15**  
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FD Diary No. : **418**  
Dated : **29.05.2017**



**UNIVERSITY GRANTS COMMISSION**  
(SELECTION & AWARDS BUREAU)  
BAHADUR SHAH ZAFAR MARG,  
NEW DELHI-110002.

No. F. 30-39/2016 (SA-II)

June, 2017

The Under Secretary (FD-III)  
University Grants Commission  
Bahadurshah Zafar Marg,  
New Delhi – 110002.

15 JUN 2017

**Subject:** Release of Grants-in-aid to **Thiagarajar College of Engineering, Madurai-625015, Tamil Nadu** in respect of **Dr. P.S.Manoharan**, Research Awardee, Department of **Electrical & Electronics Engineering** towards Salary & Research Grant for the year 2016-17 under Revenue.

Sir,

I am directed to convey the sanction of the University Grants Commission for payment of grant of **Rs. 11,65,842/- (Rupees Eleven Lakh Sixty Five Thousand Eight Hundred Forty Two Only)** as 1<sup>st</sup> year grant for the year 2016-17 towards **Salary & Research Grant** to the Principal, **Thiagarajar College of Engineering, Madurai-625015, Tamil Nadu** for the Revenue expenditure to be incurred during 2017-18.

Name of the Item (1)	Period (2)	Head of A/c (3)	Grant now being sanctioned (4)	Grant already sanctioned (5)	Total grant. (Col. 4+Col. 5) (6)
Estimated Salary	01.07.2016	3(A)(67) 31	Rs. 10,15,842/-	---	Rs. 10,15,842/-
Research Grant	to 30.06.2017	Revenue	Rs. 1,50,000/-	---	Rs. 1,50,000/-
<b>Total</b>			<b>Rs. 11,65,842/-</b>	---	<b>Rs. 11,65,842/-</b>

2. The sanctioned amount is debitable to **Major Head 3(A)(67) 31 Revenue** and is valid for payment during the financial year 2017-18 only under the scheme of Research Award (SA-II).

3. The amount of the grant shall be drawn by the Under Secretary (Drawing and Disbursing Officer) UGC on the Grants-in-aid bill and shall be disbursed to and credited to the Principal, **Thiagarajar College of Engineering, Madurai-625015, Tamil Nadu** through Electronic mode as per the following details:

a. Details (Name & Address) of Account Holder	Principal, Thiagarajar College of Engineering, Madurai-625015, Tamil Nadu
b. Account No.	601301905856



**THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI-15**  
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Thiagarajar College of Engineering Mail - RTGS/NEFT UTR/ TRAN... <https://mail.google.com/mail/u/1/?ui=2&ik=7f30373e92&view=pt&sc...>



Dr Manickam Mahendran <manickam-mahendran@tce.edu>

**RTGS/NEFT UTR/ TRANS No. UBINH17074501459 / SAA256678069 -- File No. EMR/2016/000781**

1 message

SERB\_Administrator@serbonline.in <SERB\_Administrator@serbonline.in>

Thu, Apr 27, 2017 at 11:05 AM

To: "info@serbonline.in"@msva02.cdacnoida.in



**Science and Engineering Research Board**  
(Statutory Body Established Through an Act of Parliament : SERB Act 2008)  
Department of Science and Technology, Government of India

Dear Sir/Madam,

I am directed to refer to Science & Engineering Research Board (SERB) sanction order no **EMR/2016 /000781** dated **20 February, 2017** and forward here with the following for information and necessary action:

RTGS/NEFT UTR/Transaction no.:UBINH17074501459 / SAA256678069 dated 15 March, 2017.  
Rs 1744660/- (Seventeen Lakh Forty Four Thousand Six Hundred and Sixty) transferred to A/c No. : 601301905856 , Bank Name/Branch : ICICI BANK ,THIAGARAJAR COLLEGE OF ENGINEERING SERB/F/8680/2016-17

CONFIRMATION OF RECEIPT OF GRANTS MAY KINDLY BE SENT BY EMAIL ONLY.SEPARATE Utilization Certificates (UCs) for Recurring and Non-Recurring Grants (even if DISBURSED BY SERB THROUGH ONE SANCTION ORDER for your project) should be uploaded online within twelve months of the closure of the financial year in which the grants were released irrespective of whether the subsequent installment of grant is due for release or not However, if any unspent balance is to be refunded, kindly ensure that the un-utilized amount may be refunded immediately by way of an a/c payee cheque/DD drawn in favour of "Fund for Science & Engineering Research", payable at New Delhi and forwarded to the undersigned at the address given below  
The Finance & Budget Officer  
Science & Engineering Research Board (SERB)  
5 & 5A, Lower Ground Floor, Vasant Square Mall,  
Vasant Kunj, New Delhi 110070

\*\*\*\*\* LEGAL DISCLAIMER \*\*\*\*\*


[ SERB is now on Social-Media. Kindly follow us on Twitter: @serbonline <https://www.twitter.com/serbonline>]

This is a system generated information and does not require any signature. This E-Mail may contain Confidential and/or legally privileged information and is meant for the intended recipient(s) only. If you have received this e-mail in error and are not the intended recipient/s, kindly notify us at [info@serbonline.in](mailto:info@serbonline.in) and then delete this e-mail immediately from your system. Any unauthorized review, use, disclosure, dissemination, forwarding, printing or copying of this email or any action taken in reliance on this e-mail is strictly prohibited and may be unlawful. Internet communications cannot be guaranteed to be timely, secure, error or virus-free. The sender does not accept any liability for any errors, omissions, viruses or computer problems experienced by any recipient as a result of this e-mail.



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**UGC-DAE Consortium For Scientific Research**  
विश्वविद्यालय अनुदान आयोग - परमाणु ऊर्जा विभाग वैज्ञानिक अनुसंधान संकुल  
(An autonomous institution of UGC, New Delhi)  
(विश्वविद्यालय अनुदान आयोग - नई दिल्ली द्वारा स्थापित स्वशासी संस्थान)  
(Formerly : Inter University Consortium for DAE Facilities : IUC-DAEF)

Mumbai Centre  
मुंबई केन्द्र

Ref: UDCSR/MUM/CD/CRS-M-259/2017/ 1032 Dt. 18 January 2017

To,  
Dr. M. Mahendran  
Associate Professor  
Thiagarajar College of Engineering  
Madurai - 625015, Tamil Nadu.

Sub: Sanction of Collaborative Research Scheme titled "Magnetic and Structural Properties of Co and Fe substituted Ni-Mn-Sb using Neutron Diffraction and First principles Calculations" (CRS-M-259)

Dear Dr. Mahendran,

We are happy to inform you that following the Project Review Meeting held on 18.10.2016 at Mumbai, your above Collaborative Research Scheme (CRS) project has been sanctioned. Presently the project is sanctioned for one year w.e.f 1<sup>st</sup> January, 2017, but it may be extended after a review every year, subject to a total period of three years. The financial sanctions for the year 2017 are as follows:

Sl. No.	Head	Amount sanctioned for current year (01.01.2017 - 31.12.2017)
1.	Scholarship / Fellowship	(*)
2.	Chemicals/Consumables	30,000.00
3.	Contingency	15,000.00
	<b>Total</b>	<b>45,000.00</b>

Note: No overheads are available under this scheme

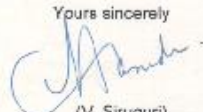
(\*) Funds under scholarship will be transferred after appointment of student as per the Guidelines of UGC DAE CSR.

*Guidelines regarding implementation of the CRS, Review, Appointment of Project fellow, Travel support to the PI or Student to visit BARC for performing experiments, etc. are enclosed herewith.*

Dr. A. K. Rajarajan, Solid State Physics Division, BARC, Trombay Mumbai (Email: rajrak@barc.gov.in), will be your Principal Collaborator (PC) for the above scheme. You may contact him for Implementation of the scheme.

Please send us your acceptance letter by 30.01.2017. On receipt of your acceptance letter, financial grant for CRS will be sent through NEFT/ RTGS (kindly provide details in the enclosed format along with the acceptance letter) to the Registrar/Financial Authority of your Institute.

Thanking you,

Yours sincerely  
  
(V. Siruguri)

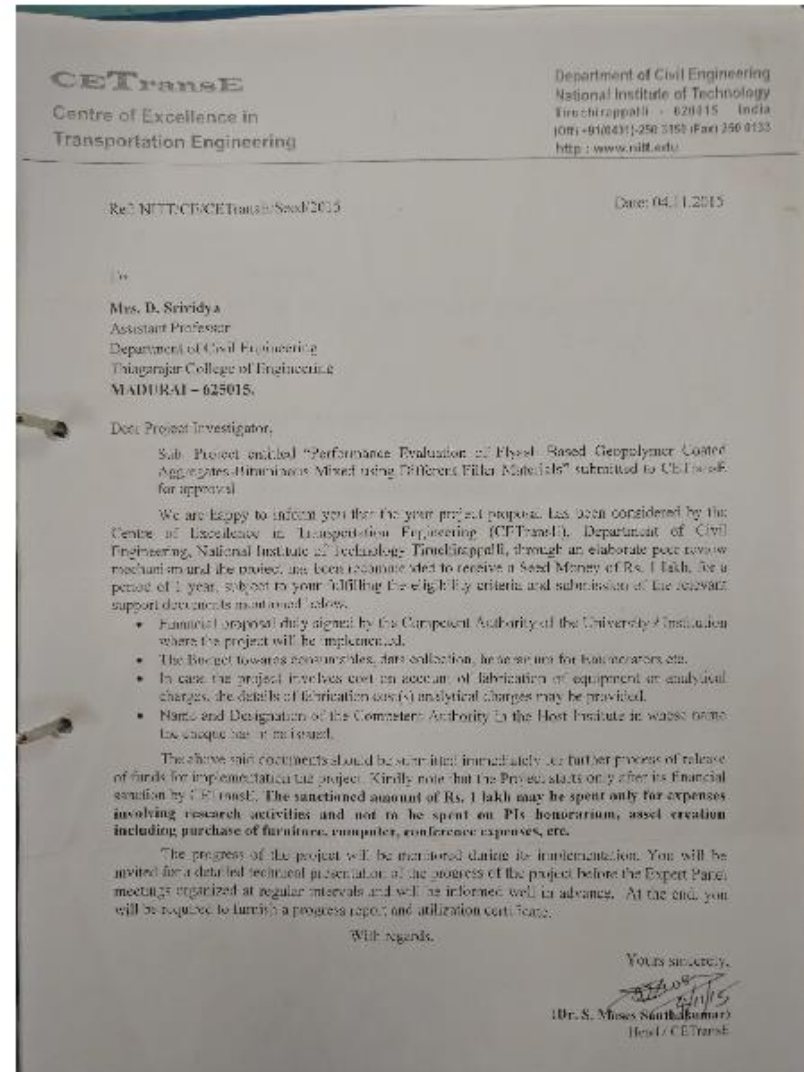
Encl: As stated

Copy to,

1. Registrar, Thiagarajar College of Engineering, Madurai - 625015, Tamil Nadu
2. Head, Solid State Physics Division, BARC, Trombay, Mumbai-400 085.
3. Director, UGC-DAE CSR, Univ. Campus, Khandwa Road, Indore-452 017.
4. Dr. A. K. Rajarajan, SSPD, BARC, Trombay, Mumbai-400 085.



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UNIVERSITY GRANTS COMMISSION  
 RAHADURSHAH ZAFAR MARG  
 NEW DELHI-110002

FD Dirsy No. - 3611  
 Dated - 11.09.2015

F No. - 41 144/2014(SR)

2015-16  
 Dated - Sep, 2015

**MRP-MAJOR-MECH-2013-15169**  
 (OBC)

The Under Secretary (FDI),  
 University Grants Commission,  
 Bahadur Shah Zafar Marg,  
 New Delhi-110002

Subj: Release of Grants-in-aid to **THIAGARAJA COLLEGE OF ENGINEERING, THIRUPARANGUNDRAM MADURAI-625015 TAMILNADU** for the year 2015-16, under Plan in respect of Major Research Project entitled "INVESTIGATION OF FLOW.....HPAT SINKS " awarded to Dr. G.Kumaraguruvaran, Department of MECHANICAL ENGINEERING, Tenure of project for 3 year(s) w.e.f. 01/07/2015


Whereas, the Commission has been pleased to grant to the said college the sum of Rs. 11,05,000/- (Rs. ELEVEN LAKHS FIVE THOUSAND ONLY) as 1st instalment for the years 2015-16 towards Major Research Project to the PRINCIPAL, THIAGARAJA COLLEGE OF ENGINEERING, THIRUPARANGUNDRAM MADURAI-625015 TAMILNADU for the Plan expenditure to be incurred during 2015-16

S. No.	Items	Head of Account	Amount Approved(Rs.)	Grant being Released as 1st Instalment(Rs.)	Grant Already Released(Rs.)	Total Grant(Rs.)
<b>A. Non-Recurring</b>						
1.	Books & Journals	MA.49(a).35	Rs. 50,000/-	Rs. 50,000/-	-	Rs. 50,000/-
2.	Equipment	"	Rs. 5,50,000/-	Rs. 5,50,000/-	-	Rs. 5,50,000/-
<b>B. Recurring</b>						
	Honarium to Post. Teacher @ Rs. 18,000/- p.m.		Rs. 0/-	Rs. 0/-	-	Rs. 0/-
	a. Project Fellow (Non-Grant/Non-NET) @ Rs. 14,000/- p.m. b. Project Fellow (Grant/NET/OPAT) @ Rs. 16,000/- p.m. Tenure - 3 year(s)		Rs. 6,00,000/-	Rs. 3,00,000/-	-	Rs. 3,00,000/-
3.	Chemical/Glassware/Consumable (Raw Material & Packaging Material etc.)	MA.19(a).31	Rs. 1,00,000/-	Rs. 50,000/-	-	Rs. 50,000/-
4.	Contingency		Rs. 50,000/-	Rs. 25,000/-	-	Rs. 25,000/-
5.	Hiring Services		Rs. 50,000/-	Rs. 25,000/-	-	Rs. 25,000/-
6.	Travel / Field Work		Rs. 50,000/-	Rs. 25,000/-	-	Rs. 25,000/-
7.	Any Other		Rs. 0/-	Rs. 0/-	-	Rs. 0/-
8.	Overhead Charges (10% of approved recurring Grant (Except Travel & Field Work)		Rs. 80,000/-	Rs. 80,000/-	-	Rs. 80,000/-
<b>Total (A + B)</b>			<b>Rs. 15,50,000/-</b>	<b>Rs. 11,05,000/-</b>		<b>Rs. 11,05,000/-</b>



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GOVERNMENT OF INDIA  
RESEARCH CENTRE IMARAT  
DRDO, Ministry of Defence  
Vignyanakantha P.O.  
HYDRABAD-500 069  
☎ Tel: 040-24306000/63001  
☎ Fax: 040-24306002

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NO.RCI/DRSS/COMMITTEES/GEN15 Dated : 03/05/2016

**SUBJECT: FORMATION OF REVIEW COMMITTEE**

Ref : CARS Project No RCI/DCMM/IPD/CARS-0357 Dtd. 23/12/2015

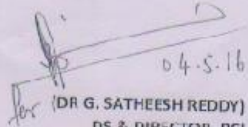
Following Committee is being formed to review the CARS project titled "Design of W-Band LNA in 130 nm SiGe process" given to Thiagarajar College of Engineering, Madurai".

(1) Shri A.N. Das, Sc 'G',RCI	Chairman
(2) Shri R.S.V. Prasad, Sc 'G', RCI	Member
(3) Dr. S. Anrudhar, IIT Chennai	Member
(4) Shri Yogesh Kumar Verma, Sc F, RCI	Member
(5) Shri T.S. Rashad, Sc 'E', RCI	Member
(6) Manish Kumar, Sc 'C'	Member Secretary

**Terms of Reference:**

- (a) To periodically review the project as per the milestones
- (b) To recommend the release of payment as per the milestones

The Chairman may co-opt for any other member if required.

  
04.5.16  
**(DR G. SATHEESH REDDY)**  
DS & DIRECTOR, RCI


Distribution : As above

**श्री. एन.डी. गौगल / Dr. D.D. GAOGAL**  
व्यक्तिगत 'एन' / व्यक्तिगत वैज्ञानिक  
श्रेणी 'H' / OUTSTANDING SCIENTIST  
प्रधान निदेशक / OFFICIATING DIRECTOR  
भारत, भारत, हैदराबाद (RCI, Hyderabad-500062).



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UNIVERSITY GRANTS COMMISSION  
BAHADURSHAH ZAFAR MARG  
NEW DELHI-110002

FD Diary No. - 2786  
Dated - 07.08.2015

F No. - 43-339/2014/SK)

Dated: 11 SEP 2015

**MRP-MAJOR-ENY1-2013-38689**  
(GENERAL)

The Under Secretary (EDII),  
University Grants Commission,  
Bahadur Shah Zafar Marg,  
New Delhi-110002.

Sub. - Release of Grants-in-aid to Thiagarajar College of Engineering, Thirupparankundram, Madurai (TN) for the year 2015-16 under Plan in respect of Major Research Project entitled 'THERMAL.....REGION' awarded to Dr. A.madhumathi, Department of Architecture, Tenure of project for 3 year(s) w.e.f. 01/07/2015.

Sir/Madam,

I am directed to convey the approval sanction of the University Grants Commission for payment of grant of Rs. 10,50,000/- (Rupees: TEN LAKHS FIFTY THOUSAND ONLY) as 1st instalment for the years 2015-16 towards Major Research Project in the PRINCIPAL, Thiagarajar College of Engineering, Thirupparankundram, Madurai (TN) for the Plan expenditure to be incurred during 2015-16

S. No.	Items	Head of Account	Amount Approved(Rs.)	Grant being Released as 1st Installment(Rs.)	Grant Already Released(Rs.)	Total Grant(Rs.)
A.	<b>Non-Recurring</b>					
1.	Books & Journals	4(A) 49(a).35	Rs. 0/-	Rs. 0/-	-	Rs. 0/-
2.	Equipment		Rs. 6,00,000/-	Rs. 6,00,000/-	-	Rs. 6,00,000/-
B.	<b>Recurring</b>					
1.	Honorium to Retd. Teacher @ Rs. 18,000/- p.m		Rs. 0/-	Rs. 0/-	-	Rs. 0/-
2.	a. Project Fellow (Non-Gate/Non-NET) @ Rs. 14,000/- p.m. h. Project Fellow (Gate/NET/GPAT) @ Rs. 16,000/- p.m Tenure - 3 year(s)		Rs. 6,00,000/-	Rs. 3,00,000/-	-	Rs. 3,00,000/-
3.	Chemical/Glassware/Consumable (Raw Material & Packaging Material etc.)	3(A).49(h).31	Rs. 0/-	Rs. 0/-	-	Rs. 0/-
4.	Contingency		Rs. 1,00,000/-	Rs. 50,000/-	-	Rs. 50,000/-
5.	Hiring Services		Rs. 0/-	Rs. 0/-	-	Rs. 0/-
6.	Travel / Field Work		Rs. 50,000/-	Rs. 30,000/-	-	Rs. 30,000/-
7.	Any Other		Rs. 0/-	Rs. 0/-	-	Rs. 0/-
8.	Overhead Charges 10% of approved recurring Grant (Except Travel & Field Work)		Rs. 70,000/-	Rs. 70,000/-	-	Rs. 70,000/-
	<b>Total (A + B)</b>		<b>Rs. 14,30,000/-</b>	<b>Rs. 10,50,000/-</b>		<b>Rs. 10,50,000/-</b>





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F.No.W-15014/3/2015-SBM  
Government of India  
Ministry of Drinking Water & Sanitation  
Swachh Bharat Mission Division

12<sup>th</sup> Floor, Paryavaran Bhavan  
CGO Complex, Lodi Road,  
New Delhi-110 003, the 14<sup>th</sup> August, 2015  
Ph: 011- 24363747, Fax: 24361062, Email: [bala.g@nic.in](mailto:bala.g@nic.in)

To

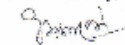
Dr. R Vasudevan  
TCE, Madurai,  
Tamil Nadu

Subject: Research Project Proposal – A study on the construction of low cost hygienic rural toilet using prefabricated structure made up of waste plastics stone blocks(PLASTONE).

