

## Request for sanctioning the funding amount for Phase 2 of Project Work (Year 2017-2018) in SJEC, Mangalore.

2 messages

Noel Shiri &lt;noelshiri.sjec@gmail.com&gt;

Mon, May 28, 2018 at 7:34 PM

To: Myriam Shankar &lt;myriam.taict@gmail.com&gt;, myriam shankar &lt;myriam.shankar67@gmail.com&gt;, Wolfram Thurm &lt;wolframthurm@gmail.com&gt;, Arushi Gupta &lt;arushi.taict@gmail.com&gt;, VANITHA S &lt;vanitha.taict@gmail.com&gt;

Hello Madam,

I am requesting you to please authorize the funding for performing the different waste water related tests and leaching tests under the Phase 2 of Project Work being undertaken in SJEC, Mangalore for the year 2017-2018. The Approximate cost incurred for all the testing and future tests if any is given in the table below:-

SI No	Description of Tests	Approx Total Cost (Rs)
1	Testing Waste water from Shredder	12,390/- (Bill copy sent by email)
2	Testing Waste water from Extruder Cooling Tank	
3	LEACHING TEST - Sample 1 - WP	5000
4	LEACHING TEST - Sample 2 - WP + R.P	5000
5	LEACHING TEST - Sample 3 - WP + R.P + FA	5000
6	LEACHING TEST - Sample 4 - Plywood	5000
7	Glass tank for Leaching tests	1000
8	Testing Waste water from Shredder after treating with Nano Solution - TESTING IF REQUIRED IN FUTURE	5000
9	Miscellaneous costs - 2 no's of Report Printing, Water Absorption Test for Lumber and any other new tests if required in future.	5000
<b>TOTAL COSTS</b>		<b>Rs. 43,390/-</b>

I request you to please send the funding amount of **Rs.43,390/-** to the SJEC official bank account. The bill copy for testing the shredder and extruder waste water is attached with this email for your reference.

The details of the Bank account is given below:-

**Name of Account** : St. Joseph Engineering College

**Bank Account Number** : 10792191000057

**Type of Bank Account** : Saving Bank Account

**Bank** : Oriental Bank of Commerce

**Branch** : Mangalore - 575 028

*Sudhakar*  
27-02-2020  
PROFESSOR & HEAD  
OF MECHANICAL ENGINEERING  
COLLEGE




MICR Code : 575022001  
Swift Code : ORBCINBBIBD  
Branch Code No. : 0966

I thank you for the benevolent support you have been giving us in doing this project work on Waste Plastic upcycling from the year 2016.

Best Regards

Noel Deepak Shiri  
Project Guide  
Assistant Professor  
Dept of Mechanical Engineering  
SJEC, Mangalore.

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 Shredder Waste water and Extruder Cooling water testing charges-Joseph524.pdf  
1342K

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Myriam Shankar <myriam.taict@gmail.com>

Mon, May 28, 2018 at 8:38 PM

To: Noel Shiri <noelshiri.sjec@gmail.com>

Cc: myriam shankar <myriam.shankar67@gmail.com>, Wolfram Thurm <wolframthurm@gmail.com>, Arushi Gupta <arushi.taict@gmail.com>, VANITHA S <vanitha.taict@gmail.com>

Perfect,

Vanitha please take this mail as fund request and make the transfer tomorrow, before I leave to Delhi this needs to be out of the door.

Best  
M

[Quoted text hidden]

<Shredder Waste water and Extruder Cooling water testing charges-Joseph524.pdf>

*Sudha* / 27.2.2020  
PROFESSOR & HEAD  
DEPARTMENT OF MECHANICAL ENGINEERING  
ST. JOSEPH ENGINEERING COLLEGE  
VANANJOUR, MANGALORE - 575 020





# ST JOSEPH ENGINEERING COLLEGE

(Affiliated to VTU, Belagavi and recognised by the AICTE, New Delhi.  
B.E. - CSE, ECE, EEE, ME Accredited by NBA, New Delhi)

ಸಂತ ಜೋಸೆಫ್ ತಾಂತ್ರಿಕ ಮಹಾವಿದ್ಯಾಲಯ

Ref. No.SJEC/Prin/B/2019/40

Date: 14 May 2019

To  
Dr.Satish Annigeri  
Registrar (I/C)  
Visvesvaraya Technological University  
"Jnana Sangama" Belagavi - 590 018

Dear Sir

**Sub: Regarding Financial Assistance for Innovative Projects of Final Year Undergraduate Students for the year 2018-19**

Ref: VTU/BGM/Area-OS/Gen-Cir/2018-19/10716 VTU dated 02 March 2019

With reference to the above we are submitting the detailed Project report of all the selected projects from all branches at Undergraduate level offered by the College. The projects were selected by Departmental Committees constituted as per norms specified.

SL No.	Branch	Title of the Project	Names of the student	Name of Guide
1	Electrical & Electronics Engineering	AniMo- Animal Vitals Monitoring System	1. Bhavyashree 2. Evon Treza Sequeira 3. Shreyas K: 4. Sujan	Mr Sathisha K
2	Electrical & Electronics Engineering	Aqua Drone-RC Floating Waste Collector & Water -Air Quality Monitoring System	1.Arrol Devin Pereira 2. Manjunath 3. Prashant 4. Shivaprasad S. Katti	Mr Sanath Saralaya
3	Civil Engineering	Water Filtration bed and ceramic microfiltration membrane from mineral coal fly ash	1. Ms Mahima S Rao 2.Mr Melroy Royston Dsouza 3. Mr Mahesha S M 4.Ms Vaishnavi T Rajeev	Dr Nalini Rebello



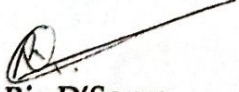


## ST JOSEPH ENGINEERING COLLEGE

Continuation Sheet

4	Civil Engineering	Proposal for increasing the efficiency of the existing sequential batch reactor of St Joseph Engineering College	1. Mr Dheeraj 2. Ms Mohita M Manjrekhar 3. Mr Musthakeem Mohammed 4. Mr Kiran Kumar Raikar	Mr Ajeeth B
5	Mechanical Engineering	Design and fabrication of compact cereal puffing machine	1. Joshua Nihal Cutinha 2. Galvin Gian Fernandes 3. Anand Krishnan 4. Aravind C	Mr Neil Vaz
6	Mechanical Engineering	Recycling and conversion of waste pet bottle into acrylic paint	1. Rajath R 2. Prajwal 3. Pavan Kumar 4. Manish S Shetty	Mr. Vinoothan Kaliveer
7	Computer Science Engineering	Self-Driving Car for the Handicapped	1. Akarsh Dmello 2. Errol Vismith Dmello 3. Yuktha Raman G V	Mr Shreenath Acharya
8	Computer Science Engineering	Automated Public Distribution System	1. Anvitha K S 2. Albert Taitas 3. Apeksha 4. Daryl Clare Saldhana	Ms Eden Sequeira
9	Electronics & Communication Engineering	Design and self stabilization of unmanned aerial vehicle using PID controller	1. Nishanth 2. Dhanush Kumar M R 3. K Adithya Rao 4. Hafeel Hasan	Ms. Jayalakshmi K P
10	Electronics & Communication Engineering	EMG based prosthetic leg	1. Abdul Rahoof 2. Aditya.R.Baliga 3. Amina Naba 4. Daryll Ralph D'Costa	Ms Preetha D'Souza

This is for your kind information and further needful.

  
Dr Rio D'Souza  
Principal



Enclosed: Project reports



## Interdepartmental Communication

Ref No : SJEC/ECE/2019/49

27/07/19

**Sub: Regarding Disbursal of amount of Rs 50,000 sanctioned by VTU for Innovative Projects of Final Year Undergraduate Students for the year 2018-19**

**Ref: Sanction of Financial Assistance for 2018-19 to the selected projects of UG Students. VTU Letter Ref: VTU/Aca./A-4/2019-20/2465/104 dated 11 July 2019**

With reference to the above subject, Rs 50,000 was sanctioned by VTU for Innovative Projects of Final Year under Graduate Students for the year 2018-19.

Each project group is allotted a sum of Rs.5,000/- for the Innovative project. The amount is distributed equally to all the team members, as shown below:

S. No.	Branch	Title of the Project	Name of Guide	Names of the student	Amount to be paid (Rs)
1	Electrical & Electronics Engineering	AniMo- Animal Vitals Monitoring System	Mr Sathisha K	1. Bhavyashree	Rs. 1250
				2. Evon Treza Sequeira	Rs. 1250
				3. Shreyas K.	Rs. 1250
				4. Sujan	Rs. 1250
2	Electrical & Electronics Engineering	Aqua Drone-RC Floating Waste Collector & Air quality Monitoring system	Mr Sanath Saralaya	1. Arrol Devin Pereira	Rs. 1250
				2. Manjunath	Rs. 1250
				3. Prashant	Rs. 1250
				4. Shivaprasad S. Katti	Rs. 1250
3	Civil Engineering	Water Filtration bed and ceramic microfiltration membrane from mineral coal fly ash	Dr Nalini Rebello	1. Mahima S Rao	Rs. 1250
				2. Melroy Royston Dsouza	Rs. 1250
				3. Mahesha S M	Rs. 1250
				4. Vaishnavi T Rajeev	Rs. 1250



4	Civil Engineering	Proposal for increasing the efficiency of the existing sequential batch reactor of St Joseph Engineering College	Mr Ajeeth B	1. Dheeraj	Rs. 1250
				2. Mohita M Manjrekhar	Rs. 1250
				3. Musthakeem Mohammed	Rs. 1250
				4. Kiran Kumar Raikar	Rs. 1250
5	Mechanical Engineering	Design and fabrication of compact cereal puffing machine	Mr Neil Vaz	1. Joshua Nihal Cutinha	Rs. 1250
				2. Galvin Gian Fernandes	Rs. 1250
				3. Anand Krishnan	Rs. 1250
				4. Aravind C	Rs. 1250
6	Mechanical Engineering	Recycling and conversion of waste pet bottle into acrylic paint	Mr. Vinoothan Kaliveer	1. Rajath R	Rs. 1250
				2. Prajwal	Rs. 1250
				3. Pavan Kumar	Rs. 1250
				4. Manish S Shetty	Rs. 1250
7	Computer Science Engineering	Self-Driving Car for the Handicapped	Mr Shreenath Acharya	1. Akarsh Dmello	Rs. 1666
				2. Errol Vismith Dmello	Rs. 1666
				3. Yuktha Raman G V	Rs. 1666
8	Computer Science Engineering	Automated Public Distribution System	Ms Eden Sequeira	1. Anvitha K S	Rs. 1250
				2. Albert Taitas	Rs. 1250
				3. Apeksha	Rs. 1250
				4. Daryl Clare Saldhana	Rs. 1250
9	Electronics & Communications Engineering	Design and self stabilization of unmanned aerial vehicle using PID controller	Ms Jayalakshmi K P	1. Nishanth	Rs. 1250
				2. Dhanush Kumar M R	Rs. 1250
				3. K Adithya Rao	Rs. 1250
				4. Hafeel Hasan	Rs. 1250



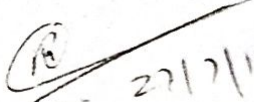
10	Electronics & Communications Engineering	EMG based prosthetic leg	Ms Preetha D'Souza	1. Abdul Rahoof	Rs. 1250
				2. Aditya.R.Baliga	Rs. 1250
				3. Amina Naba	Rs. 1250
				4. Daryll Ralph D'costa	Rs. 1250

Kindly submit the bank details of the above students before 05/08/2019 as per the below format in softcopy to the email address [reshmak@sjec.ac.in](mailto:reshmak@sjec.ac.in)

Department	Student Name as per bank passbook	Bank name	Account Number	IFSC Code

Kindly furnish the correct bank details, since the amount will be transferred directly to the student's bank account.

RLS 27/7/19  
 Ms Reshma K J  
 Asst Professor  
 ECE Dept. SJEC

  
 27/7/19  
 Dr Rio D'souza  
 Principal  
 SJEC, Vamanjoor

Copy to: Director/Asst Director/Principal/All Hods with a request to inform all Guides and selected project students





# Karnataka State Council for Science and Technology

Indian Institute of Science Campus, Bengaluru - 560 012

Telephone: 080-2334 1652, 2334 8848, 2334 8849 ♦ Telefax: 080-2334 8840

Email: office@kscst.iisc.ernet.in, office@kscst.org.in ♦ Website: www.kscst.iisc.ernet.in, www.kscst.org.in

**Dr. S. G. Sreekanteswara Swamy**  
**Executive Secretary**

27th March 2017

Ref: 7.1.03/SPP/1112

The Principal  
St. Josephs Engineering College,  
Vamanjoor,  
Mangalore - 575 028

Dear Sir,

Sub : Sanction of Student Project - 40th Series: Year 2016-2017

**Your Project Proposal Reference No. : 40S\_BE\_1153**

Ref : Your Project Proposal entitled " **ARECANUT TREE CLIMBER AND PESTICIDE SPRAYER**

I am happy to inform that your project proposal referred above, has been approved by the Secretary, KSCST for "Student Project Programme - 40th Series" and has been sanctioned with a budgetary break-up as detailed below:

Student / s	Mr. Jnanasagar Kamath and others	Budget	Amount (Rs)
		Materials/Consumables	5,500.00
Guide/s	Prof. Divya K Pai	Labor	-
		Travel	-
Department	Electrical And Electronics Engineering	Miscellaneous	-
		Report	500.00
		<b>TOTAL</b>	<b>6,000.00</b>
	<b>Rupees Six Thousand</b>		

The following are the guidelines to carryout the project work :

- The project should be performed based on the objectives of the proposal sent by you.
- The project should be completed in all respects and one copy of the hardbound report along with softcopy of the full report in a CD (.pdf format) should be submitted to KSCST.
- Any change in the project title and objectives, etc., or students is liable to rejection of the project and the amount sanctioned needs to be returned to KSCST.
- Please quote your **project sanction reference number printed above** in all your future correspondences.
- Important:** After completing the project, 2 to 3 page write-up (synopsis) needs to be sent by e-mail [spp@kscst.iisc.ernet.in] and should include following :

- Title of the project
- Name of the College & Department
- Name of the students & Guide(s)
- Keywords

To A Bant N.B  
→ funding file  
→ Ms. Divya Pai  
→ To students



- 5) Introduction / background  
(with specific reference to the project, work done earlier, etc) - about 20 lines
- 6) Objectives (about 10 lines)
- 7) Methodology (about 20 lines)  
(materials, methods, details of work carried out, including drawings, diagrams etc)
- 8) Results and Conclusions  
(about 20 lines with specific reference to work carried out)
- 9) Scope for future work (about 20 lines).

**(Note: The write-up (Synopsis) should be sent with the approval of project guide. The softcopy of the write-up, in MS Word format, should be sent by e-mail (spp@kscst.iisc.ernet.in). In your e-mail, please also include project proposal reference number and title of the project.)**

e) Projects selected for Seminar / Exhibition will be awarded.

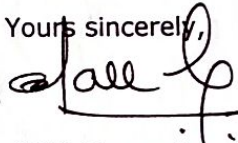
The sanctioned amount will be sent separately by our Accounts Department.

**The sponsored projects evaluation will be held in the Nodal Centre and the details of the nodal centre will be intimated shortly.**

Please visit our website for further announcements / information and for any clarifications please email to spp@kscst.iisc.ernet.in

Thanking you and with best regards,

Yours sincerely,



(SGS Swamy)

Copy to:

- 1) The Head of the Department of  
Electrical And Electronics Engineering  
St. Josephs Engineering College,  
Vamanjoor,  
Mangalore - 575 028
- 2) Prof. Divya K Pai  
Department of Electrical And Electronics Engineering  
St. Josephs Engineering College,  
Vamanjoor,  
Mangalore - 575 028
- 3) The Finance Officer, KSCST, Bangalore





Government of India  
Department of Atomic Energy (DAE)  
Board of Research in Nuclear Sciences (BRNS)

Shri D. K. Dalal  
Programme Officer (ATC)

BRNS Secretariat, 1<sup>st</sup> Floor, CC,  
BARC, Trombay, Mumbai-400085  
Phone: 25594683  
E-mail: dkdalal@barc.gov.in

No. 34(1)/14/30/2014-BRNS/34064

Date: 21/12/2015

**OFFICE MEMORANDUM**

Sub: R/P entitled "Irradiation supported design and study of nonlinear optical materials for photonic applications" under Dr. Rajesh Kumar P C, Department of Physics, St. Joseph Engineering College, Vamanjoor, Mangalore 575 028 bearing sanction No.34(1)/14/30/2014-BRNS with ATC, BRNS.

In continuation of this Department's Office Memorandum no. 34(1)/14/30/2014-BRNS/ 1923 dated 26/11/2014, on the recommendations of Board of Research in Nuclear Sciences (BRNS), I am pleased to convey the administrative approval of the President of India for the continuance of the captioned research project during 2015-16 and to revalidate the said sanction for ₹7,14,775/- (Rupees seven lakh fourteen thousand seven hundred seventy five only) for the year 2014-15 to 2015-16.

I am also pleased to convey the sanction of the President of India to incur an expenditure of ₹1,08,000/- towards staff salary enhancement for the year 2015-16.

With this the total grant for the year 2015-16 amounts to ₹ 8,22,775/- (Rupees eight lakhs twenty two thousand seven hundred and seventy five only)

2. The other Terms and Conditions of the sanction letter no. No. 34(1)/14/30/2014-BRNS/1923 dated 26/11/2014 will remain unchanged.

3. This issues with the concurrence of the Scientific Secretary, BRNS and IFA.

4. The expenditure involved is debitable to:

Grant No.	-	04	Atomic Energy
Major Head	-	3401	Atomic Energy Research
Minor Head	-	00 004	Research & Development
Sub Head	-	08 02	Board of Research in Nuclear Sciences (BRNS)
Detailed Head	-	08 02 31	Grant-in-aid

Pay & Accounts Officer,  
DAE, Anushakti Bhavan, Mumbai- 400001

*[Signature]*  
[Dr. Rajesh Kumar P C]

*[Signature]*  
(D. K. Dalal)





Government of India  
Department of Atomic Energy (DAE)  
Board of Research in Nuclear Sciences (BRNS)

Shri D.K. Dalal  
Programme Officer (ATC)

BRNS Secretariat, 1st Floor, CC,  
BARC, Trombay, Mumbai-400085.  
Phone: +91-2225594683  
Email: dkdalal@barc.gov.in

No: 34(1)/14/30/2014-BRNS/34105

Date: 08/06/2016

OFFICE MEMORANDUM


Sub: R/P entitled "Irradiation supported design and Study of Nonlinear Optical Materials for Photonic Applications" under Dr. Rajesh Kumar PC, Dept. of Physics, St. Joseph Engineering College, Vamanjoor, Mangalore 575028 bearing sanction 34(1)/14/30/2014-BRNS with ATC, BRNS.