With reference to research project proposal submitted by you, I am directed to inform you that the Research and Development Advisory Committee (RDAC) during its meeting held on 04<sup>th</sup> August 2015 has approved your proposal with a slight modification in the duration. The committee has approved 12 months duration instead of 18 months as mentioned in your project proposal.

In view of the above, it is requested to submit a revised proposal taking into account of revised duration of 12 months to this Ministry immediately so that the finance concurrence of the IFD could be obtained for releasing 1<sup>st</sup> instalment.

Yours faithfully,

  
(G.BALASUBRAMANIAN)  
Deputy Adviser (SBM-G)

Copy to:-

1. PPS to Secretary (DWS).
2. PS to Joint Secretary(S)



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Engineering & Business Analytics India Private  
Limited  
GC, Aisa Greenridge, 32 - Langford Road  
Bangalore- 560 025  
Karnataka- India



Date : 04-04-2015  
To, The Principal  
Thiagarajar College of Engineering  
Madurai

PO- Engine/001

Attn: Dr. Palani Raja/ Dr. Balasubramani  
Department of Mechanical Engineering

This is the purchase order to Principal, Thiagarajar College of Engineering, Attn: Department of Mechanical Engineering, Dr. Palani Raja/ Dr. Balasubramani, regarding the development of methodology/procedure for the measurement of CG and Moment of Inertia of automotive engine and assembly as shown in annexure 1. The deliverables from the department is as follows,

Month	Activity
01	Literature survey on determination of mass moment of inertia and center of gravity of powertrain. Comparison of various methods for determining the mass moment of inertia and center of gravity of powertrain
02	Calculate mass moment of inertia and center of gravity for powertrains by analytical method.
03	Establish the experimental setup for determination of center of gravity and mass moment of inertia of powertrain. Experimental determination of mass moment of inertia and center of gravity for powertrains.

The cost of the project is 4.60 Lakhs and the payment will be as follows,  
10% with the PO and Project start  
20% at the end of analytical calculation  
30% at the end of the set-up ready  
20% at the end of the first data from the experiment and comparison  
20% at the end of the second data from the experiment and comparison

After the 2 measurements, any further measurements of the engine, EBA will provide additional 50,000 INR for each additional measurements.

EBA is responsible for the delivery of the engine to the gates of the College.

All the internal set-up of the project is handled by the college.

After the project, the engine will be taken back by EBA and transportation will be taken by EBA.

A final report with the details of the procedure and the comparison of the result will be provided by the college.

For  
Engineering & Business Analytics  
For Engineering & Business Analytics India Private Limited

*Prasad.V*

Signature



**THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI-15**  
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*Forwarded to*  
Dr AVA  
Mech

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION  
 4<sup>th</sup> Floor, East Tower, N.T.C.C. Place, Bisham Pitambah Marg,  
 Pragati Vihar, New Delhi-110013

Ref. No. 8 172/RIFD/RPS/POLICY-1/2014-15

March 19, 2015

The Drawing and Disbursing Officer  
 All India Council for Technical Education  
 7<sup>th</sup> Floor, Chandrabhlek Building,  
 Connaught Place, New Delhi - 110 001

31

Sub: Release of Grants under Research Promotion Scheme (RPS) Scheme during the financial year 2014-15.

Sir,

This is to convey the sanction of the Council for payment of Rs.1625294/- (Rupees Sixteen Lakh TwentyFive Thousand Two Hundred NinetyFour Only) for the financial year 2014-15 under the Research Promotion Scheme (RPS) as Grant-in-aid for meeting the expenditure for implementing the Scheme in order to create & update general research capabilities, as per details given below.

1	Name of the Beneficiary Institution (University / College / Institution)	THIAGARAJAR COLLEGE OF ENGINEERING TIRUPARANKUNDRAM MADURAI, TAMIL NADU-625015.
2	Principal Investigator's Name & Dept./Course	Dr. VALAN ARASU A INDUSTRIAL ENGINEERING
3	Grant-in-aid Sanctioned	Rs.1605882/- (Rs. 1605000/- for non-recurring and Rs.20882/- for recurring expenditure)
4	Amount to be Released during the year 2014-15 (100% of non-recurring and 1/3 <sup>rd</sup> of recurring expenditure of year 1 remaining recurring in year 2 and 3)	Non-Recurring: Rs. 1605000/- Recurring (1 <sup>st</sup> Year): Rs. 692882/- Total: Rs. 1625294/-
5	Approved Duration	3 Years (Three Years)
6	Title of the Project	Performance Enhancement Investigation of Shell and Tube Heat exchanger for Thermal Energy Storage Applications

The sanctioned grant-in-aid is debatable to the major '801.1(a)-RPS' (DRG) and is valid for payment for the financial year 2014-15.

- The grant-in-aid of the grant shall be drawn by the Drawing and Disbursing Officer (DDO), All India Council for Technical Education, New Delhi on the Grants-in-aid bill and shall be disbursed to and credited to the account of Director/Registrar/Principal, THIAGARAJAR COLLEGE OF ENGINEERING, TIRUPARANKUNDRAM, MADURAI, TAMIL NADU-625015 through RTGS.
- The date of release of the grant by AICTE shall be taken as the date of commencement of the project. The Principal/Director/Registrar shall intimate about the receipt of the grant to AICTE. Any Expenditure incurred prior the issuance of the approval letter is not allowed to be adjusted in the grant and if the University/Institution do not take the project work within 6 months of the receipt of the grant, approval shall ipso facto lapse.



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9

200

THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI 625015

ECE/SJT/DLRL/2015 /1113 02.02.2015

To  
The Chairman and Correspondent  
TCF, Madurai 625015

Respected Sir,

Sub: Research Associate & Assistants - DLRL Project - Permission - Reg  
Ref: No.DLRL/SJT/001(R)/2014 D0348 dated 21 Jan 2015

ECE Department has undertaken a project titled "Development and Implementation of Signal Processing Algorithm for Real Time RADAR Pulse Parameters Measurement" from Defense Electronics Research Laboratory (DLRL) Hyderabad at the cost of Rs.9,77,500/-, with Dr.S.J Thiruvengadam as Principal Investigator. The duration of this project is 10 Months. In this project, Rs. 4,90,000 has been allotted for Research Associate and project associates. Now, we would like to appoint one Research Associate at the salary of Rs.12500/month for the period of 10 months and 4 Research Assistants from the students of final year B.E ECE, at the salary of Rs. 4000/month for the period of 4 Months, at the total cost of Rs.1,89,000/-. We request your approval to appoint One Research Associate and 4 Research Assistants for this project

Thanking You

yes  
[Signature]  
SPZ

Yours faithfully  
[Signature]  
PRINCIPAL

Encl: DLRL Contract Letter,



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ALL INDIA COUNCIL FOR TECHNICAL EDUCATION  
4<sup>th</sup> Floor, East Tower, N B C C, Block, Bhisam Pitamah Marg,  
Pragati Vihar, New Delhi-110003

1054

Ref. No. 8-170/RIFD/RPS/POLICY-1/2014-15

March 19, 2015

The Drawing and Disbursing Officer  
All India Council for Technical Education  
7<sup>th</sup> Floor, Chandralok Building,  
Connaught Place, New Delhi-110 001

Sub: Release of Grants under Research Promotion Scheme (RPS) Scheme during the financial year 2014-15.

Sir

This is to convey the sanction of the Council for payment of Rs.50588/- (Rupees Five Lakh Fifty Thousand Five Hundred Eighty Eight Only) for the financial year 2014-15 under the Research Promotion Scheme (RPS) as Grant-in-aid for meeting the expenditure for implementing the Scheme in order to create & update general research capabilities, as per details given below:

1.	Name of the Beneficiary Institution (University / College / Institution)	THIAGARAJAR COLLEGE OF ENGINEERING TIRUPARANKUNDRAM, MADURAI, TAMIL NADU-625015
2.	Principal Investigator's Name & Dept./Course	Dr. PADMAVATHI S COMPUTER SCIENCE & ENGINEERING
3.	Grant-in-aid Sanctioned	Rs.611755/- (Rs.520000/- for non-recurring and Rs.91755/- for recurring expenditure)
4.	Amount to be Released during the year 2014-15, (100% of non-recurring and 1/3 <sup>rd</sup> of recurring expenditure of year 1 remaining recurring in year 2 and 3)	Non Recurring : Rs. 520000/- Recurring (1 <sup>st</sup> Year): Rs.30588/- Total : Rs.550588/-
5.	Approved Duration	3 Years (Three Years)
6.	Title of the Project	An Agent Based Cloud Revenue Model for Women Empowerment in Rural Areas

The sanctioned grant-in-aid is debatable to the major "601-1(a) RPS" (OBC) and is valid for payment for the financial year 2014-15

2. The grant-in-aid of the grant shall be drawn by the Drawing and Disbursing Officer (DDO), All India Council for Technical Education, New Delhi on the Grants-in-aid bill and shall be disbursed to and credited to the account of Director/Registrar/Principal, THIAGARAJAR COLLEGE OF ENGINEERING, TIRUPARANKUNDRAM, MADURAI, Tamil Nadu-625015 through RTGS.

3. The date of release of the grant by AICTE shall be taken as the date of commencement of the project. The Principal/Director/Registrar shall intimate about the receipt of the grant to AICTE. Any Expenditure incurred prior the issuance of the approval letter is not allowed to be adjusted in the grant and if the University/Institution do not take the project work within 6 months of the receipt of the grant, approval shall ipso facto lapse.



**THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI-15**  
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**DEPARTMENT OF ELECTRICAL ENGINEERING**  
INDIAN INSTITUTE OF SCIENCE, BANGALORE - 560 012, INDIA

**Dr. K.R. Ramakrishnan**  
Professor  
E-Mail : krr@ee.iisc.ernet.in

**To Whomsoever May It Concern**

The following items are being delivered to Thiagarajar College of Engineering (TCE), Madurai by the Indian Institute of Science, Bengaluru under the DST (Department of Science and Technology, Govt. of India) titled "Video Analytics Development System".

These items are meant for academic use only and will be returned to the Indian Institute of Science at the end of the project.

**List of items being delivered to TCE, Madurai, Tamilnadu**

1. PC+Monitor  
Ref ID: EE/S-419(2/2),  
EE/KRR/2014/S-500,  
26.9.14 (Desktop)
2. Silvan 'Dhruv' cameras (3 no.s)  
Ref IDs:
  - a. EE/S-402(7)
  - b. EE/S-402(8)
  - c. EE/S-402(9)
3. Axis P-5512 PTZ camera (1 no.)  
Ref ID: EE/S-300

192-168-1-167  
120  
01

*K.R. Ramakrishnan*  
Dr K.R.Ramakrishnan

05-11-2014

Received

*B. Sogameen*  
07/11/14

*[Handwritten signature]*



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No. 22/12/2014-NEB (C)  
Government of India  
Ministry of Science & Technology,  
Department of Science and Technology  
(National S&T Entrepreneurship Development Board)

Technology Bhavan,  
New Mehrauli Road,  
New Delhi- 110 016

Dated: 26.02.2014

**ORDER**

**Sub: Establishment of a Technology Business Incubator (TBI) at Thiagarajar College of Engineering, Madurai.**

Approval of the President is hereby accorded for the establishment of a Technology Business Incubator (TBI) at Thiagarajar College of Engineering, Madurai at a total cost of Rs.432.09 lakhs (Rupees Four Crores Thirty Two Lakhs and Nine Thousand Only) with DST's contribution of an amount of Rs.193.77 lakhs (Rupees One Crore Ninety Three Lakhs and Seventy Seven Thousand Only).

2. The Technology Business Incubator (TBI) at Thiagarajar College of Engineering, Madurai will identify and promote new technologies in the areas of RF and Antennas and all allied wireless systems, Printed circuit board manufacturing, Power sources and Batteries and Material based manufacturing for Wireless communication systems.

3. The break-up of the total approved cost for the TBI project is as under:-

Sl.No	Particulars	1 <sup>st</sup> Year	2 <sup>nd</sup> Year	3 <sup>rd</sup> year	4 <sup>th</sup> Year	5 <sup>th</sup> year	Total
<b>I. Capital</b>							
1	New Land and Furnished Building (to be provided by Host Institution)	13.32	14.65	16.12	17.73	19.50	81.32
2	Office Equipments (Computing, Communication, Training Facilities, etc.)	25.00	15.00	15.00	5.00	5.00	65.00
<b>Total - I</b>		<b>38.32</b>	<b>29.65</b>	<b>31.12</b>	<b>22.73</b>	<b>24.50</b>	<b>146.32</b>
<b>II. Recurring Cost</b>							
1	Man Power Cost	15.32	18.12	19.93	22.00	24.10	99.27
2	Travel	1.00	1.00	1.00	1.00	1.00	5.00
3	Utility and Maintenance	0.00	1.00	1.00	1.00	1.00	4.00
4	Marketing Promotion and Advertisement	1.50	1.50	1.50	1.50	1.50	7.50
5	Networking and Training	2.00	2.00	2.00	2.00	2.00	10.00
6	Miscellaneous and Contingencies	1.00	0.50	0.50	0.50	0.50	3.00
<b>Total - II</b>		<b>20.62</b>	<b>24.12</b>	<b>25.93</b>	<b>28.00</b>	<b>30.10</b>	<b>128.77</b>
<b>Total - (I + II)</b>		<b>58.94</b>	<b>53.77</b>	<b>57.05</b>	<b>50.73</b>	<b>54.60</b>	<b>275.09</b>



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THIAGARAJAR COLLEGE  
16 DEC 2014

SS Kohli  
Scientist-G/ Adviser  
Tel.: 26590499  
E-mail: [skohli@nic.in](mailto:skohli@nic.in)

भारत सरकार  
विज्ञान और प्रौद्योगिकी मंत्रालय  
विज्ञान और प्रौद्योगिकी विभाग  
टेक्नोलॉजी भवन, नया महरौली मार्ग  
नई दिल्ली - 110 016

GOVERNMENT OF INDIA  
MINISTRY OF SCIENCE AND TECHNOLOGY  
DEPARTMENT OF SCIENCE AND TECHNOLOGY  
TECHNOLOGY BHAVAN, NEW MEHRAULI ROAD  
NEW DELHI-110 016

Dr. S. Balaji  
Chairman  
TJRC

D.O No: SBC/17075/2013 Dated: 05-12-2014

Subject: Research project entitled "Development of nano composite absorbers for Suppression of Excess EMF radiation." submitted to this department for consideration for funding under Cell Tower Radiation Programme.

Dear Dr. Abhaikumar,

Kindly refer to your captioned project proposal considered by the Expert Committee recently. I am pleased to inform you that the project has been favourably recommended by the Expert Committee. The committee suggested to have an expert from the material science group, at the total cost of Rs.49.90 Lakhs for the duration of 24 Months, subject to your fulfilling the eligibility conditions. The budget recommended is as follows:

SL.No.	Sanction Head	Total
A.	Non-recurring (Capital Items)	
	Equipments (Handheld Network Analyzer, Horn Antenna QH 800, RF power source)	Rs. 35,00,000
B.	Recurring Items (General)	
I	Man Power (JRF-2)	Rs. 3,20,000
II	Consumables	Rs. 1,00,000
III	Travel	Rs. 60,000
IV	Contingency	Rs. 10,000
	Sub Total	Rs. 49,90,000
	Over Heads as per norms	

2. You are now required to furnish the following documents/information in one lot:

- Latest quotations for permanent equipment included in your project proposal, exclusively required for the project. These quotations should include insurance and freight (CIF), if any etc. The validity of the quotations should be such as to enable placement of firm orders immediately on receipt of sanction letter from DST.
- List of consumable with cost, (as given in project proposal) in a table format, indicating name of costly consumables (enclose quotation for costly items) with quantity and cost.
- Kindly note that salaries of research staff to be recruited in the project is fixed as per DST norms. In order to facilitate the same please provide certificate from the head of the institute certifying the salaries to be paid to your project staff.
- A list of facilities available at your institute for execution of the project. This was included in your project proposal but we would like to be reassured that these facilities would be available to you during the entire duration of the project. Additional facilities acquired after submission of the proposal, if any, may please be indicated clearly.
- In case you are aware of a possible change in your position in the institute (for example sabbatical leave, shifting of institute, resignation etc.) in the near future, you are requested to furnish such information.





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CE Mail :: Aakash Equipment Fund

[https://mail.tce.edu/?\\_task=mail&\\_action=print&\\_uid=](https://mail.tce.edu/?_task=mail&_action=print&_uid=)

Subject **Aakash Equipment Fund**  
From janhvi <janhvi@cse.iitb.ac.in>  
To MRS. JANHVI MORE  
<janhvi@cse.iitb.ac.in>  
Date 29-01-2015 1:27 am

**TCE Mail**

Dear Sir / Madam,

Aakash equipment fund of Rs 1,00,000/- has been transferred to your account on 28.1.15. Please check and acknowledge the receipt.

Regards  
Jaisheela Gaitonde  
Sr Project Manager(Finance)  
MHRD Projects - T10kT and Aakash  
Dept of Computer Science & Engineering  
T 10kT Lab, Ground Floor, Kanwal Rekhi Bldg.  
IIT Bombay  
Mumbai 400 076  
Phone: 022-2576-4964 (O)



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MADURAI - 625 015



GRANT UTILISATION CERTIFICATE

This is to certify that a grant of Rs.100,000/- (Rupees One Lakh only) from IIT Bombay was received by our organization via electronic money transfer to our Institute's Bank Account (as per bank account details provided by us to IIT Bombay.)

The details of purchases are as per the Annexure II attached with this certificate.