In continuation of this Department's OM of even number dated 21/12/2015 on the recommendations of the Board of Research in Nuclear Sciences (BRNS), I am pleased to convey the administrative approval of the President of India for the continuance of captioned project during 2016-2017 and sanction to incur an expenditure of Rs. 4,38,500/- (Rupees four lakh thirty eight thousand and five hundred only) as detailed below:

Item of expenditure	Year 2 (2016-2017)
Equipments	0
Staff Salary - JRF	300000
Technical Assistance	30000
Consumables	30000
Travel - PI	20000
Contingencies	30000
Overheads	28500
Total(INR)	438500

- Staff Salary JRF @ Rs. 25,000pm
- The grant remaining unspent under the Heads "Equipments", "Consumables" and "Overheads" for the year 2015-2016 are allowed to be carried forward to the current financial year 2016-2017.
- The expenditure involved is debitable to the following Head of Account: 3401 00 004 27 02 31
- This issues with the concurrence of Scientific Secretary, BRNS and IFA.  
The overheads shall be distributed between the PI's Institution and Microtron Centre, Mangalore University in equal share. The 50% of the overheads shall be remitted to Microtron centre.

Pay & Accounts Officer, DAE, Mumbai-400 001

  
Shri D.K. Dalal







Government of India  
Department of Atomic Energy (DAE)  
Board of Research in Nuclear Sciences (BRNS)

Shri D.K. Dalal  
Programme Officer (ATC)

BRNS Secretariat, 1st Floor, CC,  
BARC, Trombay, Mumbai-400085.  
Phone: +91-2225594683  
Email: dkdalal@barc.gov.in

No: 34(1)/14/30/2014-BRNS/34319

Date: 23/08/2017

**OFFICE MEMORANDUM**

Sub: Terminal grant-in aid for the year 2017-2018, for the R/P entitled "Irradiation supported design and Study of Nonlinear Optical Materials for Photonic Applications" under Dr. Rajesh Kumar PC, Dept. of Physics, St. Joseph Engineering College, Vamanjoor, Mangalore 575028 bearing sanction 34(1)/14/30/2014-BRNS with ATC, BRNS.

In continuation of this Department letter of even number dated 08/06/2016, on the recommendations of the Board of Research in Nuclear Sciences (BRNS), I am pleased to convey the administrative approval of the President of India for the continuance of captioned project during 2017-2018 and sanction to incur an expenditure of Rs. 4,68,923/- (Rupees four lakh sixty eight thousand nine hundred twenty three only) as detailed below:

Item of expenditure	Year 3 (2017-2018)
Staff Salary - SRF	328300
Technical Assistance	30000
Consumables	30000
Travel - PI	20000
Contingencies	30000
Overheads	30623
<b>Total(INR)</b>	<b>468923</b>


Date of Termination of the Project : 31/03/2018.

- Staff salary @ JRF for the period 01/04/2017 to 17/06/2017 and @ SRF for the period 18/06/2017 to 31/03/2018. The grant remaining unspent under the Heads "Equipments", "Consumables" and "Overheads" for the year 2016-2017 are allowed to be carried forward to the current financial year 2017-2018. The expenditure involved is debitible to the following Head of Account: 04 3401 00 004 27 02 31

- This issues with the concurrence of Scientific Secretary, BRNS and IFA.

*The overheads shall be distributed between the PI's Institution and Microtron Centre, Mangalore University in equal share. The 50% of the overheads shall be remitted to Microtron centre.*

Pay & Accounts Officer, DAE, Mumbai-400 001.

  
Shri D.K. Dalal



Copy forwarded to:





सत्यमेव जयते

Government of India  
Department of Atomic Energy (DAE)  
Board of Research in Nuclear Sciences (BRNS)

Shri D. K. Dalal  
Programme Officer (ATC)

BRNS Secretariat, 1<sup>st</sup> Floor, CC,  
BARC, Trombay, Mumbai-400085  
Phone:25594683,  
e-mail: dkdalal@barc.gov.in  
Date:12/07/2018

No. 34(1)/14/30/2014-BRNS/34132

**OFFICE MEMORANDUM**


Sub: Extension grant in aid 2018-19 for R/P entitled "Irradiation supported design and study of nonlinear optical materials for photonic applications" under Dr. Rajesh Kumar P C, Department of Physics, St. Joseph Engineering College, Vamanjoor, Mangalore 575 028 bearing sanction No.34(1)/14/30/2014-BRNS with ATC, BRNS.

In continuation of this Department's Office Memorandum number 34319 dated 23/08/2017, on the recommendations of Board of Research in Nuclear Sciences (BRNS), I am pleased to convey the administrative approval of the President of India for the extension of captioned project upto 31/12/2018 and sanction to incur an expenditure of ₹3,02,400/- (Rupees one lakh eighty thousand six hundred only) as detailed below:-

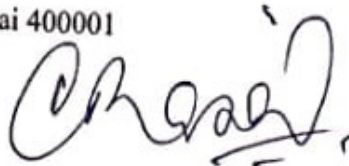
Item of expenditure	Amount (Rupees)
# Staff : SRF(1)	252000
Consumables	20000
Contingency	10000
\$ Overheads	20400
Total:	3,02,400

- # SRF Fellowship is calculated @ ₹28,000/- pm
- \$ Overheads calculated @ 7.5% of the other heads **except** contingency. The remaining 7.5% towards overheads (₹20,400) shall be released only on meeting the requirements specified.
- 2. The captioned project will stand terminated on 31/12/2018.**
3. The grant remaining unspent under various is allowed to be carried forward and utilized during the extension period.
4. The expenditure involved is debit to: 04 3401 00 004 27 02 31.
5. The other Terms and Conditions of the sanction letter of even number dated 23/08/2017 will remain unchanged.
6. This issues with the concurrence of the competent Authority in the Department.

*The overheads shall be distributed between the PI's Institution and Microtron Centre, Mangalore University in equal share. The 50% of the overheads shall be remitted to Microtron centre.*

  
(D. K. Dalal)

Pay & Accounts Officer, DAE, Mumbai 400001





MEMORANDUM OF UNDERSTANDING

BETWEEN

INSTITUTE FOR PLASMA RESEARCH  
GANDHINAGAR, GUJARAT-382 428

AND

ST. JOSEPH ENGINEERING COLLEGE  
MANGALORE, KARNATAKA-575 028

FOR

“DESIGN, DEVELOPMENT AND OPTIMIZATION OF  
METAL HYDRIDE BEDS FOR HYDROGEN ISOTOPES  
STORAGE AND TRANSPORTATION”



MAY 2016





## 1.0 PREAMBLE

Institute for Plasma Research (IPR), Gandhinagar, India is currently involved in the design and development of tritium breeding blanket technologies for future fusion reactor systems. Tritium Extraction System (TES) is one of the most important ancillary systems of a fusion fuel cycle technologies for a fusion reactor. Tritium bred in blanket is extracted by low pressure helium purge gas. The extracted tritium is recovered by Tritium Removal System (TRS). This recovered tritium is then stored in getter beds (metal hydride beds) and utilized for fuelling back into the reactor.

St Joseph Engineering College (SJEC), Mangalore, is affiliated to Visvesvaraya Technological University, Belgaum, Karnataka, is recognised by the All India Council for Technical Education (AICTE), New Delhi. Prof Purushothama Chippar from SJEC has extensive experience in developing numerical models for electrochemical systems. He has developed multidimensional, multi-phase models for various types of fuel cells. His expertise also includes designing and developing of metal hydride based hydrogen isotope storage systems.

In this context, SJEC agreed to take up the work to design, develop and optimize metal hydride vessels for hydrogen isotopes storage under the MoU entitled,

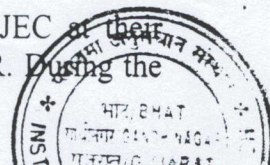
### **“DESIGN, DEVELOPMENT AND OPTIMIZATION OF METAL HYDRIDE BEDS FOR HYDROGEN ISOTOPES STORAGE AND TRANSPORTATION”**

The main objective of the work is to conduct numerical and experimental study on metal hydride (MH) based hydrogen storage systems. Firstly, a multi-dimensional, unsteady, non-isothermal mathematical model rigorously accounting for the reaction kinetics and heat & mass transfer mechanisms during the hydrogen absorption and desorption processes in MH storage system will be developed. Then the model will be validated against available experimental data in the literature, result analysis (understanding parameters, such as temperature evolution, H/M atomic ratio, hydrogen velocity, equilibrium pressure etc., and resulting heat & mass transfer phenomena in MH vessels) and suggesting appropriate metal material and optimizing the vessel design/operating conditions/cooling systems to obtain favourable hydrogen absorption/desorption behaviour will be performed. From these simulation results, next step is to design, fabricate and test the MH vessel. Performance (storage capacity and storage time) studies will be carried out by varying the supply pressure and the cooling/heating temperature of the hydride bed. Further, the mathematical model will be used to explore the feasibility to store tritium.

## 2.0 Scope of work

This project involves development of mathematical model for storage of hydrogen isotopes in the form of metal hydride beds, validation of the model and development of metal hydride design to perform R&D experiments. The complete scope defined in this MoU will be performed by SJEC. The details of the scope of work are given below:

The development of modelling and simulations tools will be executed by SJEC at their premises based on the technical requirements for the MH beds provided by IPR. During the





The results generated from the project will be the joint property of IPR and SJEC. However, neither party will assign any rights of the intellectual property to a third party without the explicit written consent of the other party.

SJEC may publish the academic results arising from the project subject to written consent from IPR and vice versa.

## **7.0 AMENDMENTS TO THE AGREEMENT**

No amendments or modification of this agreement shall be valid unless the same is made in writing by both the parties' authorized representative and specifically stating the same to be an amendment to this agreement. The modifications/changes shall be effective from the date on which they are made/ executed, unless otherwise agreed to.

## **8.0 ARBITRATION**

Except as herein before provided, all disputes, arising out of or in connection with this agreement, shall be referred to the sole arbitration of a person to be nominated by Director, SJEC and Director, IPR. The award of the Arbitrator shall be final and binding on the parties. The Arbitrator may, from time to time, with the consent of the parties, enlarge the scope and time for making and publishing the award.

## **9.0 LIABILITY CLAUSE**

In all actions taken under and in accordance with this Agreement, each party hereto agrees to be responsible and assume liability for its own wrongful or negligent acts or omissions, and agrees to indemnify and hold the other Party harmless from any such liability.

## **10.0 KEY PERSONNEL**

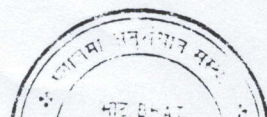
Following personnel from both SJEC and IPR will be responsible in carrying out the project work.

- (1) Prof Purushothama Chippa (Project Investigator, SJEC)
- (2) Dr Amit Sircar (Project Coordinator, IPR)
- (3) Mr E Rajendra Kumar (Member, IPR)
- (4) Mr Swaraj D Lewis, Ph.D. Student, SJEC
- (5) Mr Sudhir Rai (Engineer, IPR)
- (6) Ms V. Gayathri Devi (Engineer, IPR)

## **11.0 SCHEDULE**

This memorandum shall enter into force on the date of signature, being effective until two years from this date. In the event of the parties, desiring to extend the effective period, it may be extended after mutual consultation and agreement.

All work under the MoU shall be endeavoured to be completed as per project schedules given in Table 1.





The above dates cover a period of 2 years from the start of the project. Timelines will shift forward with respect to starting date.

## 12.0 FINANCIAL AGREEMENT/ MODE OF PAYMENT

12.1 The total project cost to be paid to SJEC for carrying out work under the scope of this agreement is ₹ 13,50,000/- (Rupees thirteen lakh fifty thousand only). Applicable service tax will be reimbursed by IPR.

12.2 Mode of payment shall be as follows:

- (i) The amount of 30% of the total project cost (₹ 4.05 Lakhs) shall be paid in advance at the time of signing of the MoU against bank guarantee of equivalent amount valid up to the completion of the project.
- (ii) The second payment of ₹ 4.05 Lakhs shall be paid after five months against submission of the report on the three dimensional metal hydride model for hydrogen storage (accounting for the reaction kinetics and heat & mass transfer mechanisms during absorption and desorption) and basic simulation results.
- (iii) The third payment of ₹ 2.70 Lakhs shall be paid against submission of report on validation of metal hydride model for hydrogen storage against available experimental data in the literature and modifying the metal hydride model for deuterium/tritium storage.
- (iv) The fourth and final payment of ₹ 2.70 Lakhs shall be discussed and finalized by PRC on the completion of the project.

All the payments will be subject to Tax deduction as per Section 194J of Income Tax Act. SJEC will have to provide their PAN Number. Payment will be released directly to Oriental Bank of Commerce, Vamanjoor Branch, Mangalore-575028, Account No. 10792191000057 with IFSC Code ORBC0100966, Name of account holder : Principal, St. Joseph Engineering College, Mangalore.

## 13.0 TERMINATION OF MOU

IPR may at any time after three (3) months written notice, terminate the work in whole or in part by requiring to discontinue the performance of any or all of the services or work mentioned herein, in which case SJEC shall have no claim against IPR by reasons of such termination, except that IPR shall pay to SJEC all amounts due limited to progress of work by SJEC personnel and other expenses incurred, if any, during the notice period but IPR shall not be liable to pay any bonus, damages or other claims of SJEC for loss of expected profit or interest on the incomplete portions of the work.

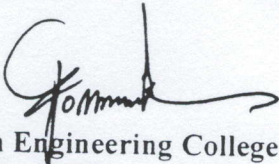
Similarly, SJEC may at any time after three (3) months written notice, terminate the assignment in whole or in part and discontinue the performance of any or all of the services as mentioned herein, in which case IPR shall have no claims against SJEC by reasons of such termination.

This memorandum shall enter into force on the date of signature, being effective until two years. In the event of the parties, desiring to extend the effective period, it may be extended



This MoU shall be solely based on the terms and conditions agreed to between IPR and SJEC and no amendment thereof shall take effect unless such amendment is authorized by the concerned chief executives of both the parties.

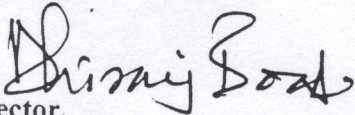
This MoU will be effective from the date of signing for 2 years. MoU can be extended by written agreement of both the parties.

Director,   
St Joseph Engineering College,  
Mangalore (SJEC)

Name: Rev Fr Joseph Lobo

Date : MAY 06, 2016

DIRECTOR  
ST JOSEPH ENGINEERING COLLEGE  
VAMANJOOR, MANGALORE -  
KARNATAKA, INDIA

x   
Director,  
Institute for Plasma Research,  
Gandhinagar (IPR)

Name: Prof Dhiraj Bora

Date : MAY 02, 2016

Prof. Dhiraj Bora  
Director,  
*Institute for Plasma Research*  
Nr. Indira Bridge, Bhat,  
GANDHINAGAR-382 428.





# ST JOSEPH ENGINEERING COLLEGE

(Affiliated to VTU, Belagavi and recognised by the AICTE, New Delhi.  
B.E. - CSE, ECE, EEE, ME Accredited by NBA, New Delhi)

ಸಂತ ಜೋಸೆಫ್ ತಾಂತ್ರಿಕ ಮಹಾವಿದ್ಯಾಲಯ

Ref. No.SJEC/Prin/B/2019/40

Date: 14 May 2019

To  
Dr.Satish Annigeri  
Registrar (I/C)  
Visvesvaraya Technological University  
"Jnana Sangama" Belagavi - 590 018

Dear Sir

**Sub: Regarding Financial Assistance for Innovative Projects of Final Year Undergraduate Students for the year 2018-19**

Ref: VTU/BGM/Area-OS/Gen-Cir/2018-19/10716 VTU dated 02 March 2019

With reference to the above we are submitting the detailed Project report of all the selected projects from all branches at Undergraduate level offered by the College. The projects were selected by Departmental Committees constituted as per norms specified.

SL No.	Branch	Title of the Project	Names of the student	Name of Guide
1	Electrical & Electronics Engineering	AniMo- Animal Vitals Monitoring System	1. Bhavyashree 2. Evon Treza Sequeira 3. Shreyas K: 4. Sujan	Mr Sathisha K
2	Electrical & Electronics Engineering	Aqua Drone-RC Floating Waste Collector & Water -Air Quality Monitoring System	1.Arrol Devin Pereira 2. Manjunath 3. Prashant 4. Shivaprasad S. Katti	Mr Sanath Saralaya
3	Civil Engineering	Water Filtration bed and ceramic microfiltration membrane from mineral coal fly ash	1. Ms Mahima S Rao 2.Mr Melroy Royston Dsouza 3. Mr Mahesha S M 4.Ms Vaishnavi T Rajeev	Dr Nalini Rebello






## ST JOSEPH ENGINEERING COLLEGE

Continuation Sheet

4	Civil Engineering	Proposal for increasing the efficiency of the existing sequential batch reactor of St Joseph Engineering College	1. Mr Dheeraj 2. Ms Mohita M Manjrekhar 3. Mr Musthakeem Mohammed 4. Mr Kiran Kumar Raikar	Mr Ajeeth B
5	Mechanical Engineering	Design and fabrication of compact cereal puffing machine	1. Joshua Nihal Cutinha 2. Galvin Gian Fernandes 3. Anand Krishnan 4. Aravind C	Mr Neil Vaz
6	Mechanical Engineering	Recycling and conversion of waste pet bottle into acrylic paint	1. Rajath R 2. Prajwal 3. Pavan Kumar 4. Manish S Shetty	Mr. Vinoothan Kaliveer
7	Computer Science Engineering	Self-Driving Car for the Handicapped	1. Akarsh Dmello 2. Errol Vismith Dmello 3. Yuktha Raman G V	Mr Shreenath Acharya
8	Computer Science Engineering	Automated Public Distribution System	1. Anvitha K S 2. Albert Taitas 3. Apeksha 4. Daryl Clare Saldhana	Ms Eden Sequeira
9	Electronics & Communication Engineering	Design and self stabilization of unmanned aerial vehicle using PID controller	1. Nishanth 2. Dhanush Kumar M R 3. K Adithya Rao 4. Hafeel Hasan	Ms. Jayalakshmi K P
10	Electronics & Communication Engineering	EMG based prosthetic leg	1. Abdul Rahoof 2. Aditya.R.Baliga 3. Amina Naba 4. Daryll Ralph D'Costa	Ms Preetha D'Souza

This is for your kind information and further needful.

  
Dr Rio D'Souza  
Principal



Enclosed: Project reports



## Interdepartmental Communication

Ref No : SJEC/ECE/2019/49

27/07/19

**Sub: Regarding Disbursal of amount of Rs 50,000 sanctioned by VTU for Innovative Projects of Final Year Undergraduate Students for the year 2018-19**

Ref: Sanction of Financial Assistance for 2018-19 to the selected projects of UG Students.  
VTU Letter Ref: VTU/Aca./A-4/2019-20/2465/104 dated 11 July 2019

With reference to the above subject, Rs 50,000 was sanctioned by VTU for Innovative Projects of Final Year under Graduate Students for the year 2018-19.