We certify that the grant of Rs 100,000 (Rupees One Lakh only) has been fully utilized for the purchase of equipment for effective utilization of Aakash tablets, for R & D work and for T10kT workshops under the National Mission on Education through ICT (NMEICT, Govt. of India)

*P. Karthikeyan*  
Aakash Coordinator  
Signature with Institute Seal  
Date: 10.03.2015

*S. S.*  
Finance Officer  
Signature with Institute Seal  
Date: 10.03.15

*V. Aravinthan*  
Institute Head  
Signature with Institute Seal  
Date: 10.3.2015

*M. Vijayan*  
Chartered Accountant  
Signature  
Date:




M. VIJAYAN, B.Com., F.C.A.,  
Chartered Accountant  
Membership No: 200/29972  
Tiruvavur, Nathan Road,  
Tirupattur, Madurai - 625 014.



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payment  
Government

  
 UNIVERSITY GRANTS COMMISSION  
 BAHADURSHAH ZAFAR MARG  
 NEW DELHI-110002

FD Diary No. - 2217  
Dated - 22.07.2015

3

Dated :- Sep, 2015

F. No - 43-266/2014(SR)

MRP-MAJOR-CIVI-2013-39052  
(OBC)

11 SEP 2015

The Under Secretary (FDIII),  
University Grants Commission,  
Bahadur Shah Zafar Marg,  
New Delhi-110002.

Sub. - Release of Grants-in-aid to Thiagarajar College of Engineering, Madurai - 625015 for the year 2015-16 under Plan in respect of Major Research Project entitled 'Study on Influence of Industrial By- Products on of Modified Reactive Powder Concrete(MRPC)' awarded to Dr.K.Arannachalam, Department of Civil Engineering. Tenure of project for year(s) w.e.f. 01/07/2015.

\*Sir/Madam,

I am directed to convey the approval sanction of the University Grants Commission for payment of grant of Rs. 10,15,000/- (Rupees: TEN LAKHS FIFTEEN THOUSAND ONLY) as 1st instalment for the years 2015-16 towards Major Research Project to the PRINCIPAL Thiagarajar College of Engineering, Madurai - 625015 for the Plan expenditure to be incurred during 2015-16.

S. No.	Items	Head of Account	Amount Approved(Rs.)	Grant being Released as 1st Instalment(Rs.)	Grant Already Released(Rs.)	Total Grant(Rs.)
A.	<b>Non-Recurring</b>	3(A).49(a).35	Rs. 0/-	Rs. 0/-	-	Rs. 0/-
1.	Books & Journals		Rs. 9,85,000/-	Rs. 9,85,000/-	-	Rs. 9,85,000/-
2.	Equipment					
B.	<b>Recurring</b>	3(A).49(a).31				
1.	Honorium to Retd. Teacher @ Rs. 18,000/- p.m.		Rs. 0/-	Rs. 0/-	-	Rs. 0/-
2.	a. Project Fellow (Non-Gate/Non NET) @ Rs. 14,000/- p.m. b. Project Fellow (Gate/NET/GPAT) @ Rs. 16,000/- p.m. (Tenure - 3 years)		Rs. 0/-	Rs. 0/-	-	Rs. 0/-
3.	Chemical/Glassware/Consumable (Raw Material & Packaging Material etc.)		Rs. 0/-	Rs. 0/-	-	Rs. 0/-
4.	Contingency		Rs. 50,000/-	Rs. 25,000/-	-	Rs. 25,000/-
5.	Hiring Services		Rs. 0/-	Rs. 0/-	-	Rs. 0/-
6.	Travel / Field Work		Rs. 0/-	Rs. 0/-	-	Rs. 0/-
7.	Any Other		Rs. 0/-	Rs. 0/-	-	Rs. 0/-
8.	Overhead Charges 10% of approved recurring Grant (Except Travel & Field Work)	Rs. 5,000/-	Rs. 5,000/-	-	Rs. 5,000/-	
			Rs. 10,40,000/-	Rs. 10,15,000/-	-	Rs. 10,15,000/-



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16

Big Regd post- 7  
16a  
Dr. S.P. / Dr. Deshpande  
12

**DARE**

फैक्स/PAAX : 080 - 26047600 दूरभाष/TEL : 080 - 26047717	भारत सरकार रक्षा मंत्रालय रक्षा अनुसंधान एवं विकास संगठन रक्षा उद्द्योगिकी अनुसंधान संस्थापन	GOVT. OF INDIA, MINISTRY OF DEFENCE DEFENCE RESEARCH & DEVELOPMENT ORGANISATION <b>DEFENCE AVIONICS RESEARCH ESTABLISHMENT</b> P.B. NO 9356, CV RAMAN NAGAR, BANGALORE - 560 093
--	--	--

NO: 5303/DARE/CARS/BUILD UP - 01/2013-14

DATED 28 OCT 2013

M/S. Thiagarajar College of Engineering  
RF System Lab, Department of ECE,  
Madurai - 625 015

Dear Sir

Reference your Summary offer of Provision of Research Services & Contract for Acquisition of Research Services (CARS) for "Design and Development of 1GHz-6GHz Ultra Wide Band Vivaldi Antenna for Airborne Applications"

With reference to the above letter, it is intimated that your proposal for Summary Offer of Provision of Research Services for "Design and Development of 1GHz-6GHz Ultra Wide Band Vivaldi Antenna for Airborne Applications" in connection with "BUILD UP" has been accepted by the Director DARE on behalf of President of India in accordance with Contract For Acquisition of Research Services (CARS) at the total value of Rs.17,59,320/- (Rupees Seventeen Lakhs Fifty Nine Thousand One Hundred and Twenty Only) plus service tax @ 12.36% as per the enclosed contract No. 5303/DARE/CARS/BUILD UP-01/13-14 dated 23 Oct. 2013.

Please acknowledge receipt of this contract and in future please quote this contract number and date for all future correspondence for our reference. Also you may forward your invoice for arranging payment as per contract.

Yours Faithfully


(KS MANJUNATHA) SSC-I  
For DIRECTOR




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 आर सि आइ



Government of India  
Ministry of Defence  
Defence R & D Organization  
**RESEARCH CENTRE IMARAT**  
VIGNYANAKANCHA P.O.  
HYDERABAD-500 069

Tel: 040-24306124  
Fax: 040-24306626

RCI/DCMM/LPD/CARS-0319 Dated: 02 Dec 2013

To  
The Principal  
RF Systems Lab, Department of ECE  
Thiagarajar College of Engineering  
Madurai-625 015  
Sir, (Kind Attn: Dr. S.Raju (RSP))


**SUB: Contract for Acquisition of Research Services (CARS) on " Design and Development of a Conformal Wrap Around Antenna for Navigation Application".**  
**REF: Contract No-RCI/DCMM/LPD/CARS-0319 dated 28.11.2013**

Please find enclosed herewith a copy of CARS contract No.RCI/DCMM/LPD/CARS-0319 dated 28/11/2013 duly signed by the Director, RCI for your ready reference. As per the agreed terms, initial advance of Rs.4.00 Lakhs is to be released. In this context you have to submit the following documents.

- Contingent Bill duly signed (Copy enclosed- duly filled in)
- Invoice
- I.T.exemption certificate
- ECS details
- Indemnity Bond
- Annexure-I(in original)

Submission of the above documents is mandatory as per rules in vogue. As such, please forward the documents at an early date to enable us to clear the advance payment.

Kindly refer to contract number in all future correspondence for linking and speedy action at this end.

  
(MKANNAN)  
Sec 'F'  
HEAD INSD, DNEC-RCI

Copy to  
Shri S.Deepak Ram Prasath



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Email: erip\_er@hcr.drdo.in  
Tele: 011-23017901  
Fax: 011-23017582



No. ERIP/ER/1204707/M/C1/1478  
**Directorate of Extramural Research & Intellectual Property Rights (ER&IPR)**  
Defence Res & Dev Orgn (DRDO)  
DRDO Bhawan, Rajaji Marg, New Delhi-110 011

Dated: 20 June, 2013

To  
Dr. (Mrs.) B. Manimegalai  
Asst. Professor  
Dept. of ECE  
Thiagarajar College of Engineering  
Madurai - 625 015

Sub: Grants-in-Aid for research project titled "Design and Development of Conformal Antenna Array for Avionics Applications".

Approval is hereby accorded for a grant of Rs. 17,5272 Lakh (Rupees Seventeen Lakh Fifty two Thousand Seven Hundred Twenty only) to Thiagarajar College of Engineering, Madurai, Chennai for pursuing the research on the subject titled project by Dr. (Mrs.) B. Manimegalai, Asst. Professor, Dept. of ECE, Thiagarajar College of Engineering, Madurai as Principal Investigator (PI)

2 The grant shall be spent as follows:

Expenditure on - (Rs in lakh) during ->	Year 1	Year 2	Year 3	Line Total
a) Staff: SRF - 01 @ Rs. 18000/- p.m. + 10% HRA	2.376	2.376	-	4.752
b) Equipment (including spares thereof)	7.00	-	-	7.00
c) Operation and maintenance	-	-	-	-
d) Expendables	1.50	1.00	-	2.50
e) Travel (Domestic)	0.80	0.80	-	1.60
f) Contingencies	0.60	0.60	-	1.20
g) Visiting faculty or Research Consultant	-	-	-	-
h) Procured services (other than (g)) and metered utilities	-	-	-	-
i) Institutional Overheads Charges @ 10 % of (a)	0.2376	0.2376	-	0.4752
Column Totals	12.5136	5.0136	-	17.5272

Grand Total Rs. 17.5272 Lakhs (Rs. Seventeen Lakh Fifty Two Thousand Seven Hundred Twenty Only).

- The project will last for Two Year from the date of receipt of the first installment by the grantee institute and it will be governed by the terms and conditions given overleaf.
- This sanction issues in exercise of powers conferred on the competent authority by Ministry of Defence letter No. DRDO/DEFA/FA/8322/M/01/2013/D (R&D) dated 30<sup>th</sup> July 2010
- The release of funds will be authorized by Accounts Officer of the Directorate of ER&IPR.
- The expenditure is debitible to Major Head 2000 - Defence Services - Research & Development, Minor Head 024 - Research/Research & Development, Sub-Head (C)- Extramural Research (EMR) Code Head 852/08.
- This is issued with the concurrence of IFA vide their J.O. No. IFA/R&D/1183/0313 dt. 28.5.2013

(Dr. C. Akhtar)  
Director

Copy to:-

- The Principal Thiagarajar College of Engineering, Madurai - 625 015. The Cheque will be issued by PCDA in his favour.
- The Director, DEAL, DRDO, Rajpur Road, Dehradun - 248 001, (Ref. DEAL/PMRA/2117/PPA dated 12<sup>th</sup> Nov 2012)
- The Director, DARE, DRDO, Post Box No - 9166, CV Raman Nagar, Bengaluru - 560 093. (Ref. DARE/DS/01/CORR/PERS dated 8-11-12)
- Sh. Mahakar Singh, Sc -G, DEAL, DRDO, Rajpur Road, Dehradun - 248 001 - Domain Expert



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		<b>motorola solutions foundation</b>	5199
1303 E. Algonquin Rd. Schaumburg, IL 60196 USA		<small>The Northern Trust Company Chicago, IL, USA Member FDIC</small>	
<b>PAY</b>	Fifteen thousand and xx/100 Dollars		DOLLARS
<b>TO THE ORDER OF</b>	THIAGARAJAR COLLEGE OF ENGINEERING	<b>I.D. NO.</b> 16371399	<b>DATE</b> 01/27/2014
<b>FOR:</b>	Enterprise Mobility Lab		<b>AMOUNT</b> \$15,000.00
		<small>TWO SIGNATURES REQUIRED FOR AMOUNTS OVER \$10,000</small>	
⑈051995⑈ ⑆071923828⑆ 0000023957⑈			

**MOTOROLA SOLUTIONS FOUNDATION** 5199

PAYEE NAME: THIAGARAJAR COLLEGE OF ENGINEERING  
 PROJECT TITLE: Enterprise Mobility Lab  
 REQUEST ID: 9459637  
 PAYMENT ID: 16371399  
 CHECK DATE: 01/27/2014  
 CHECK AMOUNT: \$15,000.00

**MOTOROLA SOLUTIONS FOUNDATION** 5199

PAYEE NAME: THIAGARAJAR COLLEGE OF ENGINEERING  
 PROJECT TITLE: Enterprise Mobility Lab  
 REQUEST ID: 9459637  
 PAYMENT ID: 16371399  
 CHECK DATE: 01/27/2014  
 CHECK AMOUNT: \$15,000.00



**THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI-15**  
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ALL INDIA COUNCIL FOR TECHNICAL EDUCATION  
4<sup>th</sup> Floor, East Tower, N.R.C.D. Place, Elsham Nagar, Madurai,  
Tamil Nadu - 625 002

Ref. No. 2014/TE/PROP/PS/POLICY-8/64/2012-13      Date: 01.01.2015

The Drawing and Disbursing Officer,  
All India Council for Technical Education,  
7<sup>th</sup> Floor, Chancery Building,  
Connaught Place, New Delhi - 110 001.

**Subj:** Release of Grant under Research Promotion Scheme (RPS) Scheme during the financial year 2012-13.

**St:**

It is to convey the sanction of the Council for payment of Rs. 1054334 (Rupees Eighteen Lakh SixtyFour Thousand Three Hundred ThirtyFour Only) during 2012-13 under the Research Promotion Scheme (RPS) as Grant-in-aid for meeting the expenditure for implementing the Scheme in order to create 5 research oriented research facilities on per details given below:

1. Name of the Scholarly Institution (University / College / Institution)	THIAGARAJAR COLLEGE OF ENGINEERING TIRUPARANKUNDRAM, MADURAI-625005 Tamil Nadu
2. Principal / In-charge Name & Deptt. Grant-in-aid Scheme:	Dr. ARUNACHALAM K. CIVIL ENGINEERING Ra. 221000/-
4. Amount to be Released during the year 2012-13 (100% of non recurring and remaining of year 1 remaining recurring in year 2 and 3)	Non Recurring : Rs. 1820000/- Recurring (1 <sup>st</sup> Year): Rs. 213334/- Total: Rs. 1054334/-
5. Approved Duration	3 Years (Three Years)
6. Title of the Project	USE OF AGRO RESIDUAL AND INDUSTRIAL WATES IN THE DEVELOPMENT OF ULTRA HIGH PERFORMANCE CONCRETE

1. The sanctioned grant-in-aid is debitable to the item "Head RPS/Plan grant" and is valid for payment during the financial year 2012-13.

2. The grant in aid of the grant shall be drawn by the Drawing and Disbursing Officer (DDO), All India Council for Technical Education, New Delhi on the Grant-in-aid bill and shall be disbursed to and credited to the account of Director/Registrar/Principal, THIAGARAJAR COLLEGE OF ENGINEERING TIRUPARANKUNDRAM, MADURAI-625005 Tamil Nadu through RTGS.

3. The date of release of the grant by AICTE shall be taken as the date of commencement of the project. The Principal/Director/Registrar shall inform about the receipt of the grant to AICTE. Any Expenditure incurred prior to the issuance of the approval letter is not allowed to be adjusted in the grant and if the University/Institution do not take the project work within 5 months of the receipt of the grant, approval shall be liable to be cancelled.


Contd...2-





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विश्वविद्यालय अनुदान आयोग  
 यूजीसी कार्यालय  
 नई दिल्ली-110 002  
 UNIVERSITY GRANTS COMMISSION  
 SAHAJDRUG-SAH ZAFAR MARG  
 NEW DELHI-110 002

F. No. 42-116/2013 (SR)

The Under Secretary (FD-III)  
 University Grants Commission  
 New Delhi-110002

Subj: UGC support for the Major Research Project in Physical Sciences, Bio-Sciences, Maths, Medical, Agricultural Sciences and Engineering & Chemistry to University/College Teachers. Project entitled, "Victim identification in forensic odontology using dental images"

Sir,

I am to refer to your letter forwarding the application of Dr. A. Banumathi of your institution for financial assistance under the above scheme and to convey the Commission's approval & sanction as an account grant of Rs. 5,42,800/- (Rupees five lakh forty two thousand eight hundred only) to the Principal, Thiagarajar College of Engineering, Madurai-25015, IN in the Major Research Project of Dr. A. Banumathi, Department of Electronics for the period of 3 years w.e.f. 1.4.2013 as detailed below:-

S.No.	ITEMS	AMOUNT APPROVED	GRANT RELEASED AS INSTALMENT	Contg or?
A.	<b>Non -Recurring</b>		2,11,000/-	GEN
1.	Books & Journals	10,000/-		
2.	Equipment (as per proposal including computer)	2,00,000/-		
B.	<b>Recurring</b>		3,32,800/-	
1.	Honorarium to Retd. Teacher @Rs. 12,000/- p.m.	nil		
2.	Project Allowance @14,000/- p.m. for initial 2 years and Rs. 16,000/- p.m. from the third year onwards.	5,28,000/-		
3.	Chemical/ Glassware / Consumable	nil		
4.	Hiring Services	nil		
5.	Contingency	10,000/-		
6.	Travel/Field Work	20,000/-		
7.	Special Need	nil		
8.	Overhead Charges @ Rs. 10% approved recurring Grant (Except Travel & Field Work)	53,800/-		
	<b>Total (A + B)</b>	<b>8,21,800/-</b>	<b>5,42,800/-</b>	

The acceptance Certificate in prescribed format (Annexure-1 available on the UGC web-site) may be sent to the undersigned within one month from the issue of the award letter failing which the project may be treated as cancelled.

If the terms & conditions are acceptable, as per guidelines which are available on UGC web-site [www.ugc.ac.in](http://www.ugc.ac.in) the Demand Draft/ Cheque being sent may be retained. Otherwise the same may be returned in original to the UGC by Registered Post invariably within 15 days from the receipt of the Demand Draft/Cheque in favour of Secretary, UGC, New Delhi.

Principal Investigators should ensure that the statement of expenditure & utilization Certificate to the effect that the grant has been utilized for the purpose for which it has been sanctioned shall be furnished to the University Grants Commission in time.

The first instalment of the grant shall comprise of 100% of the Non -Recurring including Over Head Charges, and 50% of the total Recurring grant.



**THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI-15**  
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**ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**  
 4<sup>th</sup> Floor, East Tower N.B.C.C. Plaza, Bhisam Pitamah Marg,  
 Pragati Vihar, New Delhi-110003

Ref. No.: 20/AICTE/RI/DF/RPS(POLICY-IV)36/2012-13 March 18, 2013

**The Drawing and Disbursing Officer**  
 All India Council for Technical Education  
 7<sup>th</sup> Floor, Chandrak Building,  
 Connaught Place, New Delhi-110 001

**Subject:** Release of Grants under Research Promotion Scheme (RPS) Scheme during the financial year 2012-13.

Sir,


This is to convey the sanction of the Council for payment of **Rs. 2333334/- (Rupees TwentyThree Lakh ThirtyThree Thousand Three Hundred ThirtyFour Only)** during 2012-13 under the Research Promotion Scheme (RPS) as Grant-in-aid for meeting the expenditure for implementing the Scheme in order to create & update general research capabilities, as per details given below:

1. Name of the Beneficiary Institution (University / College / Institution);	<b>THIAGARAJAR COLLEGE OF ENGINEERING TIRUPARANKUNDRAM, MADURAI 625015 Tamil Nadu</b>
2. Principal Investigator's Name & Dept.	<b>Dr. MANOHARAN P.S. ELECTRICAL AND ELECTRONICS ENGINEERING</b>
3. Grant-in-aid Sanctioned	<b>Rs. 2400000/-</b>
4. Amount to be released during the year 2012-13 (100% of grant) and recurring of year 1 remaining recurring in year 2 and 3)	<b>Non Recurring : Rs. 2333334/- Recurring 1<sup>st</sup> Year: Rs. 333334/- Total: Rs. 2333334/-</b>
5. Approved Duration	<b>3 Years (Three Years)</b>
6. Title of the Project	<b>INVESTIGATION ON PHOTOMETRIC CHARACTERISTICS OF LED AND OLEDs USING INTEGRATING SPHERE</b>

The grant-in-aid is debitable to the minor head "RPS Part grant" and is valid for financial year 2012-13.

The grant shall be drawn by the Drawing and Disbursing Officer (DDO), All India Council for Technical Education, New Delhi, on the Grant-in-aid bill and shall be disbursed to the account of Director/Registrar/Principal, **THIAGARAJAR COLLEGE OF ENGINEERING, TIRUPARANKUNDRAM, MADURAI, 625015 Tamil Nadu** through RTGS.

The grant by AICTE shall be taken as the date of commencement of the project. The Director/Registrar shall intimate about the receipt of the grant to AICTE. The grant prior to the issuance of the approval order is not allowed to be adjusted in any other account. The project work within 6 months of the approval order.

  
 20/3/2013 Contd... 2/-



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File No. SR/S5/GC-05/2012  
**SCIENCE & ENGINEERING RESEARCH BOARD**  
(A statutory body of the Department of Science & Technology, Government of India)

S & 5A, Lower Ground Floor,  
Vasant Square Mall,  
Plot No. A, Community Centre,  
Sector-5, Pocket-5  
Vasant Kunj  
New Delhi-110070

Date: - 25.01.2017

**ORDER**

Subject: Research project titled "Recovery of waste plastics from e-waste component and waste rubber from used tires – Characterization and its utilization in a greener method; Studies to evaluate complete combustion of waste plastics – An eco friendly process" under the guidance of Prof. R. Vasudevan, Thiagarajar College of Engineering, Madurai-625015, Tamil Nadu- Release of Final grant & Settlement of Accounts.

Sanction of the Science & Engineering Research Board (SERB) is accorded to the payment of a sum of Rs. 6,22,000/- (Rs. Six Lakh twenty Two Thousand Only) to The Principal, Thiagarajar College of Engineering, Madurai-625015, Tamil Nadu as the final grant for the above mentioned project.

- Sanction of the grant is subject to the condition as detailed in Annexure-1 of SERB sanction order no. File No. SR/S5/GC-05/2012 dated 18.05.2015.
- It is certified that provision of 212 relating to the UCs for the fund released earlier to this project have been satisfied and the UC's is/are enclosed.
- The expenditure involved is debitable to

**Fund for Science & Engineering Research (FSER)**

Release under Green Chemistry

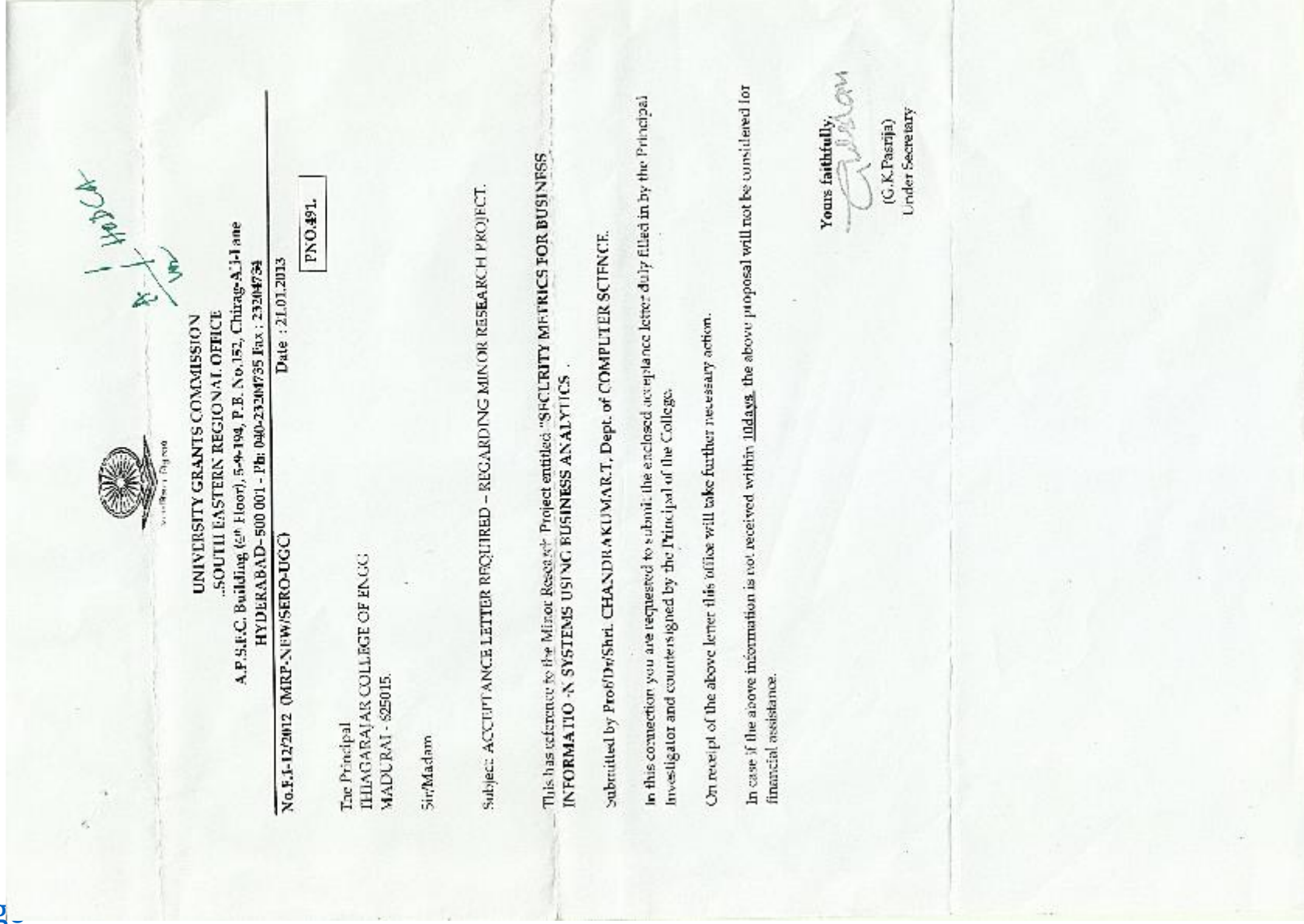
5. The Sanction has been issued with the approval of the competent authority under delegated powers and vide Diary No. SERB/F/7674/2016-17 dated: 25.01.2017.

6. The amount Rs. 6,22,000/- (Rs. Six Lakh twenty Two Thousand Only) in question under 'Recurring' will be drawn by the Finance & Budget Officer of the SERB and will be disbursed by means of RTGS transaction as per Bank details given below:

Account Name	FCE-DRDI, Project A/C
Account Number	601301905856
Bank Name & Branch	ICICI Bank Ltd., Thiagarajar College of Engg. Branch, Madurai
IFSC/RTGS Code	ICIC0000563



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Consulting Services

Letter of agreement for small assignments carried out by consultants

Name of Assignment : Research study for the Re-use of waste water (Industry and Domestic) for Irrigation, Tirunelveli Corporation

Name of Consultant : The Department of Civil Engineering,  
Thiyagarajar College of Engineering, Madurai - 625 015

Name of the client : The Executive Engineer/Deputy Director, Hydraulics  
Division, PWDCA - 625023

1. Set out below the terms and conditions under which the Consultant has agreed to carry out for the Client the above-mentioned assignment specified in the attached Terms and Reference.
2. For administrative purposes the Client has been assigned to administer the assignment and the Consultant will collect all relevant information needed to carry out the assignment. The services will be required in the Project for the period of 330 days (11 months) viz the period from 12.10.2012 to 06.09.2013.
3. The Client may find if necessary to postpone or cancel the assignment and/or shorten or extend its duration. However, every effort will be made to give the consultant, as early as possible, notice of any changes. In the event of termination, the consultant will be paid for the services rendered for carrying out the assignment to the date of termination and the Consultant will provide the Client with any reports or parts thereof, or any other information and documentation gathered under this agreement prior to the date of termination.
4. The services to be performed, the estimated-time to be spent, and the reports to be submitted will be in accordance with the attached Terms of Reference.
5. This agreement, its meaning and interpretation and the relations between the parties shall be governed by the Laws of Union of India.
6. This agreement will become effective upon confirmation of this letter on behalf of Consultant and will terminate on 10.09.2013 or such other date as mutually agreed between the Client and the Consultant.
7. Payments for the Services will not exceed a total value of Rs.13,00,000.00 (Rupees Thirteen lakhs only) (Herein after called contract value).



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33136551, 33137501, 33137721, 33134416  
33136731, 33137337, 33134935, 33139431



विश्वविद्यालय अनुदान आयोग  
बहादुरशाह जफर मार्ग  
नई दिल्ली-110 002  
UNIVERSITY GRANTS COMMISSION  
BAHADURSHAH ZAFAR MARG  
NEW DELHI-110 002

F. No. 42-897/2013 (SR)

The Under Secretary (FD-III)  
University Grants Commission  
New Delhi-110002

Sub: UGC support for the Major Research Project in Physical Sciences, Bio-Sciences, Maths, Medical, Agricultural Sciences and Engineering & Chemistry to University/College Teachers - Project entitled,

"Non-destructive testing (NDT) of composite materials using texture and morphology based scanned electron microscope (SEM) image analysis"

Sir,

I am to refer to your letter forwarding the application of Dr. S. Karthikeyan of your institution for financial assistance under the above scheme and to convey the Commission's approval & sanction in on account grant of Rs. 7,36,800/- (Rupees seven lakh thirty six thousand eight hundred only) to the Principal, Thiagarajar College of Engineering, Madurai-625015, in in r/o Major Research Project of Dr. S. Karthikeyan, Department of Industrial Engg for the period of 3 years w.e.f. 1.4.2013 as detailed below:-

S.No	ITEMS	AMOUNT APPROVED	GRANT RELEASED AS 1st INSTALLMENT	Category
A.	<b>Non - Recurring</b>		3,00,000/-	SC
1.	Books & Journals	nil		
2.	Equipment (as per proposal)	3,00,000/-		
B.	<b>Recurring</b>		4,36,800/-	
1.	Honorarium to Retd. Teacher @ Rs. 12,000/- p.m.	nil		
2.	Project Fellow @14,000/- p.m. for initial 2 years and Rs. 16,000/- p.m. from the third year onwards.	5,28,000/-		
3.	Chemical/ Glassware / Consumable	nil		
4.	Hiring Services	nil		
5.	Contingency	2,00,000/-		
6.	Travel/Field Work	nil		
7.	Special Need	nil		
8.	Overhead Charges (@ Rs. 10% approved recurring Grant (Except Travel & Field Work)	72,800/-		
	<b>Total (A + B)</b>	<b>11,00,800/-</b>	<b>7,36,800/-</b>	

The acceptance Certificate in prescribed format (Annexure-I) available on the UGC web-site) may be sent to the undersigned within one month from the issue of the award letter failing which the project may be treated as cancelled.

If the terms & conditions are acceptable, as per guideline which are available on UGC web-site www.ugc.ac.in the Demand Draft/ Cheque being sent may be retained. Otherwise the same may be returned in original to the UGC by Registered Post invariably with in 15 days from the receipt of the Demand Draft/Cheque in favour of Secretary, UGC, New Delhi.

Principal Investigators should ensure that the statement of expenditure & utilization Certificate to the effect that



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**ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**  
4<sup>th</sup> Floor, East Tower, N.B.C.C. Place, Bhasham Pitamsh Marg,  
Pragati Vihar, New Delhi-110003

Ref. No: 20/AICTE/RIFD/RPS(POLICY-II)63/2012-13      January 31, 2013

The Drawing and Disbursing Officer  
All India Council for Technical Education  
7<sup>th</sup> Floor, Chardraok Building,  
Connaught Place, New Delhi - 110 001.

Sub: Release of Grants under Research Promotion Scheme (RPS) Scheme during the financial year 2012-13.

Sir,

This is to convey the sanction of the Council for payment of Rs. 896667 (Rupees Eight Lakh Ninety Six Thousand Six Hundred Sixty Seven Only) during 2012-13 under the Research Promotion Scheme (RPS) as Grant-in-aid for meeting the expenditure for implementing the Scheme in order to create & update general research capabilities, as per details given below:

1. Name of the Beneficiary Institution (University / College / Institution)	: THIAGARAJAR COLLEGE OF ENGINEERING TIRUPARANKUNDRAM, MADURAI-625015 Tamil Nadu
2. Principal Investigator's Name & Dept.	: Dr. BALAVURUGAN N.B. DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING
3. Grant-in-aid Sanctioned	: Rs. 1030000/-
4. Amount to be Released during the year 2012-13 (100% of non-recurring and recurring of year 1 remaining recurring in year 2 and 3)	: Non Recurring : Rs. 830000/- Recurring (1 <sup>st</sup> Year): Rs. 66667/- Total : Rs. 896667/-
5. Approved Duration	: 3 Years (Three Years)
6. Title of the Project	: MODELLING AND SIMULATION OF MULTI-GATE NANOWIRE TRANSISTORS FOR LOW POWER CMOS APPLICATIONS

- The sanctioned grant-in-aid is debatable to the major 'Head RPS/Plan grant' and is valid for payment during the financial year 2012-13.
- The grant-in-aid of the grant shall be drawn by the Drawing and Disbursing Officer (DDO), All India Council for Technical Education, New Delhi on the Grants-in-aid bill and shall be disbursed to and credited to the account of Director/Registrar/ Principal, THIAGARAJAR COLLEGE OF ENGINEERING TIRUPARANKUNDRAM, MADURAI-625015 Tamil Nadu through RTGS.
- The rate of release of the grant by AICTE shall be taken as the date of commencement of the project. The Principal/Director/Registrar shall intimate about the receipt of the grant to AICTE. Any Expenditure incurred prior the issuance of the approval letter is not allowed to be estimated in the grant and if the University/Institution...



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Pragati Vihar, New Delhi-110003

Ref. No: 20/AICTE/RFD/RPS(POLICY-II)67/2012-13 January 31, 2013

**The Drawing and Disbursing Officer**  
All India Council for Technical Education  
7<sup>th</sup> Floor, Chandralok Building,  
Connaught Place, New Delhi - 110 001.

**Sub: Release of Grants under Research Promotion Scheme (RPS) Scheme during the financial year 2012-13.**

Sir,

This is to convey the sanction of the Council for payment of **Rs. 1066667 (Rupees Ten Lakh SixtySix Thousand Six Hundred SixtySeven Only)** during 2012-13 under the Research Promotion Scheme (RPS) as Grant-in-aid for meeting the expenditure for implementing the Scheme in order to create & update general research capabilities, as per details given below:

1. Name of the Beneficiary Institution (University / College / Institution)	: THIAGARAJAR COLLEGE OF ENGINEERING TIRUPARANKUNDRAM, MADURAI-625015 Tamil Nadu
2. Principal Investigator's Name & Dept	: Dr. MANIKANDAN M S K ELECTRONICS AND COMMUNICATION ENGINEERING
3. Grant-in-aid Sanctioned	: Rs. 1200000/-
4. Amount to be Released during the year 2012-13 (100% of non-recurring and recurring of year 1 remaining recurring in year 2 and 3)	: Non Recurring : Rs. 1000000/- Recurring (1 <sup>st</sup> Year): Rs. 66667/- Total : Rs. 1066667/-
5. Approved Duration	: 3 Years (Three Years)
6. Title of the Project	: PERFORMANCE ANALYSIS OF MOBILE AD-HOC NETWORK SECURITY

- The sanctioned grant-in-aid is debatable to the major "Head RPS/Plan grant" and is valid for payment during the financial year 2012-13
- The grant-in-aid of the grant shall be drawn by the Drawing and Disbursing Officer (DDO), All India Council for Technical Education, New Delhi on the Grants-in-aid bill and shall be disbursed to and credited to the account of **Director/Registrar/Principal, THIAGARAJAR COLLEGE OF ENGINEERING TIRUPARANKUNDRAM, MADURAI-625015 Tamil Nadu** through RTGS.
- The date of release of the grant by AICTE shall be taken as the date of commencement of the project. The **Principal/Director/Registrar** shall intimate about the receipt of the grant to AICTE. Any Expenditure incurred prior the issuance of the approval letter is not allowed to be adjusted in the grant; and if the University/Institution do not take the project work within 3 months of the receipt of the grant, approval shall ipsc facto lapse.





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UNIVERSITY GRANTS COMMISSION  
BAHADURSHAH ZAFAR MARG  
NEW DELHI-110002

392/10  
3

Name of the Sanction : 43-284/2014(SR)

(5057) C/E

GRANT-IN-AID-BILL

30 OCT 2015

1.	NAME OF THE BENEFICIARY INST. / UNIVERSITY / COLLEGE	Thiagarajar College of Engineering, Thirupparankundram, Madurai, Tamil Nadu, India - 625015
2.	SANCTION NO. DATED	E. No.- 43-284/2014(SR)-Dated:- Oct, 2015 E.D. Diary No.- 3920 Dated:- 23.09.2015
3.	AMOUNT SANCTIONED	(a) Sanctioned :Rs. 8,52,000/- (Rupees: EIGHT LAKHS FIFTY TWO THOUSAND ONLY). (b) Adjusted : Nil (c) Net Release : Rs. 8,52,000/- (Rupees: EIGHT LAKHS FIFTY TWO THOUSAND ONLY)
4.	PURPOSE OF GRANT IN AID	MRP - to Dr. V. PRAKASH Electrical and Electronics Engineering Department
5.	HEAD OF ACCOUNT	Head 3(A).49(a).35 Rs. 8,00,000/- Head 3(A).49(a).31 Rs. 52,000/- 131 310 1208
6.	DESIGNATION AND ADDRESS OF THE AUTHORIZED OFFICER	The PRINCIPAL ; Thiagarajar College of Engineering, Thirupparankundram, Madurai, Tamil Nadu, India - 625015
7.	PAYMENT DETAILS	
(a)	Bank Name & Address of Branch	ICICI Bank Ltd., Thiagarajar College of Engg. Branch, Thirupparankundram, Madurai-625015
(b)	Account No.	601301905856
(c)	Type of Account (SB/Current/Cash Credit)	Saving
(d)	IFSC Code	ICIC0000563
(e)	MICR Code of Branch	625229014
(f)	Whether Bank Branch is RTGS of NEFT enabled: RTGS/NEFT/Both	Yes
(g)	Name & Address of Account Holder	The Principal, Thiagarajar College of Engg., Thirupparankundram, Madurai-625015

RECEIVED A SUM OF RS. Rs. 8,52,000/- (Rupees: EIGHT LAKHS FIFTY TWO THOUSAND ONLY) BEING THE AMOUNT SANCTIONED VIDE SANCTION NO. 43-284/2014(SR) DATED Oct, 2015 (COPY ENCLOSED) FOR DISBURSEMENT TO THE PRINCIPAL, Thiagarajar College of Engineering, Thirupparankundram, Madurai, Tamil Nadu, India - 625015. CERTIFIED THAT THE CONDITION OF THE GRANT HAS BEEN ACCEPTED BY THE GRANTEE INSTITUTION. NECESSARY ENTRIES IN CIA/BUDGET CONTROL REGISTER HAVE BEEN MADE.



**THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI-15**  
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13236554, 13236701, 13237121, 13239115  
13234753, 13231117, 13236735, 13239407



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बहादुरशाह जफर मार्ग  
नई दिल्ली-110 002  
UNIVERSITY GRANTS COMMISSION  
BAHADURSHAH ZAFAR MARG  
NEW DELHI-110 002

F. No. 42-130/2013 (SR)

The Under Secretary (FD-III)  
University Grants Commission  
New Delhi-110002

31 MAR 2013

Sub:- UGC support for the Major Research Project in Physical Sciences, Bio-Sciences, Maths, Medical, Agricultural Sciences and Engineering & Chemistry to University/College Teachers – Project entitled, "Scheduling algorithm to minimize the worst case execution time of safety critical applications on multicore processors"

Sr:

I am to refer to your letter forwarding the application of Dr. P. Chitra of your institution for financial assistance under the above scheme and to convey the Commission's approval & sanction an on account grant of Rs. 4,93,500/- (Rupees: four lakh ninety three thousand five hundred only) to the Principal, Thiagarajar College of Engineering, Madurai-625015, TN in the Major Research Project of Dr. P. Chitra, Department of Computer Science for the period of 3 years w.e.f. 1.4.2013 as detailed below:-

S.No	ITEMS	AMOUNT APPROVED	GRANT RELEASED AS 1st INSTALMENT	Category
<b>A.</b>	<b>Non - Recurring</b>		<b>3,50,000/-</b>	<b>GEN</b>
1.	Books & Journals	50,000/- ✓		
2.	Equipment (as per proposal)	3,00,000/-		
<b>B.</b>	<b>Recurring</b>		<b>1,43,500/-</b>	
1.	Honorarium to Retd. Teacher @ Rs. 12,000/- p.m.	nil		
2.	Project Fellow @14,000/- p.m. for initial 2 years and Rs. 16,000/- p.m. from the third year onwards.	nil		
3.	Chemical/ Glassware / Consumable	1,00,000/-		
4.	Hiring Services	75,000/- ✓		
5.	Contingency	35,000/- ✓		
6.	Travel/Field Work	35,000/- ✓		
7.	Special Need	nil		
8.	Overhead Charges @ Rs. 10% approved recurring Grant (Except Travel & Field Work)	21,000/-		
	<b>-Total (A + B)</b>	<b>6,16,000/-</b>	<b>4,93,500/-</b>	

The acceptance Certificate in prescribed format (Annexure-I available on the UGC web-site) may be sent to the undersigned within one month from the issue of the award letter failing which the project may be treated as cancelled.

If the terms & conditions are acceptable, as per guideline which are available on UGC web-site [www.ugc.ac.in](http://www.ugc.ac.in) the Demand Draft/ Cheque being sent may be retained. Otherwise the same may be returned in original to the UGC by Registered Post in variably with in 15 days with the receipt of the Demand Draft/Cheque in favour of Secretary, UGC, New Delhi.



**THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI-15**  
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**ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**  
4<sup>th</sup> Floor, East Tower, N.B.C.C. Place, Bhisam Pitamah Marg,  
Pragati Vihar, New Delhi-110003

Ref. No. 20/AICTE/RIFD/RPS(POLICY-II)66/2012-13 January 31, 2013

The Drawing and Disbursing Officer  
All India Council for Technical Education  
7<sup>th</sup> Floor, Chandralok Building,  
Connaught Place, New Delhi – 110 001.

**Sub: Release of Grants under Research Promotion Scheme (RPS) Scheme during the financial year 2012-13.**

Sir,  
  
This is to convey the sanction of the Council for payment of Rs. 521334 (Rupees Five Lakh TwentyOne Thousand Three Hundred ThirtyFour Only) during 2012-13 under the Research Promotion Scheme (RPS) as Grant-in-aid for meeting the expenditure for implementing the Scheme in order to create & update general research capabilities, as per details given below:

1.	Name of the Beneficiary Institution (University / College / Institution)	: THIAGARAJAR COLLEGE OF ENGINEERING TIRUPARANKUNDRAM, MADURAI-625015 Tamil Nadu
2.	Principal Investigator's Name & Dept.	: Dr. DEISY C COMPUTER SCIENCE ENGINEERING & APPLICATION
3.	Grant-In-aid Sanctioned	: Rs. 564000/-
4.	Amount to be Released during the year 2012-13 (100% of non-recurring and recurring of year 1 remaining recurring in year 2 and 3)	: Non Recurring : Rs. 500000 /- Recurring (1 <sup>st</sup> Year): Rs. 21334/- Total : Rs. 521334/-
5.	Approved Duration	: 3 Years (Three Years)
6.	Title of the Project	: MOBILE BASED CARDIOVASCULAR DISEASE DIANOSIS SYSTEM FOR LRURAL INDIA

1. The sanctioned grant-in-aid is deatable to the major "Head RPS/Plan grant" and is valid for payment during the financial year 2012-13

2. The grant-in-aid of the grant shall be drawn by the Drawing and Disbursing Officer (DDO), All India Council for Technical Education, New Delhi on the Grants-in-aid bill and shall be disbursed to and credited to the account of Director/Registrar/Principal, THIAGARAJAR COLLEGE OF ENGINEERING TIRUPARANKUNDRAM, MADURAI-625015 Tamil Nadu through RTGS.

3. The date of release of the grant by AICTE shall be taken as the date of commencement of the



**THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI-15**  
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**ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**  
4<sup>th</sup> Floor, East Tower, N.B.C.C. Place, Bhisam Pitamah Marg,  
Pragati Vihar, New Delhi-110003

Ref No.: 20/AICTE/RIFD/RPS(POLICY-II)68/2012-13      February 1, 2013

The Drawing and Disbursing Officer  
All India Council for Technical Education  
7<sup>th</sup> Floor, Chandralok Building,  
Connaught Place, New Delhi - 110 001.

Sub: Release of Grants Under Research Promotion Scheme (RPS) Scheme during the financial year 2012-13.

Sir,

This is to convey the sanction of the Council for payment of Rs. 321667 (Rupees Three Lakh TwentyOne Thousand Six Hundred SixtySeven Only) during 2012-13 under the Research Promotion Scheme (RPS) as Grant-in-aid for meeting the expenditure for implementing the Scheme in order to create & update general research capabilities, as per details given below:

1.	Name of the Beneficiary Institution (University / College / Institution)	THIAGARAJAR COLLEGE OF ENGINEERING TIRUPARANKI INDRAM, MADURAI-625015 Tamil Nadu
2.	Principal Investigator's Name & Dept.	Dr. CHITRA P COMPUTER SCIENCE ENGINEERING
3.	Grant-in-aid Sanctioned	Rs. 385000/-
4.	Amount to be Released during the year 2012-13 (100% of non-recurring and recurring of year 1 remaining recurring in year 2 and 3)	Non Recurring : Rs. 300000 /- Recurring (1 <sup>st</sup> Year): Rs. 21667/- Total : Rs. 321667/-
5.	Approved Duration	3 Years (Three Years)
6.	Title of the Project	DETERMINISTIC EXECUTION TIME ANALYSIS OF REAL TIME APPLICATIONS ON MULTICORE ARCHITECTURES.

- The sanctioned grant-in-aid is debatable to the major 'Head RPS/Plan grant' and is valid for payment during the financial year 2012-13
- The grant-in-aid of the grant shall be drawn by the Drawing and Disbursing Officer (DDO), All India Council for Technical Education, New Delhi on the Grants-in-aid bill and shall be disbursed to and credited to the account of Director/Registrar/Principal, THIAGARAJAR COLLEGE OF ENGINEERING TIRUPARANKUNDRAM, MADURAI 625015 Tamil Nadu through RTGS.
- The date of release of the grant by AICTE shall be taken as the date of commencement of the project. The Principal/Director/Registrar shall intimate about the receipt of the grant to AICTE. Any Expenditure incurred prior the issuance of the approval letter is not allowed to be adjusted in the grant and if the University/Institution do not take the project work within 6 months of the receipt of the grant, approval shall ipso facto lapse.



**THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI-15**  
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Annex 3

### Amendment to CARS

By signature of authority identified at (12) below, DRDO hereby amends extant CARS on the Research Service Provider at (1).

1. Short title of CARS <b>Development of Electro-Chemical Machining (ECM) process for Titanium alloy(Ti6Al4V) diaphragm</b>			CARS Number: 13CR007/TRM/12-13/ LP-d/11/0213				
2. Amended RSQR Ref no:	Date of Form:		Issuing DRDO Lab/ Est/ Project:	4. CARS Amendment No	Date of Amendment		
	YY	MM DD					
	2011	12 20	CVRDE, AVADI, Chennai				
3. Name and address of Research Service Provider(RSP): The Principal Thiagarajar College of Engineering, Madurai - 625015							
5. RSP is authorized to substitute/change/add key professionals/research consultants as follows: <table border="0"> <tr> <td>Dr.S. Balaji Department of Chemistry, Thiagarajar College of Engineering, Madurai - 625015. E-mail: sbalaji@tce.edu</td> <td>Dr.M. Palaninatharaja, Department of Mechanical Engineering, Thiagarajar College of Engineering, Madurai - 625015. E-mail: mpnatharaj@tce.edu</td> </tr> </table>						Dr.S. Balaji Department of Chemistry, Thiagarajar College of Engineering, Madurai - 625015. E-mail: sbalaji@tce.edu	Dr.M. Palaninatharaja, Department of Mechanical Engineering, Thiagarajar College of Engineering, Madurai - 625015. E-mail: mpnatharaj@tce.edu
Dr.S. Balaji Department of Chemistry, Thiagarajar College of Engineering, Madurai - 625015. E-mail: sbalaji@tce.edu	Dr.M. Palaninatharaja, Department of Mechanical Engineering, Thiagarajar College of Engineering, Madurai - 625015. E-mail: mpnatharaj@tce.edu						
6. Principal technical features of research service provided by RSP are amended to read: - Nil							
7. List of DRDO-owned equipment provided by RSP are amended to read: - Nil							
8. Date of submission of final report is amended to read:					22/11/2017		
9.1 Expenditure on items below shall not exceed amended sums shown against each					Rs.		
a) Personal Project fellow (Rs.16,000 x 14 months x 2 Persons)					2,80,000.00		
b) Equipment:					3,00,000.00		
c) Others					13,68,654.60		
Total:					19,48,654.60		
9.2 Amended schedule of payments (Rs.)					Date		
c) Initial advance (30% of project cost exclusive of service tax)					Paid at the beginning of the project(22/03/2013)		
b) After establishing machining (20% of project cost exclusive of service tax)					3 months		
c) At performance milestone I of RSQR (20% of project cost exclusive of service tax)					9 months		
d) At performance milestone II of RSQR (20% of project cost exclusive of service tax)					53 months (22/08/2017)		
e) On submission of final report (10% of project cost exclusive of service tax & service tax)					56 months (22/11/2017)		
Total:					19,48,654.60		
9. Payments will be made within 45 days of receipt by L1EP of contingent bill.							
10. General conditions of CARS remain unchanged unless specific conditions in CARS are amended to read: Nil							
11. RSP's Signatory to original contract: (sign and seal)			12. Signature of L1EP contract administrator:				
(Sign over seal) Name: <b>Dr. V. ABHAIKUMAR</b> PRINCIPAL Thiagarajar College of Engineering Madurai-625015			 Name: <b>Dr. P. SIVA KUMAR</b> Designation: <b>DIRECTOR, CVRDE</b> विदेश विभाग / Distinguished Scientist विदेश / Director				



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2326351, 2326351, 2326351, 2326351, 2326351, 2326351, 2326351, 2326351, 2326351, 2326351

F. No. 41-552/2012 (SR)

The Under Secretary (FD-II)  
 University Grants Commission  
 New Delhi-110002


 23 JUL 2012  
 MADURAI-625015

विद्याविधायक वानुषांग आयोग  
 बहमदुरशाह जफर मार्ग  
 दिल्ली-110 002  
 UNIVERSITY GRANTS COMMISSION  
 BAHADURSHAH ZAFAR MARG  
 NEW DELHI-110 002

17 JUL 2012

Subj: UGC support for the Major Research Project in Physical Sciences, Bio-Sciences, Maths, Medical, Agricultural Sciences and Engineering & Chemistry in University/College teachers - Project entitled "Intelligent surveillance system for Human action analysis"

Sir,

I am in refer to your letter forwarding the application of Dr. B. Yogameena of your institution for financial assistance under the above scheme and to convey the Commission's approval & sanction on account grant of Rs. 7,41,800/- (Rupees seven lakh forty one thousand eight hundred only) to the Principal, Thiagarajar College of Engineering, Madurai-625015, TN in r/o Major Research Project of Dr. B. Yogameena, Department of Electronics for the period of 3 years w.e.f. 1.7.2012 as detailed below:-

S.No	ITEMS	AMOUNT APPROVED	GRANT RELEASED AS 1st INSTALMENT	Category
<b>A. Non - Recurring</b>				
1.	Books & Journals		4,00,000/-	GEN
2.	Equipment (as per proposal)	nil 4,00,000/-		
<b>B. Recurring</b>				
1.	Honarium to Retd. Teacher @ Rs. 12,000/- p.m.		3,41,800/-	
2.	Project Fellow @ 4,000/- p.m. for initial 2 years and Rs. 16,000/- p.m. from the third year onwards.	nil 5,28,000/-		
3.	Chemical/Glassware / Consumable			
4.	Hiring Services	nil		
5.	Contingency	nil		
6.	Travel/Field Work	nil		
7.	Special Need	50,000/-		
8.	Overhead Charges @ Rs. 10% approved recurring Grant (Except Travel & Field Work)	32,800/-		
<b>Total (A + B)</b>		<b>10,30,800/-</b>	<b>7,41,800/-</b>	

The acceptance Certificate in prescribed format (Annexure-I available on the UGC web-site) may be sent to the undersigned within one month from the issue of the award letter failing which the project may be treated as cancelled.

If the terms & conditions are acceptable, as per guidelines which are available on UGC web-site [www.ugc.ac.in](http://www.ugc.ac.in) the Demand Draft/ Cheque being sent may be retained. Otherwise the same may be returned in original to the UGC by Registered Post invariably within 15 days from the receipt of the Demand Draft/Cheque in favour of Secretary, UGC, New Delhi.

Principal Investigator should ensure that the statement of expenditure & utilization Certificate to the effect that the grant has been utilized for the purpose for which it has been sanctioned shall be submitted to the Commission in time.




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 NEW DELHI-110 002

  
 23 JUL 2012  
 MADURAI-625 015

F. No. 41-602/20/2 (SR)

The Under Secretary (FD-III)  
 University Grants Commission  
 New Delhi-110002

Sub:- UGC support for the Major Research Project in Physical Sciences, Bio-Sciences, Maths, Medical, Agricultural Sciences and Engineering & Chemistry to University/College Teachers- Project entitled, "Nano transmission line analysis for interconnected applications"

Sir,

I am to refer to your letter forwarding the application of Dr. (Mrs.) S. Kanthamani of your institution for financial assistance under the above scheme and to convey the Commission's approval & sanction as on account grant of Rs. 11,03,800/- (Rupees eleven lakh three thousand eight hundred only) to the Principal, Thiagarajar College of Engineering, Madurai-625006, TN in r/o Major Research Project of Dr. (Mrs.) S. Kanthamani, Department of Electronics for the period of 3 years w.e.f. 1.7.2012 as detailed below:-

S.No	ITEMS	AMOUNT APPROVED	GRANT RELEASED AS 1st INSTALMENT	Category
<b>A. Non - Recurring</b>				
1.	Books & Journals		7,20,000/-	OBC
2.	Equipment (Software, computer & printer)	20,000/-		
<b>B. Recurring</b>				
1.	Honarium to Retd. Teacher @Rs 12 000/- p.m.	nil	3,83,800/-	
2.	Project Fellow @14,000/- p.m. for initial 2 years and Rs 16,000/- p.m. from the third year onwards.	5,28,000/-		
3.	Chemical/Glassware/ Consumable	nil		
4.	Hiring Services	nil		
5.	Contingency	60,000/-		
6.	Travel/Field Work	10,000/-		
7.	Special Need	50,000/-		
8.	Overhead Charges @ Rs. 10% approved recurring Grant (except Travel & Field Work)	59,800/-		
<b>Total (A + B)</b>		<b>14,27,800/-</b>	<b>11,03,800/-</b>	

The acceptance Certificate in prescribed format (Annexure-I available on the UGC web-site) may be sent to the undersigned within one month from the issue of the award letter filling which the project may be treated as cancelled.

If the terms & conditions are acceptable, as per guideline which are available on UGC web-site [www.ugc.ac.in](http://www.ugc.ac.in) the Demand Draft/ Cheque being sent may be retained. Otherwise the same may be returned in original to the UGC by Registered Post in variably with in 15 days from the receipt of the Demand-Draft/Cheque in favour of Secretary, UGC, New Delhi.


Principal Investigators should ensure that the statement of expenditure & utilization Certificate to the effect that the grant has been utilized for the purpose for which it has been sanctioned shall be furnished to the University Grants Commission in time.