Each project group is allotted a sum of Rs.5,000/- for the Innovative project. The amount is distributed equally to all the team members, as shown below:

S. No.	Branch	Title of the Project	Name of Guide	Names of the student	Amount to be paid (Rs)
1	Electrical & Electronics Engineering	AniMo- Animal Vitals Monitoring System	Mr Sathisha K	1. Bhavyashree	Rs. 1250
				2. Evon Treza Sequeira	Rs. 1250
				3. Shreyas K.	Rs. 1250
				4. Sujan	Rs. 1250
2	Electrical & Electronics Engineering	Aqua Drone-RC Floating Waste Collector & Air quality Monitoring system	Mr Sanath Saralaya	1. Arrol Devin Pereira	Rs. 1250
				2. Manjunath	Rs. 1250
				3. Prashant	Rs. 1250
				4. Shivaprasad S. Katti	Rs. 1250
3	Civil Engineering	Water Filtration bed and ceramic microfiltration membrane from mineral coal fly ash	Dr Nalini Rebello	1. Mahima S Rao	Rs. 1250
				2. Melroy Royston Dsouza	Rs. 1250
				3. Mahesha S M	Rs. 1250
				4. Vaishnavi T Rajeev	Rs. 1250



4	Civil Engineering	Proposal for increasing the efficiency of the existing sequential batch reactor of St Joseph Engineering College	Mr Ajeeth B	1. Dheeraj	Rs. 1250
				2. Mohita M Manjrekhar	Rs. 1250
				3. Musthakeem Mohammed	Rs. 1250
				4. Kiran Kumar Raikar	Rs. 1250
5	Mechanical Engineering	Design and fabrication of compact cereal puffing machine	Mr Neil Vaz	1. Joshua Nihal Cutinha	Rs. 1250
				2. Galvin Gian Fernandes	Rs. 1250
				3. Anand Krishnan	Rs. 1250
				4. Aravind C	Rs. 1250
6	Mechanical Engineering	Recycling and conversion of waste pet bottle into acrylic paint	Mr. Vinoothan Kaliveer	1. Rajath R	Rs. 1250
				2. Prajwal	Rs. 1250
				3. Pavan Kumar	Rs. 1250
				4. Manish S Shetty	Rs. 1250
7	Computer Science Engineering	Self-Driving Car for the Handicapped	Mr Shreenath Acharya	1. Akarsh Dmello	Rs. 1666
				2. Errol Vismith Dmello	Rs. 1666
				3. Yuktha Raman G V	Rs. 1666
8	Computer Science Engineering	Automated Public Distribution System	Ms Eden Sequeira	1. Anvitha K S	Rs. 1250
				2. Albert Taitas	Rs. 1250
				3. Apeksha	Rs. 1250
				4. Daryl Clare Saldhana	Rs. 1250
9	Electronics & Communications Engineering	Design and self stabilization of unmanned aerial vehicle using PID controller	Ms. Jayalakshmi K P	1. Nishanth	Rs. 1250
				2. Dhanush Kumar M R	Rs. 1250
				3. K AdithyaRao	Rs. 1250
				4. Hafeel Hasan	Rs. 1250



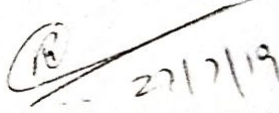
10	Electronics & Communications Engineering	EMG based prosthetic leg	Ms Preetha D'Souza	1. Abdul Rahoof	Rs. 1250
				2. Aditya.R.Baliga	Rs. 1250
				3. Amina Naba	Rs. 1250
				4. Daryll Ralph D'costa	Rs. 1250

Kindly submit the bank details of the above students before 05/08/2019 as per the below format in softcopy to the email address [reshmak@sjec.ac.in](mailto:reshmak@sjec.ac.in)

Department	Student Name as per bank passbook	Bank name	Account Number	IFSC Code

Kindly furnish the correct bank details, since the amount will be transferred directly to the student's bank account.

RLS 27/7/19  
 Ms Reshma K J  
 Asst Professor  
 ECE Dept. SJEC

  
 Dr Rio D'souza  
 Principal  
 SJEC, Vamanjoor

Copy to: Director/Asst Director/Principal/All Hods with a request to inform all Guides and selected project students





**Karnataka State Council for Science and Technology**  
Indian Institute of Science Campus, Bengaluru - 560 012

Telephone: 080-23341652, 23340040, 23340040 ♦ Telefax: 080-23340040  
Email: office@kscst.iisc.ernet.in, office@kscst.org.in ♦ Website: www.kscst.iisc.ernet.in, www.kscst.org.in

**Dr. S. G. Sreekanteswara Swamy**  
Executive Secretary

28th March 2018

Ref: 7.1.01/SPP/08

The Principal,  
St. Josephs Engineering College,  
Vamanjoor,  
Mangaluru - 575 028.

Dear Sir,

Sub : Sanction of Student Project - 41st Series: Year 2017-2018  
Your Project Proposal Reference No. : 41S\_BE\_0280

Ref : Your Project Proposal entitled " **GYRO CONTROLLED MOTORISED TRICYCLE FOR PHYSICALLY DISABLED**

I am happy to inform that your project proposal referred above, has been approved by the Secretary, KSCST for "Student Project Programme - 41st Series" and has been sanctioned with a budgetary break-up as detailed below:

Student / s	Mr. Vishal H Bhandary and others	Budget	Amount (Rs)
		Materials/Consumables	6,000.00
Guide/s	Ms. Mayuri R	Labor	-
		Travel	-
Department	Electrical And Electronics Engineering	Miscellaneous	500.00
		Report	500.00
		<b>TOTAL</b>	<b>7,000.00</b>
<b>RUPEES SEVEN THOUSAND</b>			

The following are the guidelines to carryout the project work :

- The project should be performed based on the objectives of the proposal sent by you.
- The project should be completed in all respects and one copy of the hardbound report along with softcopy of the full report in a CD (.pdf format) should be submitted to KSCST.
- Any change in the project title and objectives, etc., or students is liable to rejection of the project and the amount sanctioned needs to be returned to KSCST.
- Please quote your project sanction reference number printed above in all your future correspondences.
- Important:** After completing the project, 2 to 3 page write-up (synopsis) needs to be sent by e-mail [spp@kscst.iisc.ernet.in] and should include following :
  - Title of the project
  - Name of the College & Department
  - Name of the students & Guide(s)
  - Keywords



- 6) Introduction / background  
(with specific reference to the project, work done earlier, etc) - about 20 lines
- 6) Objectives (about 10 lines)
- 7) Methodology (about 20 lines)  
(materials, methods, details of work carried out, including drawings, diagrams etc)
- 8) Results and Conclusions  
(about 20 lines with specific reference to work carried out)
- 9) Scope for future work (about 20 lines).

**(Note: The write-up (Synopsis) should be sent with the approval of project guide. The softcopy of the write-up, in MS Word format, should be sent by e-mail (spp@kscst.iisc.ernet.in). In your e-mail, please also include project proposal reference number and title of the project.)**

e) Projects selected for Seminar / Exhibition will be awarded.

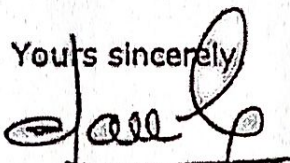
The sanctioned amount will be sent separately by our Accounts Department.

**The sponsored projects evaluation will be held in the Nodal Centre and the details of the nodal centre will be intimated shortly by e-mail / Website announcement.**

Please visit our website for further announcements / information and for any clarifications please email to spp@kscst.iisc.ernet.in

Thanking you and with best regards,

Yours sincerely,



(S.G.S. Swamy)

Copy to:

- 1) The Head of the Department of  
Electrical And Electronics Engineering  
St. Josephs Engineering College,  
Vamanjoor,  
Mangaluru - 575 028.
- 2) Ms. Mayuri R  
Department of Electrical And Electronics Engineering  
St. Josephs Engineering College,  
Vamanjoor,  
Mangaluru - 575 028.
- 3) The Finance Officer, KSCST, Bangalore



RE\_0780

# **GYRO CONTROLLED MOTORISED TRI-CYCLE FOR PHYSICALLY DISABLED**

<b>Vishal H Bhandary</b>	<b>4SO14EE042</b>
<b>TrassiaLavita Rodrigues A</b>	<b>4SO14EE038</b>
<b>Shainy John</b>	<b>4SO14EE029</b>
<b>Apsar S P</b>	<b>4SO15EE400</b>

**Project Guide: Ms. Mayuri R**

**Assistant Professor**

**Department of Electrical & Electronics**

**St Joseph Engineering College, Mangaluru-575028**



## ABSTRACT

A common problem faced by the paraplegics\* is that they have to maneuver their wheelchairs with the assistance of others. This is a cause of great distress to the patients as it robs their independence. This is further accentuated by a lack of empathy towards the wheelchairs bound in society.

The existing systems for paraplegics such as voice controlled wheelchairs have some drawbacks. Some of these are that those cannot be used in noisy areas as well as those cannot be used by the dumb people. This tri-cycle has been conceptualized as a solution to the above problems faced by the paraplegic community.

The system consists of a motorized tri-cycle controlled by an accelerometer mounted on a head phone along with the transmitter circuit for wireless communication. The receiver circuit consisting of relay H-bridge motor driver is placed at the base frame of the tricycle.

The user wears the head phone and controls the motion of the tri-cycle by tilting his/her head in the desired direction of motion. The system operates on a pair of DC motors controlled by a receiver based on Arduino. The tri-cycle enables a paraplegic to attain complete mobility at the expense of minimal effort.

A full scale working model of the tri-cycle has been successfully designed and fabricated. The model supports a weight of up to 80kg in its current configuration. There is further scope to improvise the project by adding features like step climbing and powering it using solar energy. This can be further improved by adding GPS for location detection and GSM to communicate to mobile or computer when there exists some problem.

\*paraplegic: For the purpose of this project, a wheelchair bound person is termed as a paraplegic.









**Karnataka State Council for Science and Technology**  
Indian Institute of Science Campus, Bengaluru - 560 012

Telephone: 080-23341652, 23348848, 23348849 ♦ Telefax: 080-23348840

Email: office@kscst.iisc.emet.in, office@kscst.org.in ♦ Website: www.kscst.iisc.emet.in, www.kscst.org.in

**Mr. H. Hemanth Kumar**  
Executive Secretary

27th March 2019

Ref: 7.1.01/SPP/1333

The Principal,  
St. Josephs Engineering College,  
Vamanjoor,  
Mangaluru - 575 028.

Dear Sir/Madam,

Sub : Sanction of Student Project - 42nd Series: Year 2018-2019  
Your Project Proposal Reference No. : **42S\_BE\_2727**

Ref : Your Project Proposal entitled " **DEVELOPMENT OF WATER FILTRATION UNIT USING PVA BASED COMPOSITE MEMBRANE AND FLYASH**

I am happy to inform that your student project proposal referred above, has been approved by the Council for "Student Project Programme - 42nd Series" and has been sanctioned with a budgetary break-up as detailed below:

Student / s	Ms. Mahima S Rao and others	Budget	Amount (Rs)
		Materials/Consumables	7,000.00
Guide/s	Dr. Nalini Rebello	Labor	-
		Travel	-
Department	Civil Engineering	Miscellaneous	500.00
		Report	500.00
		<b>TOTAL</b>	<b>8,000.00</b>
<b>EIGHT THOUSAND RUPEES ONLY</b>			

The following are the guidelines to carryout the project work :

- The project should be performed based on the objectives of the proposal sent by you.
- The project should be completed in all respects and one copy of the hardbound report along with softcopy of the full report in a CD (.pdf format) should be submitted to KSCST.
- Any change in the project title and objectives, etc., or students is liable to rejection of the project and the amount sanctioned needs to be returned to KSCST.
- Please quote your **project reference number printed above** in all your future correspondences.
- Important:** After completing the project, 2 to 3 page write-up (synopsis) needs to be sent by e-mail [spp@kscst.iisc.ernet.in] and should include following :
  - Title of the project
  - Name of the College & Department
  - Name of the students & Guide(s)
  - Keywords

Faculty Circulation  
& KSCST file  
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- 6) Introduction / background  
(with specific reference to the project, work done earlier, etc) - about 20 lines
- 6) Objectives (about 10 lines)
- 7) Methodology (about 20 lines)  
(materials, methods, details of work carried out, including drawings, diagrams etc)
- 8) Results and Conclusions  
(about 20 lines with specific reference to work carried out)
- 9) Scope for future work (about 20 lines).

**(Note: The write-up (Synopsis) should be sent with the approval of project guide. The softcopy of the write-up, in MS Word format, should be sent by e-mail (spp@kscst.iisc.ernet.in). In your e-mail, please also include project proposal reference number and title of the project.)**

- e) Projects selected for Seminar / Exhibition will be awarded.

The sanctioned amount will be sent through NEFT by Accounts Department. Please furnish the bank account details as per the format enclosed with this letter.

**The sponsored projects evaluation will be held in the Nodal Centre and the details of the nodal centre will be intimated shortly by e-mail / Website announcement.**

Please visit our website for further announcements / information and for any clarifications please email to spp@kscst.iisc.ernet.in

Thanking you and with best regards,

Yours sincerely,



(H. Hemant Kumar)

Copy to:

1) The Head of the Department of  
Civil Engineering  
St. Josephs Engineering College,  
Vamanjoor,  
Mangaluru - 575 028.

2) Dr. Nalini Rebello  
Department of Civil Engineering  
St. Josephs Engineering College,  
Vamanjoor,  
Mangaluru - 575 028.

3) The Finance Officer, KSCST, Bangalore

Encl: As Above





**Karnataka State Council for Science and Technology**  
Indian Institute of Science Campus, Bengaluru - 560 012

Telephone: 080-23341652, 23348848, 23348849 ♦ Telefax: 080-23348840  
Email: office@kscst.iisc.ernet.in, office@kscst.org.in ♦ Website: www.kscst.iisc.ernet.in, www.kscst.org.in

**Mr. H. Hemanth Kumar**  
Executive Secretary

Ref: 7.1.01/SPP/1333

27th March 2019

The Principal,  
St. Josephs Engineering College,  
Vamanjoor,  
Mangaluru - 575 028.

Dear Sir/Madam,

Sub : Sanction of Student Project - 42nd Series: Year 2018-2019  
Your Project Proposal Reference No. : **42S\_BE\_2731**

Ref : Your Project Proposal entitled " **DESIGN AND FABRICATION OF LOW COST WATER FILTER UNIT**

I am happy to inform that your student project proposal referred above, has been approved by the Council for "Student Project Programme - 42nd Series" and has been sanctioned with a budgetary break-up as detailed below:

Student / s	Ms. Mamatha and others	Budget	Amount (Rs)
Guide/s	Mr. Prashant. Kurdekar	Materials/Consumables	4,000.00
		Labor	500.00
		Travel	500.00
Department	Civil Engineering	Miscellaneous	500.00
		Report	500.00
		<b>TOTAL</b>	<b>6,000.00</b>
<b>SIX THOUSAND RUPEES ONLY</b>			

The following are the guidelines to carryout the project work :

- The project should be performed based on the objectives of the proposal sent by you.
- The project should be completed in all respects and one copy of the hardbound report along with softcopy of the full report in a CD (.pdf format) should be submitted to KSCST.
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  - Title of the project
  - Name of the College & Department
  - Name of the students & Guide(s)
  - Keywords

Faculty Circulation & KSCST Bk  
10/1/19



- 6) Introduction / background  
(with specific reference to the project, work done earlier, etc) - about 20 lines
- 6) Objectives (about 10 lines)
- 7) Methodology (about 20 lines)  
(materials, methods, details of work carried out, including drawings, diagrams etc)
- 8) Results and Conclusions  
(about 20 lines with specific reference to work carried out)
- 9) Scope for future work (about 20 lines).

**(Note: The write-up (Synopsis) should be sent with the approval of project guide. The softcopy of the write-up, in MS Word format, should be sent by e-mail (spp@kscst.iisc.ernet.in). In your e-mail, please also include project proposal reference number and title of the project.)**

- e) Projects selected for Seminar / Exhibition will be awarded.

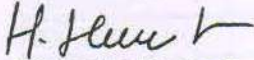
The sanctioned amount will be sent through NEFT by Accounts Department. Please furnish the bank account details as per the format enclosed with this letter.

**The sponsored projects evaluation will be held in the Nodal Centre and the details of the nodal centre will be intimated shortly by e-mail / Website announcement.**

Please visit our website for further announcements / information and for any clarifications please email to spp@kscst.iisc.ernet.in

Thanking you and with best regards,

Yours sincerely,



(H. Hemant Kumar)

Copy to:

- 1) The Head of the Department of  
Civil Engineering  
St. Josephs Engineering College;  
Vamanjoor,  
Mangaluru - 575 028.

- 2) Mr. Prashant. Kurdekar  
Department of Civil Engineering  
St. Josephs Engineering College,  
Vamanjoor,  
Mangaluru - 575 028.

- 3) The Finance Officer, KSCST, Bangalore

Encl: As Above





**Karnataka State Council for Science and Technology**  
Indian Institute of Science Campus, Bengaluru - 560 012

Telephone: 080-23341652, 23348848, 23348849 ♦ Telefax: 080-23348840

Email: office@kscst.iisc.emet.in, office@kscst.org.in ♦ Website: www.kscst.iisc.emet.in, www.kscst.org.in

**Mr. H. Hemanth Kumar**  
Executive Secretary

27th March 2019

Ref: 7.1.01/SPP/1333

The Principal,  
St. Josephs Engineering College,  
Vamanjoor,  
Mangaluru - 575 028.

Dear Sir/Madam,

Sub : Sanction of Student Project - 42nd Series: Year 2018-2019  
Your Project Proposal Reference No. : 42S\_BE\_2729

Ref : Your Project Proposal entitled " **AN EXPERIMENTAL STUDY ON RECYCLED CONCRETE**

I am happy to inform that your student project proposal referred above, has been approved by the Council for "Student Project Programme - 42nd Series" and has been sanctioned with a budgetary break-up as detailed below:

Student / s	Mr. Aditya Rao H and others	Budget	Amount (Rs)
		Materials/Consumables	5,000.00
Guide/s	Mr. Sachin U	Labor	-
		Travel	500.00
Department	Civil Engineering	Miscellaneous	500.00
		Report	500.00
		<b>TOTAL</b>	<b>6,500.00</b>
<b>SIX THOUSAND FIVE HUNDRED RUPEES ONLY</b>			

The following are the guidelines to carryout the project work :

- The project should be performed based on the objectives of the proposal sent by you.
- The project should be completed in all respects and one copy of the hardbound report along with softcopy of the full report in a CD (.pdf format) should be submitted to KSCST.
- Any change in the project title and objectives, etc., or students is liable to rejection of the project and the amount sanctioned needs to be returned to KSCST.
- Please quote your **project reference number printed above** in all your future correspondences.
- Important:** After completing the project, 2 to 3 page write-up (synopsis) needs to be sent by e-mail [spp@kscst.iisc.emet.in] and should include following :
  - Title of the project
  - Name of the College & Department
  - Name of the students & Guide(s)
  - Keywords

Faculty Circulation  
& KSCST file  
BR  
14/3/19



- 6) Introduction / background  
(with specific reference to the project, work done earlier, etc) - about 20 lines
- 6) Objectives (about 10 lines)
- 7) Methodology (about 20 lines)  
(materials, methods, details of work carried out, including drawings, diagrams etc)
- 8) Results and Conclusions  
(about 20 lines with specific reference to work carried out)
- 9) Scope for future work (about 20 lines).