17 JUL 2012



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 नई दिल्ली-110 002  
 UNIVERSITY GRANTS COMMISSION  
 BAHADURSHAH ZAFAR MARG  
 NEW DELHI-110 002

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 18 JUL 2012

F. No. 41-601/2012 (SR)  
 The Under Secretary (FD- II)  
 University Grants Commission  
 New Delhi-110007

Subj: UGC support for the Major Research Project in Physical Sciences, Bio-Sciences, Maths , Medical Agricultural Sciences and Engineering & Chemistry to University/College Teachers – Project entitled,  
**“Efficient channel navigator in internet protocol television (IPTV) using a novel frequency interleaved ordering scheme”**

Sr.  
 I am to refer to your letter forwarding the application of **Dr. MSK Manikandas** of your institution for financial assistance under the above scheme and to convey the Commission's approval & sanction on account grant of **Rs. 7,41,800/- (Rupees: seven lakh forty one thousand eight hundred only)** to the Principal, Thiagarajar College of Engineering, Madurai-625015, TN in the Major Research Project of **Dr. MSK Manikandas**, Department of Electronics for the period of 3 years w.e.f. 1./2012 as detailed below:-

S.No	ITEMS	AMOUNT APPROVED	GRANT RELEASED AS 1st INSTALMENT	Category
<b>A.</b>	<b>Non - Recurring</b>		<b>4,00,000/-</b>	OBC
1.	Books & Journals	nil		
2.	Equipment (as per proposal)	4,00,000/-		
<b>B.</b>	<b>Recurring</b>		<b>3,41,800/-</b>	OBC
1.	Honourarium to Retd. Teacher @ Rs. 12,000/- p.m.	nil		
2.	Project Fellow @14,000/- p.m. for initial 2 years and Rs. 16,000/- p.m. from the third year onwards.	5,28,000/-		
3.	Chemical/Glassware/ Consumable	nil		
4.	Hiring Services	nil		
5.	Contingency	nil		
6.	Travel/Field Work	50,000/-		
7.	Special Need	nil		
8.	Overhead Charges @ Rs. 10% approved remaining Grant (Except Travel & Field Work)	52,800/-		
	<b>Total (A + B)</b>	<b>10,30,800/-</b>	<b>7,41,800/-</b>	

The acceptance Certificate in prescribed format (Annexure-I available on the UGC web-site) may be sent to the undersigned within one month from the issue of the award letter failing which the project may be treated as cancelled.

If the terms & conditions are acceptable, as per guideline which are available on UGC web-site [www.ugc.ac.in](http://www.ugc.ac.in) the Demand Draft/ Cheque being sent may be returned. Otherwise the same may be returned in original to the UGC by Registered Post in variety with in 15 days from the receipt of the Demand Draft/Cheque in favour of Secretary, UGC, New Delhi.


Principal Investigators should ensure that the statement of expenditure & utilization of the grant be submitted to the undersigned within the stipulated time.





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बहादुरशाह जफर मार्ग  
नई दिल्ली-110 002  
UNIVERSITY GRANTS COMMISSION  
BAHAUDURSHAH ZAFAR MARG  
NEW DELHI-110 002

13280551, 13281701, 13287721, 13284414  
13281733, 13281317, 13286734, 13279847

24 JUL 2012

F. No. 41-605/2012 (SR)

The Under Secretary (FD-III)  
University Grants Commission  
New Delhi-110002

17 JUL 2012

Sub:- UGC support for the Major Research Project in Physical Sciences, Bio-Sciences, Maths, Medical, Agricultural Sciences and Engineering & Chemistry to University/College Teachers – Project entitled, “Synthesis of Dual band bandpass filter using particle swarm optimization techniques for wireless applications”

Sir,

I am to refer to your letter forwarding the application of Dr. A. Thenmozhi of your institution for financial assistance under the above scheme and to convey the Commission's approval & sanction in an account grant of Rs. 5,27,800/- (Rupees: five lakh twenty seven thousand eight hundred only) to the Principal, Thiagarajar College of Engineering, Madurai-625015, TN in r/o Major Research Project of Dr. A. Thenmozhi, Department of Electronics for the period of 3 years w.e.f. 1.7.2012 as detailed below:-

S.No	ITEMS	AMOUNT APPROVED	GRANT RELEASED AS 1st INSTALMENT	Categ ory
<b>A.</b>	<b>Non - Recurring</b>		<b>75,000/-</b>	GEN
1.	Books & Journals	25,000/-		
2.	Equipment (Computer)	50,000/-		
<b>B.</b>	<b>Recurring</b>		<b>4,52,800/-</b>	
1.	Honorarium to Retd. Teacher @ Rs. 12,000/- p.m.	nil		
2.	Project Fellow @ 14,000/- p.m. for initial 2 years and Rs. 16,000/- p.m. from the third year onwards,	5,78,000/-		
3.	Chemical/ Glassware / Consumable	2,00,000/-		
4.	Hiring Services	nil		
5.	Contingency	10,000/-		
6.	Travel/Field Work	20,000/-		
7.	Special Need	nil		
8.	Over-head Charges @ Rs. 10% approved recurring Grant (Except Travel & Field Work)	73,800/-		
	<b>Total (A + B)</b>	<b>9,06,800/-</b>	<b>5,27,800/-</b>	

The acceptance Certificate in prescribed format (Annexure-I available on the UGC web-site) may be sent to the undersigned within one month from the issue of the award letter failing which the project may be treated as cancelled.

If the terms & conditions are acceptable, as per guideline which are available on UGC web-site [www.ugc.ac.in](http://www.ugc.ac.in) the Demand Draft/ Cheque being sent may be retained. Otherwise the same may be returned in original to the UGC by Registered Post in variably with in 15 days from the receipt of the Demand Draft/Cheque in favour of Secretary, UGC, New Delhi.

Principal Investigators should ensure that the statement of expenditure & utilization Certificate to the effect that the grant has been utilized for the purpose for which it has been sanctioned shall be furnished to the University Grants Commission in time.



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UNIVERSITY GRANT COMMISSION  
 BAHADUR SHAH ZAFAR MARG  
 NEW DELHI - 110002

FD Diary No. 254  
 Dated: 05/05/2015

F.No.41-589/2012/(SR)  
 The Under Secretary (FD-III)  
 University Grants Commission  
 Bahadur Shah Zafar Marg  
 New Delhi - 110002

Dated: June, 2015  
**18 JUN 2015**

**Sub:** Release of Grant-in aid to, **Thiagarajar College of Engineering, Madurai- 625015, (TN)** for the year 2015-16 under plan in respect of Major Research Project entitled "Vibration environment" awarded to **Dr. L.P. Karim**, Deptt. of Electronics, tenure of project from 1.7.2012 to 31.12.2015.

I am directed to convey the sanction of the University Grants Commission for payment of grant of **Rs. 8,000/- (Rupees Eight thousand only)** as 2<sup>nd</sup> installment for the year 2015-16 towards Major Research Project to **The Principal, Thiagarajar College of Engineering, Madurai-625015, (TN)** for the plan expenditure to be incurred during 2015-16.

I am also directed to say that the tenure of the above project has been extended by the UGC for six months from 30.06.2015 to 31.12.2015 without any financial assistance for the extended period.

Name of the Item	Amount Allocated	Head of Account	Grant now Being Sanctioned	Grant already Released	Total Grant
Books & Journal	30,000/-	3(A)2202.03.102.10.01.35	.....	30,000/-	30,000/-
Equipment	10,50,000/-		.....	10,50,000/-	10,50,000/-
Honorary	.....		.....	.....	.....
Project Fellow	.....	3(A)2202.03.102.10.01.31	.....	.....	.....
HRA	.....	(49/A)	.....	.....	.....
Chemical	80,000/-		.....	40,000/-	40,000/-
Contingency	20,000/-		8,000/-	10,000/-	18,000/-
Hiring Services	.....		.....	.....	.....
Travel/field work	20,000/-		.....	10,000/-	10,000/-
Overhead Charges	10,000/-		.....	10,000/-	10,000/-
Additional grant	.....		.....	.....	.....
<b>Total</b>	<b>12,10,000/-</b>		<b>8,000/-</b>	<b>11,50,000/-</b>	<b>11,53,000/-</b>



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 - where Quality and Ethics matter



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11	ISPG_UG_09	Performance study of integrated vapor compression refrigeration and bubble column humidifier operated with bio mass	49000	Chandra	Yes	South	Madurai Chapter	THIAGARAJAR COLLEGE OF ENGINEERING
12	ISPG_UG_132	Design & Fabrication Of Silicon Disc Dehumidifier	45000	RVSS	Yes	West	Mumbai Chapter	Lokmanya Tilak College Of Engineering
13	ISPG_UG_50	Design and fabrication of Smart Air Cooler system using Thermoelectric cooling with integrated PCM [Phase Change Material].	45000	Chandra	Yes	West	Nagpur Chapter	Priyadarshini Institute of Engineering and Technology,
14	ISPG_UG_116	Solar direct refrigeration system design	50000	Manoj	Yes	West	Pune Chapter	College of Engineering
15	ISPG_UG_118	Biogas Reformation for Syngas using Catalysis.	50000	Dr.Bhr amara	Yes	West	Thane Chapter	Don Bosco Institute of Technology
16	ISPG_UG_12	Design and Development of Thermoacoustic Refrigerator	49000	Dr.Bhr amara	Yes	West	Vadodara Chapter	A.D Patel Institute of Technology
17	ISPG_UG_27	Fabrication of Solar Powered Chill- Brella	50000	Manoj	Yes	South	Vijayawada Sub Chapter	PVP Siddhartha Institute of Technology



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No. SR/FIP/ETA-49/2012  
Science and Engineering Research Board  
(SERB)

Technology Bhavan  
New Mehrauli Road  
New Delhi 110016  
21.12.2012

**ORDER**

**Subject:** Financial assistance for research project under FAST TRACK SCHEME FOR YOUNG SCIENTIST entitled "*Intelligent Video surveillance system for crowd density estimation and human abnormal action analysis*" by Dr. B. Yogameena, Asstt. Prof., Dept. of Electronics and Communication Engineering, Thiagarajar College of Engineering, Madurai - 625015, Tamilnadu-Release of 1<sup>st</sup> installment.

Sanction of the SERB is hereby accorded to the above mentioned project at a total cost of Rs. 10,70,000/- (Rupees ten lakhs seventy thousand only) with the break-up of Rs. 7,45,000/- under Capital head and Rs. 3,25,000/- under General head for a duration of 3 years. The items of expenditure for which the total allocation of Rs. 10,70,000/- has been approved for 3 years are given as below :-

Sl No	Head	(Amount in Rs) Total
A	Non-recurring (Capital Items)	
I	Prm: Equipment: FTZ camera, Network video Recorder, LCD Monitor, Video Analytics, Surge Protector, Power Supply, Server.	7,45,000/-
A'	Total (Capital)	7,45,000/-
B	Recurring (General Items)	
I	Consumables	50,000/-
II	Contingency	40,000/-
III	Travel (attending GMW meetings)	50,000/-
IV	Over Heads	1,85,000/-
B'	Total (General)	3,25,000/-
C	Grand Total (A'+B')	10,70,000/-

*S. Suresh Kumar*

- Overhead expenses are meant for the host Institute towards the cost for providing infrastructural facilities and benefits to the staff employed in the project, etc.
- Sanction of the SERB is also accorded to the payment of Rs. 7,95,000/- (Rupees seven lakhs ninety five thousand only) with the break-up of Rs. 7,45,000/- (Rupees seven lakhs forty five thousand only) under head 'Grants for creation of capital assets' (46.01.35) and Rs. 50,000/- (Rupees fifty thousand only) under head 'Grants-in-aid General (46.01.31)' to the Principal, Thiagarajar College of Engineering, Madurai-625015, Tamilnadu being the first installment of grant for the year 2012-13 for implementation of the above said project.
- Sanction of the grant is subject to the conditions as detailed in Annexure-I.
- The amount of Rs. 7,95,000/- (Rupees seven lakhs ninety five thousand only) will be drawn by the Drawing and Disbursing Officer, SERB and will be disbursed to the Principal, Thiagarajar College of Engineering, Madurai - 625015, Tamilnadu by means of an A/C payee cheque.
- The Institute will furnish to the SERB Utilization Certificate (U/C) and audited Statement of Expenditure pertaining to the grant immediately after the end of each financial year.
- All purchases of equipments etc. would be as per GFR and the disposal of the same would be done



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7316351, 7317304, 7322771, 7322818  
 7316712, 7322217, 7322608, 7322647



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 महापुरवाह चक्र मार्ग  
 नई दिल्ली-110 002  
 UNIVERSITY GRANTS COMMISSION  
 BANAHURSHAH ZAFAR MARG  
 NEW DELHI-110 002

F. No. 41-80/2012 (SR)

The Under Secretary (FD-III)  
 University Grants Commission  
 New Delhi-110002

18 JUL 2012

Sub- UGC support for the Major Research Project in Physical Sciences, Bio-Sciences, Maths, Medical, Agricultural Sciences and Engineering & Chemistry to University/College Teachers - Project entitled, "Semi Graph structure in DNA computing"

Sir,

I am to refer to your letter forwarding the application of Dr. S. Jaya Bharathi of your institution for financial assistance under the above scheme and to convey the Commission's approval & sanction an amount of Rs. 6,10,000/- (Rupees six lakh ten thousand only) to the Principal, Thiagarajar College of Engineering, Madurai-625015, TN in no Major Research Project of Dr. S. Jaya Bharathi, Department of Maths for the period of 3 years w.e.f. 1.7.2012 as detailed below:

S.No	ITEMS	AMOUNT APPROVED	GRANT RELEASED AS INSTALMENT	Category
<b>A. Non - Recurring</b>				
1.	Books & Journals	60,000/-	4,90,000/-	OBC
2.	Equipment (computer, software)	4,30,000/-		
<b>B. Recurring</b>				
1.	Fictonarium to Read Teacher @ Rs. 12,000/- p.m.	nil	1,20,000/-	
2.	Project Fellow @ (4,000/- p.m. for initial 2 years and Rs. 16,000/- p.m. from the third year onwards.	nil		
3.	Chemical Glassware/ Consumable	nil		
4.	Hiring Services	50,000/-		
5.	Contingency	1,00,000/-		
6.	Travel/Field Work	60,000/-		
7.	Special Need	nil		
8.	Overhead Charges @ Rs. 10% approved recurring Grant (Except Travel & Field Work)	15,000/-		
<b>Total (A + B)</b>		<b>7,15,000/-</b>	<b>6,10,000/-</b>	

The appropriate Certificate in prescribed format (Annexure-1 available on the UGC web-site) may be sent to the undersigned within one month from the issue of the award letter failing which the project may be treated as cancelled.

If the terms & conditions are acceptable, as per guidelines which are available on UGC web-site [www.ugc.ac.in](http://www.ugc.ac.in) the Demand Draft/ Cheque being sent may be retained. Otherwise the same may be returned in original to the UGC by Registered Post in variability with in 15 days from the receipt of the Demand Draft/Cheque in favour of Secretary, UGC, New Delhi.

Principal Investigators should ensure that the statement of expenditure & utilization Certificate to the effect that the grant has been utilized for the purpose for which it has been sanctioned shall be furnished to the University Grants Commission in time.

The first instalment of the grant shall comprise of 100% of the Non -Recurring including Over Head Charges, and 50% of the total Recurring grant.



**THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI-15**  
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विश्वविद्यालय अनुदान आयोग  
 उच्चाध्यक्ष भवन मार्ग  
 110 015-110 002  
 UNIVERSITY GRANTS COMMISSION  
 RAJABHAI BLDG, JALSAHAR MARG  
 NEW DELHI-110 002

23 JUL 2012

U.G. No. 41-994/2012 (SR)

The Under Secretary (I-U-II)  
 University Grants Commission  
 New Delhi-110002

Sd/- UGC support for the Major Research Project in Physical Sciences, Bio Sciences, Maths., Medical, Agricultural Sciences and Engineering & Chemistry in University/College Teachers - Project entitled,  
 "Development of encapsulated phosphor materials for phosphor converted white light emitting diode (pc-WLEDs) for energy saving lighting systems"

Sr/-

1. Refers to your letter forwarding the application of Dr. M. Kottaisamy of your institution for financial assistance under the above scheme and to advise the Commission's approval & sanction an account grant of Rs. 9,76,600/- (Rupees: nine lakh seventy six thousand six hundred only) to the Principal, Thiagarajar College of Engineering, Madurai-625015, TN in the Major Research Project of Dr. M. Kottaisamy, Department of Physics for the period of 2 years w.e.f. 1.7.2012 as detailed below:-

S.No	ITEMS	AMOUNT APPROVED	GRANT RELEASED AS 1st INSTALLMENT	Category
<b>A.</b>	<b>Non - Recurring</b>		<b>7,00,000/-</b>	<b>R.C.</b>
1	Books & Journals	Nil		
2	Equipment (As per proposal)	7,00,000/-		
<b>B.</b>	<b>Recurring</b>			
1	Stipendium to Retd. Teacher @ Rs. 12,000/- p.m.	Nil		
2	Project Fellow @ 14,000/- p.m. for initial 2 years and Rs. 10,000/- p.m. from the third year onwards.	3,36,000/-		
3	Chemical/Glassware/Consumable	50,000/-	<b>2,76,600/-</b>	
4	Printing Services	Nil		
5	Contingency	50,000/-		
6	Travel-Field Work	30,000/-		
7	Special Need	Nil		
8	Overhead Charges @ Rs. 10% approval recurring Grant (Excl. Travel & Field Work)	43,600/-		
	<b>Total (A + B)</b>	<b>12,09,600/-</b>	<b>9,76,600/-</b>	

The acceptance Certificate in prescribed format (Annexure-I) available on the UGC web site may be sent to the undersigned within one month from the issue of the award letter failing which the process may be treated as cancelled.

If the terms & conditions are acceptable, as per guideline which are available on UGC web-site www.ugc.ac.in, the Demand Draft/ Cheque being sent may be retained. Otherwise the same may be returned in original to the UGC by Registered Post invariably within 15 days from the receipt of the Demand Draft/Cheque in favour of Secretary, UGC, New Delhi.

Principal Investigator should ensure that the statement of expenditure & utilization Certificate to the effect that the grant has been utilized for the purpose for which it has been sanctioned shall be furnished to the University/Institution/Commissioner.

The first instalment of the grant shall comprise of 100% of the Non -Recurring including Over Head Charges, and 50% of the total Recurring grant.



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*HoDIT PI-discuss urgent was*

**अखिल भारतीय तकनीकी शिक्षा परिषद्**  
**ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**  
(भारत सरकार का एक चांविधिक निकाय) (A STATUTORY BODY OF THE GOVT. OF INDIA)

**Dr. Shiv Kumar Dubey**  
Dy. Director (RIFD)

**F.No.20/AICTE/RIFD/RPS(Policy-II)65/2012-13**  
Dated: 18.11.2015

To

The Principal,  
Thiagarajar College of Engineering,  
Tiruparankundram, Madurai,  
Tamil Nadu – 625015.



Sub: **Change of Principal Investigator - RPS project entitled "Design and Development of Stego ..... using Multicore Environment"**.

Sir,

This is with reference to your Letter no. TCE/IT/AICTE/RPS dated 02.07.2015 on the subject cited above.

On the basis of the re-evaluation and recommendation of an Expert Committee, the approval of AICTE is hereby conveyed for change of Principal Investigator for the project entitled "**Design and Development of Stego ..... using Multicore Environment**" to Dr. S. Muthuramalingam, Associate Professor to engage as the project P.I. and Mr. M. Thangavel, Assistant Professor as Co-PI **subject to submission Consent letter of P.I. (Dr. Geetha S.)**. Change of PI will come into effect on submission of this document.