**(Note: The write-up (Synopsis) should be sent with the approval of project guide. The softcopy of the write-up, in MS Word format, should be sent by e-mail (spp@kscst.iisc.ernet.in). In your e-mail, please also include project proposal reference number and title of the project.)**

- e) Projects selected for Seminar / Exhibition will be awarded.

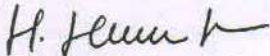
The sanctioned amount will be sent through NEFT by Accounts Department. Please furnish the bank account details as per the format enclosed with this letter.

**The sponsored projects evaluation will be held in the Nodal Centre and the details of the nodal centre will be intimated shortly by e-mail / Website announcement.**

Please visit our website for further announcements / information and for any clarifications please email to spp@kscst.iisc.ernet.in

Thanking you and with best regards,

Yours sincerely,



(H. Hemant Kumar)

Copy to:

- 1) The Head of the Department of  
Civil Engineering  
St. Josephs Engineering College,  
Vamanjoor,  
Mangaluru - 575 028.

- 2) Mr. Sachin U  
Department of Civil Engineering  
St. Josephs Engineering College,  
Vamanjoor,  
Mangaluru - 575 028.

- 3) The Finance Officer, KSCST, Bangalore

Encl: As Above



**Science and Engineering Research Board (SERB)**  
(A Statutory body under Department of Science & Technology, Government of India)

**SB/ITS-S/03040/2013-2014**

**CATEGORY- A**

Phone: 4000321(O)  
4000305(O)

5 & 5A, Lower Ground Floor  
Vasant Square Mall  
Sector-B, Pocket-5  
Vasant Kunj  
New Delhi-110070  
Dated: 14.08.2013

To,

Dr. Raju K.  
D/o Mechanical Engineering  
St. Joseph Engineering College  
Vamanjoor - 575028 (Karnataka)

**Sub.:** Financial Assistance to **Dr. Raju K.** for participating in 5th Int. Conf. on Spray Deposition and Melt Atomization to be held from 23/09/2013 to 25/09/2013 in Bremen (Germany).

Sir / Madam

We are happy to inform you that your application seeking financial grant to attend the above mentioned international scientific event has been recommended for support by the Science and Engineering Research Board (SERB). We will provide to and fro economic class air-fare by the shortest route, airport tax and visa fees. We hope this support will provide you an opportunity to interact with leading international experts in the area. The support, however, is subject to the following conditions.

1. You should not have received financial support during last three years under this scheme.
2. The air tickets are to be booked in economic class by the shortest route in a National Carrier, i.e., Air India . For Travel to station not connected by Air India, you may travel by Air India to the hub/point closest to their eventual destination, beyond which you may utilize the services of another airline which should also preferably be an alliance partner of Air India. If you are traveling by Private Airline because of non-availability of tickets or any other reason, You are requested to seek relaxation from the Ministry of Civil Aviation. The Contact details for obtaining relaxation are  
(1) Shri Dinesh Sharma  
Ministry of Civil Aviation  
Rajiv Gandhi Bhawan, New Delhi  
FAX: 24632950/2873, Tel Fax: 24651132  
(2) Shri Deepak Israni, Under Secretary  
Ministry of Civil Aviation  
Rajiv Gandhi Bhawan, New Delhi  
FAX. 24610364

You are advised to attach a copy of permission letter from Ministry of Civil Aviation for travel by private airlines while claiming the reimbursement. Without this permission letter, it will not be possible to reimburse the travel grant.

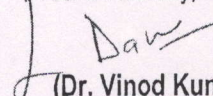
3. **E-ticket is acceptable provided the amount of the fare is clearly reflected on the ticket.**
4. You will submit tour report and other documents in the enclosed proforma within 30 days of your return to India.
5. The claim-sheet along with all documents must be **tagged/stapled properly** before sending it to the Board. Institute/University Accounts Details should be signed by the competitive Authority of the Institute/ University and Certified by Authorized Official of the Bank.
6. We will reimburse the grant after deducting the support received from any other sources, if any.
7. All other expanses such as per diem, taxi fare, bus fare etc. will not be reimbursed by the Department.
8. You have to make your own arrangements for foreign exchange required for the purpose.
9. You will not be treated as a delegate sponsored by the Government of India.
10. **The Claim sheet for the reimbursement may be downloaded from our website [www.serb.gov.in](http://www.serb.gov.in)**
11. **While claiming for reimbursement you are required to attach a certificate from Air India as a proof of shortest route taken for the journey.**

Based on this offer letter, your Institute may consider advancing necessary funds to enable you to attend the above event.

We request you to intimate to us within two weeks, if you are not availing this offer.

With kind regards,

Your's Faithfully,

  
(Dr. Vinod Kumar)  
Scientist - 'F'



**SB/ITS-S/03040/2013-2014**  
**SCIENCE & ENGINEERING RESEARCH BOARD**  
**(SERB)**

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

Dated: 23.05.14

**ORDER**

Subject: Reimbursement of travel grant for attending "5th Int. Conf. on Spray Deposition and Melt Atomization" by "Dr. Raju K., D/o Mechanical Engineering, St. Joseph Engineering College, Vamanjoor, Mangalore - 575028 (Karnataka)" held during 23/09/2013 to 25/09/2013 in Bremen (Germany).

Sanction of the **Science & Engineering Research Board (SERB)** is here by accorded to the payment of a sum of **Rs. 78,305/- (Rupees Seventy Eight Thousand Three Hundred Five Only)** for meeting the expenses incurred towards full air fare & visa fees for participating in the above International Conference.

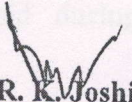
2. Sanction of the grant is subject to the condition as detailed in Terms & Conditions available at website ([www.serb.gov.in](http://www.serb.gov.in)).
3. The expenditure involved is debitable to "Fund for Science & Engineering Research (FSER)"
4. **This grant is being reimbursed under the ITS scheme**
5. The Sanction has been issued with the approval of the competent authority under delegated powers and vide Diary No. **SERB/F/ 155 /2014-15 dated 15.04.14**
6. The amount of **Rs. 78,305/- (Rupees Seventy Eight Thousand Three Hundred Five Only)** in question will be drawn by the Finance & Budget Officer of the SERB and will be disbursed by way of an a/c payee cheque favoring "The Director, St. Joseph Engineering College, Mangalore" and will be sent to "The Director, St. Joseph Engineering College, Vamanjoor, Mangalore - 575028 (Karnataka)" or by means of RTGS/NEFT transaction as per their Bank details given below:

Account Name	Director, St. Joseph Engineering College, Vamanjoor
Bank Name & Branch	Oriental Bank of Commerce, Mangalore Branch
Account No.	10792191000057
IFSC/RTGS Code	ORBC0100966

Cont...



7. It is certified that original boarding passes have been received along with air fare & visa fees documents and retained in the Board.
8. In the eventuality of any excess payment arising on account of typographical errors, etc., the excess amount should be refunded immediately to the Science and Engineering Research Board (SERB) by way of an a/c payee cheque in favour of the "Fund for Science & Engineering Research". Non-compliance would lead to the SERB initiating recovery procedures which would also attract applicable penal interest which would be decided by the SERB.
9. In case of any discrepancy you may contact **ITS Section** at **pfa-dst@nic.in**

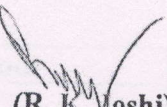
  
(R. K. Joshi)  
Scientist-D

To,

**Finance & Budget Officer**  
**SERB, New Delhi**

**Copy forwarded for information and necessary action to: -**

1.	The Principal Director of Audit, A.G.C.R. Building, III <sup>rd</sup> Floor I.P. Estate, Delhi-110002
2.	Sanction Folder, SERB, New Delhi.
3.	File Copy
4.	Dr. Raju K. D/o Mechanical Engineering St. Joseph Engineering College Vamanjoor, Mangalore - 575028 (Karnataka) <b>Email: rajuksjec@rediffmail.com</b>
5.	The Director St. Joseph Engineering College Vamanjoor, Mangalore - 575028 (Karnataka)

  
(R. K. Joshi)  
Scientist-D





# ST JOSEPH ENGINEERING COLLEGE

Affiliated to Visvesvaraya Technological University and recognised by All India Council for Technical Education

ಸಂತ ಜೋಸೆಫ್ ತಾಂತ್ರಿಕ ಮಹಾವಿದ್ಯಾಲಯ

**REF NO:** SJEC/DIR/ST/S/18/22

Date: 18/05/2018

**Ms Dayakshini**

HOD – E&C Engineering

St Joseph Engineering College

Vamanjoor – 575 028

Mangalore

*Dear Ms Dayakshini,*

**SUB: SANCTION OF BUDGET FOR THE FINANCIAL YEAR 2018-2019**

With reference to the above, I wish to inform you that, the Governing Board in its meeting held on Tuesday, the 10<sup>th</sup> of April 2018 has approved the Budget of your Department for the financial year 2018-2019.