You are also requested to submit Annual Progress Report, Utilisation Certificate, Auditd U.C., Form GFR-19, Receipt & Payment A/c showing interest, attested copies of equipment purchase bill along with copy of stock entry registrar at the earliest. All the documents should be attested by the Head of the Institute.

Sincerely yours,

  
(Shiv Kumar Dubey)



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SR/FTP/PS-106/2010  
**Science and Engineering Research Board**  
(A Statutory Body under Department of Science and Technology)

Technology Bhavan  
New Mehrauli Road  
New Delhi - 110 016.

Dated **20.03.2012**

**ORDER**

Subject- Financial assistance for the research project entitled "Development of  $\text{LiFePO}_4/\text{C}$ ,  $\text{Li}_2\text{FeSiO}_4/\text{C}$  based composite positive electrodes and  $\text{LiTi}_5\text{O}_{12}$  based negative electrode for high power Lithium ion battery applications" by Dr. S Balaji, Department of Chemistry, Thiagarajar College of Engineering, Madurai - 625 015, Tamil Nadu.

Sanction of the Science and Engineering Research Board (SERB) is hereby accorded to the above-mentioned project at a total cost of Rs. 7,44,000/- (Rupees seven lakh forty four thousand only) with break-up of Rs. 2,40,000/- under Capital head and Rs. 5,04,000/- under General head for a duration of three years. The items of expenditure for which the total allocation of Rs. 7,44,000/- has been approved for a period of three years, are given below:

(Amount in Rs.)

Sl. No.	Head	1 <sup>st</sup> Year	2 <sup>nd</sup> Year	Total
A	Non-recurring (Capital Items)			
1.	Minor Equipment Annealing furnace	2,40,000/-	Nil	2,40,000/-
A'	Total (Capital)	2,40,000/-	Nil	2,40,000/-
B	Recurring Items (General)			
1.	Consumables	1,50,000/-	1,50,000/-	3,00,000/-
2.	Travel	20,000/-	20,000/-	40,000/-
3.	Contingencies	20,000/-	20,000/-	40,000/-
4.	Overhead Charges	60,000/-	64,000/-	1,24,000/-
B'	Total (General)	2,50,000/-	2,54,000/-	5,04,000/-
C	Total cost of the project (A' + B')			7,44,000/-

2. Overhead expenses are meant for the host institute towards the cost for providing infrastructural facilities in the project etc.

3. The sanction of the Board is also accorded to the payment of Rs. 2,40,000/- (Rupees two lakh forty thousand only) under 'Grants for creation of capital assets' and Rs. 2,60,000/- (Rupees two lakh fifty thousand only) under 'Grants-in-aid General' to the Principal, Thiagarajar College of Engineering, Madurai - 625 015, Tamil Nadu being the first installment of the grant for the year 2011-12 for implementation of the said research project.

4. Sanction of the grant is subject to the conditions as detailed in Annexure - I.

5. The amount of Rs. 4,90,000/- (Rupees four lakh ninety thousand only) meant for both 'Grants-in-aid General' and 'Grants for creation of capital assets' will be drawn by the Drawing and Disbursing Officer of the SERB will be disbursed to the Principal, Thiagarajar College of Engineering, Madurai - 625 015, Tamil Nadu.






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 विषयविद्यालय अनुदान आयोग  
 बहदुरशाह जफर मार्ग  
 नई दिल्ली-110 002  
 UNIVERSITY GRANTS COMMISSION  
 BAHADURSHAH ZAFAR MARG  
 NEW DELHI-110 002

1323651, 1323701, 13237721 2324114  
13234933, 13232897, 13234935 23239437

F. No. 40-3/2011 (SR)

The Under Secretary (FD-III)  
University Grants Commission  
New Delhi-110002

27 JUN 2011

Sub: UGC support for the Major Research Project in Physical Sciences, Bio-Sciences, Maths, Medical, Agricultural Sciences and Engineering & Chemistry to University/College Teachers – Project entitled, **"GSM Based ECC Tele-alert system"**

I am to refer to your letter forwarding the application of Dr. (Mrs.) R. Sukanesh of your institution for financial assistance under the above scheme and to convey the Commission's approval & sanction an account grant of Rs. 3,97,800/- (Rupees: Three lakh ninety seven thousand eight hundred only) to the Principal, Thiagarajar College of Engineering, Madurai in r/o Major Research Project of Dr. (Mrs.) R. Sukanesh, Department of Electronics for the period of 3 years w.e.f. 1.7.2011 as detailed below:-

S.No.	ITEMS	AMOUNT APPROVED	GRANT RELEASED AS 1st INSTALMENT
<b>A.</b>	<b>Non - Recurring</b>		
1.	Books & Journals	nil	2,00,000/-
2.	Equipment (As per proposal)	2,00,000/-	
<b>B.</b>	<b>Recurring</b>		
1.	Honorarium to Resid. Teacher @ Rs. 12, 000/- p.m.	nil	1,97,800/-
2.	Project Fellow @ 8, 000/- p.m.	2,88,800/-	
3.	Chemical/ Glassware / Consumable	23,000/-	
	Hiring Services	nil	
	Contingency	nil	
6.	Travel/Field Work	20,000/-	
7.	Overhead Charges @ Rs. 10% approved recurring Grant (Except Travel & Field Work)	31,300/-	
	<b>Total (A + B)</b>	<b>5,64,300/-</b>	<b>3,97,800/-</b>

The acceptance Certificate in prescribed format attached Annexure I may be sent to the undersigned within one month from the issue of the award letter failing which the project may be treated as cancelled.

If the terms & conditions are acceptable, as per guideline which are available on UGC web-site [www.ugc.ac.in](http://www.ugc.ac.in) the Demand Draft/ Cheque being sent may be retained. Otherwise the same may be returned in original to the commission by Registered Post invariably within 15 days from the receipt of the Demand Draft/Cheque.



**THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI-15**  
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*Rajji/Sajeev  
Balaji  
PI discuss  
to  
will present it*

Small: erip\_er@hq.drdo.in  
Tele: 011-23007348, 2301766  
Telefax: 011-23017582

Defence Res & Dev Organ(DRDO) HQ  
Directorate of Extramural Research &  
Intellectual Property Rights (ER&IPR)  
'B' Wing, DRDO Bhawan, CHQ PC  
Rajaji Marg, New Delhi - 110011

Dated: 28 Sep, 2011

To  
Dr. V. Abhaikumar, Principal  
Thiagarajar College of Engineering  
Thiruparankundram  
Madurai - 625015  
T.N.

Sub: Grants-in-Aid for research project titled "Synthesis & Characterization of Magneto Dielectric Substrates for Microwave Antenna Applications".

Approval of the Competent Authority is hereby accorded for a grant of Rs. 20.86 Lakh (Rupees Twenty Lakh Eighty Six Thousand Only) to Thiagarajar College of Engineering, Thiruparankundram, Madurai for pursuing the research on the subject titled project by Dr. V. Abhaikumar, Thiagarajar College of Engineering, Thiruparankundram Madurai- 625015, as Principal investigator and Prof. S. Raju, Dept of ECE and Dr.S. Balaji, Dept of Chemistry of same institute as Co-Investigators.

2. The grant shall be spent as follows:

Expenditure on → (Rs in lakh) during →	Year 1	Year 2	Line Total
a) Staff : SRF - 01 @ Rs. 18,000/- p.m. + 15% HRA	2.40	2.40	4.80
b) Equipment (including spares thereof)	9.00	-	9.00
c) Operation and maintenance	-	-	-
d) Expendables	1.50	1.00	2.50
e) Travel (Domestic)	0.75	0.75	1.50
f) Contingencies	0.50	0.50	1.00
g) Visiting faculty or Research Consultant	-	-	-
h) Procured services (other than (g)) and metered utilities	-	-	-
i) Institutional Overheads Charges 10% on (a) only	1.415	0.415	1.83
Column Totals	15.65	5.21	20.86

3. Grand total : Rs 20.86 Lakh (Rupees Twenty Lakh Eighty Six Thousand Only).

3. The project will last for Two years from the date of receipt of the first Cheque by the grantee institute.

4. The grantee institution may use savings in expenditure on any head (a) to (f) above to augment another upto 10% from one component to another with a provision that increase against any component does not exceed 10% of original cost. Prior approval of DRDO shall be required to augment by more than ten per cent. Any extra payment without the prior approval of DRDO will be borne by the Grantee Institute.

5. DRDO reserve the right to terminate the grant at any stage, if convinced that the grant has not been properly utilized or appropriate progress has not been made/achieved.

6. The PI will submit closure reports (05 copies) to DRDO within 30 days of completion/ closure/termination of Project. The report must be attached with all necessary certificates and financial information.


7. In case of an PI leaving the Institution or going abroad etc, the Executive authority of the grantee institution to whom the Project has been sanctioned will ensure that the PI submits detailed technical and financial report on the work done before his/her relieve.

8. The grantee institution may publicize this grant only with the prior approval of DRDO.



**THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI-15**  
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UNIVERSITY GRANT COMMISSION  
BAHADUR SHAH ZAFAR MARG  
NEW DELHI 110002

FD Diary No. 6813  
Dated : 22/12/2014

6 JAN 2015

F. No. 40-285/2011(SR) Dated: December 2014

The Under Secretary (FD-III)  
University Grants Commission  
Bahadur Shah Zafar Marg  
New Delhi - 110002

Sub: Release of Grant-in-aid to Thiagarajar College of Engineering, Thiruparankundram, Madurai-625 015, Tamil Nadu for the year 2014-15 under plan in respect of Major Research Project entitled "Critical.....approach" awarded to Dr. D. Jeya Mala, Dept. of Computer Science tenure of project from 1.07.2011 to 31.12.2014.

Sr,

I am directed to convey the sanction of the University Grants Commission for payment of grant of Rs. 3,60,320/- (Rupees Three lakh sixty thousand three hundred twenty only) as Second instalment for the year 2014-15 towards Major Research Project to The Principal, Thiagarajar College of Engineering, Thiruparankundram, Madurai-625 015, Tamil Nadu for the plan expenditure to be incurred during 2014-15

Name of the Item	Amount Allocated	Head of Account	Grant now Being Sanctioned	Grant already Released	Total Grant
Book & Journal	58,000/-	3(A)2202.03.102.10.01.35	.....	58,000/-	58,000/-
Equipment	2,56,000/-	3(A)2202.03.102.10.01.31	.....	2,56,000/-	2,56,000/-
Project Fellow	4,84,800/-		2,92,320/-	1,44,000/-	4,36,320/-
Chemical	.....		.....	.....	.....
Contingency	1,20,000/-		40,000/-	60,000/-	1,00,000/-
Travel/field work	50,000/-		20,000/-	25,000/-	45,000/-
Overhead Charges	40,800/-		.....	40,800/-	40,800/-
<b>Total</b>	<b>10,09,600/-</b>		<b>3,60,320/-</b>	<b>5,93,800/-</b>	<b>9,44,120/-</b>



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**INDIA COUNCIL FOR TECHNICAL EDUCATION**  
4, Floor, 63rd Cross, 1st B.G. Cross, Phase II, Indira Nagar,  
Prestige Area, New Delhi-110002

Kel. No. 6023/RID/RPS/992011-12 December 20, 2011

The Drawing and Disbursing Officer  
All India Council for Technical Education  
7<sup>th</sup> Floor, Chandrasekhar Building,  
Connaught Place, New Delhi - 110001

**Sub:** Release of Grants under Research Promotion Scheme (RPS) Scheme during the financial year 2011-12.

Sir,

This is to convey the sanction of the Council for payment of Rs. 500000/- (Rupees Five Lakh Only) during 2011-12 under the Research Promotion Scheme (RPS) as Grant-in-aid for meeting the expenditure for implementing the Scheme as per details given below:

1.	Name of the Beneficiary Institution (University / College / Institution)	Thiagarajar college of Engineering Thirupparankudram Madurai-625015 Tamilnadu
2.	Principal Investigator's Name & Deptt.	Dr. S. Jeya Bharathi Mathematics
3.	Grant-in-aid Sanctioned	Rs. 500000/-
4.	Amount to be released	Rs. 500000/-
5.	Approved Duration	2 Years (Two Years)
6.	Title of the Project	Parameter Estimation for Parallel Communication Context Free Graph Grammar

- The sanctioned grant-in-aid is debitable to the major "Head RPS/Plan grant" and is valid for payment during the financial year 2011-12.
- The grant-in-aid of the grant shall be drawn by the Drawing and Disbursing Officer (DDO) All India Council for Technical Education, New Delhi on the Grants in aid bill and shall be disbursed to and credited to the account of Principal, Thiagarajar college of Engineering, Thirupparankudram Madurai-625015, Tamilnadu through RTGS.
- The date of release of the grant by AICTE shall be taken as the date of commencement of the project. The Principal/Director/Registrar shall intimate about the receipt of the grant to AICTE. Any Expenditure incurred prior the issuance of the approval letter is not allowed to be adjusted in the grant and if the University/Institution do not take the project work within 6 months of the receipt of the grant, approval shall ipso facto cease.

Contd. ..2/



**THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI-15**  
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No. SH/FTP/ETA-120/2010  
Science and Engineering Research Board  
(SERB)

Technology Bhawan  
New Mehrauli Road  
New Delhi - 110016  
15.05.2012

**ORDER**

**Subject:** Financial assistance for research project under FAST TRACK SCHEME FOR YOUNG SCIENTIST entitled "Design and Development of Capacitive RF MEMS Shunt Switch as high speed digital interconnects for Space applications" by Dr.(Mrs.) S. Kanthamani, Senior Lecturer, Department of Electronics and Communication Engineering, Thiagarajar College of Engineering, Madurai-625015, Tamil Nadu - Release of 1<sup>st</sup> installment.

Sanction of the SERB is hereby accorded to the above mentioned project at a total cost of Rs. 23,20,000/- (Rupees twenty three lakhs twenty thousand only) with the break-up of Rs. 18,50,000/- under Capital head and Rs. 4,70,000/- under General head for a duration of 3 years. The items of expenditure for which the total allocation of Rs. 23,20,000/- has been approved for 3 years are given as below :-

Sl No	Head	(Amount in Rs) Total
A	Non-recurring (Capital Items)	18,50,000/-
I	Pmt Equipment: Hand held spectrum analyser, probe GS 100 angle connectors, mobile workstation-HP, RF MEMS Switch fabrication (including necessary components with fabrication charges as per IIS: Nanofab.)	18,50,000/-
A'	Total (Capital)	
B	Recurring (General Items)	60,000/-
I	Consumables	50,000/-
II	Contingency	60,000/-
III	Travel (attending DST meetings)	3,00,000/-
IV	Over Heads	4,70,000/-
B'	Total (General)	23,20,000/-
C	Grand Total (A' B')	

- Overhead expenses are meant for the host Institute towards the cost for providing infrastructural facilities and benefits to the staff employed in the project, etc.
- Sanction of the SERB is also accorded to the payment of Rs. 20,20,000/- (Rupees twenty lakhs twenty thousand only) with the break-up of Rs. 18,50,000/- (Rupees eighteen lakhs fifty thousand only) under head 'Grants for creation of capital assets' (46.01.35) and Rs. 1,70,000/- (Rupees one lakh seventy thousand only) under head 'Grants-in-aid General (46.01.31)' to the Principal, Thiagarajar College of Engineering, Madurai-625015, Tamil Nadu being the first instalment of grant for the year 2012-13 for implementation of the above said project.
- Sanction of the grant is subject to the conditions as detailed in Annexure-I.
- The amount of Rs. 23,20,000/- (Rupees twenty lakhs twenty thousand only) will be drawn by the Drawing and Disbursing Officer, SERB and will be disbursed to the Principal, Thiagarajar College of Engineering, Madurai-625015, Tamil Nadu by means of an A/C payee cheque.
- The Institute will furnish to the SERB Utilization Certificate (U/C) and audited Statement of Expenditure pertaining to the grant immediately after the end of each financial year.
- All purchases of equipments etc. would be as per GFR and the disposal of the same would be done with prior approval of SERB.



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**ADA NATIONAL PROGRAMME ON MICRO AND SMART SYSTEMS NPMASS**

Dr K Vijayaraju  
Project Director(NP-MASS)

ADA - NP-MASS: ProjSanc:1.11  
29<sup>th</sup> April 2010

**PROJECT SANCTION LETTER**

Reference is made to the project proposal submitted by Thiagarajar college of Engineering, Madurai. The sanction of the Board for Smart Materials Research and Technology is conveyed as below.

- (a) Title of the Project Varactor based RFMEMS Phase Shifter for Ku Band Applications
- (b) Project Institution and address Department of ECE  
Thiagarajar College of Engineering  
Madurai, Tamilnadu - 625 015
- (c) Principal Investigator Dr (Mrs) S. Raju  
Dept. of ECE
- (d) Other participating Organizations SCL - Chandigarh
- (e) Sanctioned Cost Rs. 134.30 Lakhs
- (f) Duration of the project 2 years
- (g) Deliverables
- RF Varactor for Phase shifter at Ku band
  - Technical reports giving the details on design, fabrication and testing.
- (h) Controlling PARC PARC #1
- (i) Project Ref No. Project # 1:11
- (j) Budget Head- wise split up of the NPMASS grant

(Rs. in lakhs)

Budget Head	1 <sup>st</sup> Year	2 <sup>nd</sup> Year	Total
Manpower	2.25	2.25	4.50
Equipment / Facilities	30.00	0.00	30.00
Consumables	1.50	1.50	3.00
Fabrication cost (to be paid to SCL Chandigarh)	43.00	43.00	86.00
Contingencies	0.75	0.75	1.50
TA/DA	1.50	1.50	3.00
Overheads	5.00	1.30	6.30
	<b>84.00</b>	<b>51.30</b>	<b>134.30</b>



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NIRF - Jan 2014 - Dec 2017  
m-Learning  
Financial year APR - Mar

**PROFORMA FOR SUBMITTING SIX-MONTHLY FINANCIAL & TECHNICAL PROGRESS REPORT**

**1. General**

- A. Name of the Project : Content Generation, Adaptation and Distribution in M-Learning Environment using Mobile Phone Applications
- A.1 Our Reference Letter No. : 11(13)/2010 – IG Dt: 07.03.2011
- A.2 Executing Agency : Thiagarajar College of Engineering, Madurai
- A.3 Chief Investigator with Designation : Dr.(Mrs)S. Raju, (Prof & Head, ECE)  
Dr.S. Mercy Shalinie, (Asso.Prof & Head, CSE)
- A.4 Total Cost of the Project as approved by DIT : Rs. 99,29,000.00  
i) Original  
ii) Revised if any
- A.5 Date of starting (date of first sanction) : 07.03.2011
- A.6 Date of completion : 06.09.2013  
i) Original Expected date of completion : Mar 2012  
No. 11(13)/2010-ELG (Vol.II) Jun 2012  
No. 11(13)/2010-ELG (Vol.II):Dec 2012  
No. 11(13)/2010-ELG (Vol.II):Mar 2013  
:Sep 2013  
ii) Revised, if any
- A.7 Date on which last progress report was submitted : 02.08.2013

**R. Financial**

- a) Funds released by DIT upto Mar 2012 : Rs. 34,76,000.00
- b) Funds released by DIT last financial year : Rs. 37,78,945.00
- c) Funds released during the current financial year : Rs. 21,01,987.00



**THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI-15**  
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Thiagarajar College of Engineering, Madurai  
Department of Civil Engineering

Submitted to the Chairman and Correspondent 05-05-2015 / 1478

Respected Sir,

SUB: IAMWARM Project - Overhead charges to college and Honorarium for staff involved - Approval requested - regarding-

Department of Civil Engineering has undertaken projects sanctioned by Public Works Department, Madurai under IAMWARM scheme. The total cost of the completed IAMWARM project for nine sub-basins are Rs.49,97,300/=(Rupees forty nine lakhs ninety seven thousand and three hundred only). As per the existing norms of the college, it is proposed to transfer 15% of the project cost as Overhead charges to the college and 5% as honorarium to the staff members involved in the projects. The Overhead project cost of 15% works out to Rs.7,49,600/= and honorarium of 5% works out to Rs.2,49,900/=-.

Hence, we kindly request you to grant approval to transfer 15% of project cost of Rs.7,49,600/- from IAMWARM project to college account and 5% of project cost of Rs.2,49,900/- as honorarium for the staff members.

Thanking you,

Yours faithfully,  
V. Srinivasan  
PRINCIPAL

yes  
[Signature]  
2/5

6  
[Signature]





**THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI-15**  
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Email: erip\_er@drdo.drdo.in  
Tele: 011-23007348, 23017661  
Telefax: 011-23017582



No. ERIP/ER/0904508/M/01/51  
Govt of India, Min of Defence  
Defence Res & Dev Organ (CRDO)  
Directorate of Extramural Research &  
Intellectual Property Rights (ER&IPR)  
'B' Wing, DRDO Bhawan, DHQ PO  
Rajaji Marg, New Delhi - 110105

Dated: 12<sup>th</sup> Oct 2010

To  
✓ Dr. (Mrs.) B. Marimegalai  
Assistant Professor  
Dept. of ECE  
Thiagarajar College of Engg.  
Madurai - 625 015

Subj: Grants-in-Aid for research project titled "Development of Miniaturized Fractal Antenna for Multiband Wireless Applications"

A grant of Rs 11.00 Lakh (Rupees Eleven Lakh only) has been approved by DRDO to Thiagarajar College of Engg., Madurai for pursuing the research on the subject titled project by Dr. (Mrs.) B. Marimegalai, Assistant Professor, Dept. of ECE, Thiagarajar College of Engg., Madurai - 625 015 as Principal Investigator

The grant shall be spent as follows:

Expenditure on ↓ (Rs in lakh) during →	Year 1	5 months	Line Total
a) Staff SRF 01 @Rs. 14,000/- pm. + 10% HRA	1.848	0.924	2.772
b) Equipment (including spares thereon)	6.35	-	6.35
c) Operation and maintenance	-	-	-
d) Expendables	-	-	-
e) Travel (Domestic)	0.35	-	0.35
f) Contingencies	0.30	-	0.30
g) Visiting faculty or Research	-	-	-
h) Procured services (other than (g)) and metered utilities	-	-	-
i) Institutional Overheads Charges	1.62	.146	1.228
Column Totals	9.93	1.07	11.00

(Grand total : Rs 11.00 Lakh (Rupees Eleven Lakh Thousand only))

The project will last for One and Half Years from the date of receipt of the first cheque by the grantee institute.

- The grantee institution may use savings in expenditure on any head (a) to (f) above to augment another upto 10% from one component to another with a provision that increase against any component does not exceed 10% of its original cost. Prior approval of DRDO shall be required to augment by more than ten per cent. Any excess payment without the prior approval of DRDO will be borne by the grantee institute.
- DRDO reserve the right to terminate the grant at any stage, if convinced that the grant has not been properly utilized or appropriate progress has not been made/achieved.
- The PI will submit closure reports (02 copies) to DRDO within 60 days of completion/closure/termination of Project. The report must be attached with all necessary certificates and financial information.
- In case of an PI leaving the institution or going abroad etc, the Executive authority of the grantee institute to whom the Project has been sanctioned will ensure that the PI submits detailed technical and financial report of the work done before his/her relieve.
- The grantee institution may publicise this grant only with the prior approval of DRDO.



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**ISPG- 2016-17**

S.no	Project ID	Title	Team lead	College Name	Amount Sanctioned (Rs)
1	ISPG-MUM-77	Ground coupled heat exchanger air conditioning system	Dheeraj Dilip Kulkarni	Saraswathi college of Engineering	70,000
2	ISPG-CCU-18	Experimental Investigation on Waste Heat Recovery System with Multiple Evaporator and Condenser	Arbab Gandhi	Asansol Engineering College	51,000
3	ISPG-MDU-45	Study on utilization of vapour compression refrigeration system waste heat for desalination humidification and dehumidification	M. Arulmani	Thiagarajar College of Engineering	49,500
4	ISPG-HYB-35	Mobile AC using R134a for spot cooling	G Charis Sridha	Sreyas Institute of engineering & technology	36,000
5	ISPG-PUN-56	Development of Energy Efficient Evaporative Cooler	Rushikesh Jaysing Desai	College of Engineering, Pune	50,000
6	ISPG-PUN-51	Design and Fabrication of Smart chimney for smart city	Mayur G Kulkarni	Priyadarshini Institute of Engineering and Technology	50,000
7	ISPG-THA-69	Refrigeration by pedal driven electricity generator	Mr Bharat Mandel	Don Bosco Institute of Technology	45,000
8	ISPG-CCU-10	Sun Terranean air conditioning for post harvest underground cold storage	Rohan Lal Kshetry	Institute of Engineering & Management	40,000
9	ISPG-KOI-41	Thermal Performance Analysis of Air Conditioner By Addition of Nanoparticle in Refrigerant	Mulla Soheb Zakirhusen	Sanjay Ghodawat Group of Institution	42,000
10	ISPG-CH-24	Performance analysis of alternate refrigerants in bottle cooler test rig	Syed Saif Ali Rizvi	Hindustan institute of technology and science, Hindustan University	50,000
11	ISPG-PUN-55	Heat Transfer Enhancement OF Phase Change Material Using Fin	Parneshwar Digambarrao Chaudankar	Jayawantrao Sawant College of Engineering	22,000
12	ISPG-BAN-81	Advanced sequential dual evaporator domestic refrigerator	Dishanth S V	Sai Vidhya Institute of Technology	34,000
13	ISPG-MUM-74	Design and experimental performance of domestic refrigerator using nano fluid	Deepak Bordre	Lokmanya Tilak College of Engineering	49,000
				<b>Total</b>	<b>588500</b>

*Maigothi*  
Prof M P Maia

*R. Saravanan*  
Prof R Saravanan

*Shri Atul Chonthai*  
Shri Atul Chonthai

*Shri N Kumaresan*  
Shri N Kumaresan



**THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI-15**  
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दूरदर्शन / Phone : 044 26364031  
 पास / फॅक्स : 044 - 26383661  
 पत्र/विमान : यंत्रिकीय विकास / VehicleDev

एक पत्र ही निदेश के पत्र से ही जो पत्रों को भेजना  
 और उन्हें एक अधिकारी के नाम से नहीं।

All Correspondence should be  
 addressed to DIRECTOR and not  
 to any Officer by Name



भारत सरकार, रक्षा संशोधन  
 अनुसंधान तथा विकास संगठन  
 संग्राम कक्षा अनुसंधान तथा विकास स्थापन  
 अणवडी, चेन्नई - 600 054

Govt. of India, Min of Defence  
 Research & Dev. Orgn.  
 Combat Vehicles Res. & Dev. Estt.  
 Avadi, Chennai - 600 054

दिनांक / Date : 11 Feb 2013

पत्र संख्या / Letter No. CVRDE/13CA0007/ TRD/12-13/ LP

THE PRINCIPAL,  
 THIAGARAJAR COLLEGE OF ENGINEERING,  
 MADURAI - 625 015.

Sir, Kind Attn: Dr. S. BALAJI, Dept. of Chemistry / Dr. M. PALANINATHARAJA,  
 Dept. of Mechanical Engineering

Sub: DEVELOPMENT OF ELECTROCHEMICAL MACHINING (ECM)  
 PROCESS FOR TITANIUM ALLOY (Ti6Al4V)

Ref. a) Your Summary offer No. IDE/Chem/ CVRDE/11-12/01 dt. 24.01.12  
 b) Offer Evaluation Committee Meeting held at CVRDE, Avadi on 10.05.12.

With reference to the above, it is intimated that your proposal for "DEVELOPMENT OF ELECTROCHEMICAL MACHINING (ECM) PROCESS FOR TITANIUM ALLOY (Ti6Al4V) DIAPHRAGMS" has been accepted by the President of India in accordance with the CARs Annexure 2 for the value of Rs. 19,48,654/- (Rupees Nineteen Lakhs Forty Eight Thousand Six Hundred and Fifty Four Only) as per the enclosed contract NO. CVRDE/13CA0007/ TRD/12-13A/P, Dt. 22.01.2013.

Please acknowledge receipt of this contract. In future, please quote this contract number and date for all your future correspondence for our reference. Kindly forward your invoice for arranging advance payment as per contract.

Thanking you.

Yours faithfully,

Tru's as above

(M IQBAL AHMED)  
 ACCOUNTS OFFICER  
 For DIRECTOR

Copy to :-

1. HEAD (TRD)
2. ACDA (R&D)
3. O/C BILLS
4. O/C R&I
5. BUDGET - Cost debitable to Budget LP - General Revenue,  
 Unit Code 0000016 - REV Major Head 2660, Minor Head - 110  
 Head Code - 856/01



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Annex - XVI

TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME (TEQIP) PHASE - II  
THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI  
TRIAL BALANCE  
AS ON 31.03.2014

S. No.	Lr. No.	HEAD OF ACCOUNT		DEBIT RS.	CREDIT RS.
		Account Code *	Description		
1			Grant from SPTU / MITPD & State Govt.		5,00,00,000
3			Procurement of Goods	3,34,45,018	
4			Teaching and Research Assistantship	41,87,806	
5			Research and Development	3,97,444	
6			Faculty and Staff Developments	49,23,548	
7			Industry/Institute Interaction	10,14,116	
8			Institutional Management Capacity Enhancement	1,63,849	
9			Institutional Reforms	1,72,902	
10			Academic support for weak students	3,67,822	
11			Incremental Operating Cost	34,00,000	
12			Bank Interest		2,87,915
13			Bank charges	61,888	
15			Advances - Others	8,10,188	
20			Balance with Bank	48,55,001	
20			Tender Document Fee		13,978
20			Cash on Hand	12,806	
TOTAL				5,03,71,893	5,03,71,893

For A. R. Krishnan & Associates  
Chartered Accountants  
Partner  
A. Senthil Kumar, M.No. 214611



**THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI-15**  
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Annex - XVIII

**TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME (TEQIP-Phase II)**  
**THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI - 625 015**  
**TRIAL BALANCE AS ON 31.03.2015**

S. NO.	L.F. NO.	HEAD OF ACCOUNT	DEBIT	CREDIT
		Description	Rs.	Rs.
1		Grant From SPFIJ		4,50,00,000
2		Security Deposits		3,66,343
3		General Fund Account		51,40,837
4		Procurement	2,04,45,868	
5		Teaching & Research Assistantship	51,00,000	
6		Research & Development	5,28,212	
7		Faculty & Staff Development	37,10,739	
8		Industrial Institution Interaction	15,65,110	
9		Institutional Management Capacity Enhancement	12,527	
10		Institutional Reforms	33,33,992	
11		Academic Support for Weak Students	3,34,654	
12		Incremental Operating Cost	8,84,059	
13		Transferred to TEQIP Corpus fund account	-	
14		Bank Charges	2,399	
15		Bank Interest	-	4,17,442
16		Other Advances	7,36,489	
17		Other Income	-	
18		Bank Balance- State Bank of India	1,42,78,573	
		<b>TOTAL</b>	<b>5,09,32,622</b>	<b>5,09,32,622</b>

For A.R.krishnan and Associates  
Chartered Accountants



*B. Anandaramkrishnan*  
**B. Anandaramkrishnan**  
Partner, M.No: 209122



*V. Abhaikumar*  
**Dr. V. ABHAIKUMAR**  
PRINCIPAL  
Thiagarajar College of Engineering  
MADURAI - 625 015



**THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI-15**  
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Annex - XVIII  
**TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME (TEQIP-Phase II)**  
**THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI - 625 015**  
**TRIAL BALANCE AS ON 31.03.2016**

SR. NO.	L.F. NO.	HEAD OF ACCOUNT Description	DEBIT Rs.	CREDIT Rs.
1	"	Grant From SPFU		3,00,00,000
2		Security Deposits		
3		General Fund Account		1,46,48,719
4		Procurement	7,99,195	
5		Teaching & Research Assistantship	49,01,600	
6		Research & Development	2,43,214	
7		Faculty & Staff Development	33,27,454	
8		Industrial Institution Interaction	6,41,209	
9		Institutional Management Capacity Enhancement	13,19,517	
10		Institutional Reforms	29,29,431	
11		Academic Support for Weak Students	4,90,521	
12		Incremental Operating Cost	7,75,329	
13		TDS Payable		5,420
14		Bank Charges	1,846	
15		Bank Interest		6,43,018
16		Other Advances	4,12,620	
17		EMD and security deposit		2,32,034
18		Bank Balance- State Bank of India	2,98,47,255	
		<b>TOTAL</b>	<b>4,55,89,191</b>	<b>4,55,89,191</b>

Director of Technical Education SPFU Head

For A.R.krishnan and Associates  
Chartered Accountants

Director of Technical Education SPFU Head  
D.O.T.E Chennai -25



A.Senthil Kumar  
Partner, M.No: 214611

  
PRINCIPAL  
Thiagarajar College of Engineering  
MADURAI - 625 015





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Annex - XVIII

**TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME (TEQIP-Phase II)**  
**THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI - 625 015**  
**TRIAL BALANCE AS ON 31.03.2017**

SR. NO.	L.F. NO.	HEAD OF ACCOUNT Description	DEBIT Rs.	CREDIT Rs.
1		Grant From SPFU		
2		Security Deposits		2,50,00,000
3		General Fund Account		-
4		Procurement		2,99,62,421
5		Teaching & Research Assistantship	2,93,96,803	
6		Research & Development	91,37,250	
7		Faculty & Staff Development	13,86,543	
8		Industrial Institution Interaction	65,71,122	
9		Institutional Management Capacity Enhancement	51,63,460	
10		Institutional Reforms	98,638	
11		Academic Support for Weak Students	14,24,583	
12		Incremental Operating Cost	5,58,600	
13		TDS Payable	18,70,157	
14		Bank Charges		
15		Bank Interest	2,777	
16		Other Advances & Receivables		8,26,882
17		Misc. Receipts	61,244	
18		EMD and security deposit		5,554
19		Cash in Hand		9,692
19		Bank Balance- State Bank of India	11,251	
		<b>TOTAL</b>	<b>5,58,04,549</b>	<b>5,58,04,549</b>



For A.R.krishnan and Associates  
Chartered Accountants

B. Anandaramkrishnan  
Partner, M.No:209122

Head of the Institution

*V. Anandaramkrishnan*  
Principal

THIAGARAJAR COLLEGE OF ENGINEERING  
MADURAI - 625 015.





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THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI					
TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME [TEQIP] - PHASE III					
TRIAL BALANCE AS ON 31.03.2018					
S.No.	L.F. No.	Account Code	Description	DEBIT	CREDIT
				Rs.	Ra.
<b>Procurement of Goods</b>					
1		1.3.1.1	Equipments	1,03,79,174	
2		1.3.1.2	Learning Resources	22,36,275	
3		1.3.1.3	Furniture	-	
4		1.3.1.4	Minor Civil Works	-	
<b>Academic Processes</b>					
5		1.3.2.1	Improvement Student Learning	70,236	
6		1.3.2.2	Research Assistantships	6,36,000	
7		1.3.2.3	Graduates employability	-	
8		1.3.2.4	Faculty/Staff development	14,51,126	
9		1.3.2.5	Research and Development	1,15,683	
10		1.3.2.6	MOOCs and digital learning	1,000	
11		1.3.2.7	Mentoring/Twinning System	3,24,551	
12		1.3.2.8	Reforms, Governance	11,78,605	
13		1.3.2.9	Management Capacity Development	09,955	
14		1.3.2.10	Hiring Consultancy Services	-	
15		1.3.2.11	Industry Institute Interaction	2,84,885	
<b>Operating Cost</b>					
16		1.3.3.1	Consumables	-	
17		1.3.3.2	Operation and Maintenance of Equipments	1,003	
18		1.3.3.3	Office Expenses	77,718	
19		1.3.3.4	Meetings	96,003	
20		1.3.3.5	Hiring of Vehicles	-	
21		1.3.3.6	Travel cost	1,87,039	
22		1.3.3.7	Salary	1,02,419	
23			Advances Paid	-	
24			Grant Received from NPIU		1,72,31,672
<b>TOTAL</b>				<b>1,72,31,672</b>	<b>1,72,31,672</b>



For N.Raja and Associates  
Chartered Accountants

*G. Velavan*  
Partner

M.No: 029915





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	0					h		
11	ISPG_UG_09	Performance study of integrated vapor compression refrigeration and bubble column humidifier operated with bio mass	49000	Chandra	Yes	South	Madurai Chapter	THIAGARAJAR COLLEGE OF ENGINEERING
12	ISPG_UG_132	Design & Fabrication Of Silicon Disc Dehumidifier	45000	RVSS	Yes	West	Mumbai Chapter	Lokmanya Tilak College Of Engineering
13	ISPG_UG_50	Design and fabrication of Smart Air Cooler system using Thermoelectric cooling with integrated PCM [Phase Change Material].	45000	Chandra	Yes	West	Nagpur Chapter	Priyadarshini Institute of Engineering and Technology,
14	ISPG_UG_16	Solar direct refrigeration system design	50000	Manoj	Yes	West	Pune Chapter	College of Engineering
15	ISPG_UG_18	Biogas Reformation for Syngas using Catalysis.	50000	Dr.Bhr amara	Yes	West	Thane Chapter	Don Bosco Institute of Technology
16	ISPG_UG_12	Design and Development of Thermoacoustic Refrigerator	49000	Dr.Bhr amara	Yes	West	Vadodara Chapter	A.D Patel Institute of Technology
17	ISPG_UG_27	Fabrication of Solar Powered Chill- Brella	50000	Manoj	Yes	South	Vijayawada Sub Chapter	PVP Siddhartha Institute of Technology