I am also happy to inform you that the Governing Board has also sanctioned **Rs. 2,00,000/- (Rupees two lakhs only)** as **Seed Money to the Research Centre** of the Department of Electronics and Communication Engineering.

With good wishes,

Yours sincerely,

*Wm. D.*  
Fr Wilfred P. D'Souza  
Director - SJEC

Copy to: Accounts/File

\* Info to all ECE Staff

*Dan*  
22/5/18





ST JOSEPH ENGINEERING COLLEGE, MANGALURU-575028  
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING  
(UG PROGRAMME ACCREDITED BY NATIONAL BOARD OF ACCREDITATION, NEW DELHI)

Ref No: SJEC/ECE/2019/25

05.4.2019

To  
The Director  
SJEC

Through  
The Principal  
SJEC

Dear Rev. Father,

**Sub: Approval for the purchase of equipments to setup BioMedical Electronics Research Lab**

With reference to the above subject, we require to purchase following equipments to setup Biomedical Electronic Research Lab to conduct research activities in the department.

Sl.no	Equipments/Components	Price	Quantity	Total (RS.)
1	Arduino	500	4	2,000
2	Raspberry Pi 3+ With Kit	5000	4	20000
3	AD8232 ECG Sensor with ECG Cable and Electrodes( <a href="https://robokits.co.in">https://robokits.co.in</a> )	1500	2	3000
4	EMG Muscle Signal Sensor v3 with Cable and Electrodes	3500	3	10500
5	Pulse Rate Sensor	500	4	2000
6	ECG Gel Pack	500	2	1000
7	NeuroSky MindWave Mobile BrainWave Starter Kit	12000	1	12000
8	EPOC Flex Saline Sensor Kit (14 Channel)	120000	1	120000
9	Nema23 STEPPER MOTOR WITH GEARBOX 80Kgcm	7000	2	14000
10	High Torque Metal Gear Standard Digital Servo	1300	4	5200
11	Industrial Power Supply LRS-15V 10A 150W	1500	2	3000
12	Text to speech	3500	2	7000
13	NinjaFlex TPU 3D Printing Filament - 1.75mm .50kg	8000	2	16000

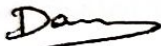


Sl.no	Equipments/Components	Price	Quantity	Total (RS.)
14	Festnight TPE 85A 1.75mm Flexible 3D Printer Filament Natural White Material Refills 1kg (2.2lbs) Spool Consumables	4500	1	4500
15	Medico Electrodes Medico Ecg Electrodes (Msglt-45) Pouch Of 50Pcs	400	2	800
16	Sony XB450AP Headphones with Microphone	2000	1	2000
17	GPIO Sound Card	3500	1	3500
18	3.5" LCD Touch Screen	2000	1	2000
19	Sony Recorder	3500	1	3500
20	Miscellaneous	20000		20000
<b>Total</b>				<b>2,52,000.00</b>

Kindly do the needful

Thanking you,

Yours sincerely,



Dr Dayakshini  
Associate Professor & HOD

Encl: Seed Money approval letter





# Karnataka State Council for Science and Technology

Indian Institute of Science Campus, Bangalore - 560 012

Telephone: 080-23341652, 23348848, 23348849 ♦ Telefax: 080-23348840

Email: office@kscst.iisc.ernet.in, office@kscst.org.in ♦ Website: www.kscst.iisc.ernet.in, www.kscst.org.in

**Dr. S. G. Sreekanteswara Swamy**  
**Executive Secretary**

23rd March, 2016

Ref: 7.1.03/SPP/ 1148

The Principal  
St. Joseph Engineering College  
Vamanjoor,  
Mangalore - 575 028.

Dear Sir,

Sub : Sanction of Student Project - 39th Series: Year 2015-2016  
Your Project Proposal Reference No. : **39S\_BE\_0178**

Ref : Your Project Proposal entitled : **SMART WATER DISTRIBUTION SYSTEM**

I am happy to inform that your project proposal referred above, has been approved by the Secretary, KSCST for "Student Project Programme - 39th Series" and has been sanctioned with a budgetary break-up as detailed below:

Students	Mr. Vignesh Althal and others	Budget	Amount (Rs)
		Materials/Consumables	4,000.00
Guide/s	Ms Rashmi H	Labor	-
		Travel	-
Department	Electronics And Communication Engineering	Miscellaneous	500.00
		Report	500.00
		<b>TOTAL</b>	<b>5,000.00</b>
Rupees	<b>FIVE</b> <b>THOUSAND</b>	<b>ZERO</b> <b>HUNDRED</b>	<b>ONLY</b>

The following are the guidelines to carryout the project work :

- The project should be performed based on the objectives of the proposal sent by you.
- The project should be completed in all respects and one copy of the hardbound report along with softcopy of the full report (including coverpages, abstract and preliminary pages) in a CD (.pdf format) should be submitted to KSCST.
- Any change in the project title and objectives, etc., or students is liable to rejection of the project and the amount sanctioned needs to be returned to KSCST.
- Please quote your **project proposal reference number printed above** in all your future correspondences.
- Important: After completing the project, 2 to 3 page write-up (synopsis) needs to be sent by e-mail [spp@kscst.iisc.ernet.in] and should include following points:
  - Title of the project
  - Name of the College & Department
  - Name of the students & Guide(s)
  - Keywords



5) Introduction / background

(with specific reference to the project, work done earlier, etc) - about 20 lines

6) Objectives (about 10 lines)

7) Methodology (about 30 lines)

(materials, methods, details of work carried out, including drawings, diagrams etc)

8) Results and Conclusions

(about 20 lines with specific reference to work carried out)

9) Scope for future work (about 20 lines).

**(Note: The write-up (Synopsis) should be sent with the approval of project guide. The softcopy of the write-up, in MS Word format, should be sent by e-mail (spp@kscst.iisc.ernet.in). In your e-mail, please also include project proposal reference number and title of the project.)**

39S\_BE\_0178

e) Projects selected for Seminar / Exhibition will be awarded.

**The following are the extract of comments / suggestions of the expert. The students and project guides are hereby directed to implement the same and will be looked into during evaluation of the project.**

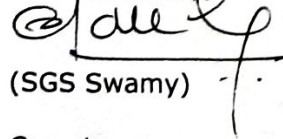
**A) PLEASE IDENTIFY YOUR COLLEGE CAMPUS AND STUDY THE DISTRIBUTION SYSTEM WITH SOURCE**

The sanctioned amount will be sent separately by our Accounts Department.

**The sponsored projects evaluation will be held in the Nodal Centre and the details of the nodal centre will be intimated shortly.**

Please visit our website for further announcements / information and for any clarifications please email to spp@kscst.iisc.ernet.in

Yours sincerely,



(SGS Swamy)

Copy to:

- 1) The Head of the Department of  
Electronics And Communication Engineering  
St. Joseph Engineering College  
Vamanjoor,  
Mangalore - 575 028.
- 2) Ms Rashmi H'  
Department of Electronics And Communication Engineering  
St. Joseph Engineering College  
Vamanjoor,  
Mangalore - 575 028.
- 3) The Finance Officer, KSCST, Bangalore





# Karnataka State Council for Science and Technology

Indian Institute of Science Campus, Bengaluru - 560 012

Telephone: 080-23341652, 23348848, 23348849 ♦ Telefax: 080-23348840

Email: office@kscst.iisc.ernet.in, office@kscst.org.in ♦ Website: www.kscst.iisc.ernet.in, www.kscst.org.in

**Dr. S. G. Sreekanteswara Swamy**  
Executive Secretary

28th March 2018

Ref: 7.1.01/SPP/08

The Principal,  
St. Josephs Engineering College,  
Vamanjoor,  
Mangaluru - 575 028.

Dear Sir,

Sub : Sanction of Student Project - 41st Series: Year 2017-2018

Your Project Proposal Reference No. : **41S\_BE\_0111**

Ref : Your Project Proposal entitled " **SOLAR GRASS CUTTER**

I am happy to inform that your project proposal referred above, has been approved by the Secretary, KSCST for "Student Project Programme - 41st Series" and has been sanctioned with a budgetary break-up as detailed below:

Student / s	Mr Prajwal Sadananda Shetty and others	Budget	Amount (Rs)
		Materials/Consumables	6,000.00
Guide/s	Mr. Franco Aldrin Menezes	Labor	-
		Travel	-
Department	Electrical And Electronics Engineering	Miscellaneous	500.00
		Report	500.00
		<b>TOTAL</b>	<b>7,000.00</b>
	<b>RUPEES SEVEN THOUSAND</b>		

The following are the guidelines to carryout the project work :

- The project should be performed based on the objectives of the proposal sent by you.
- The project should be completed in all respects and one copy of the hardbound report along with softcopy of the full report in a CD (.pdf format) should be submitted to KSCST.
- Any change in the project title and objectives, etc., or students is liable to rejection of the project and the amount sanctioned needs to be returned to KSCST.
- Please quote your **project sanction reference number printed above** in all your future correspondences.
- Important:** After completing the project, 2 to 3 page write-up (synopsis) needs to be sent by e-mail [spp@kscst.iisc.ernet.in] and should include following :

- Title of the project
- Name of the College & Department
- Name of the students & Guide(s)
- Keywords



- 6) Introduction / background  
(with specific reference to the project, work done earlier, etc) - about 20 lines
- 6) Objectives (about 10 lines)
- 7) Methodology (about 20 lines)  
(materials, methods, details of work carried out, including drawings, diagrams etc)
- 8) Results and Conclusions  
(about 20 lines with specific reference to work carried out)
- 9) Scope for future work (about 20 lines).

**(Note: The write-up (Synopsis) should be sent with the approval of project guide. The softcopy of the write-up, in MS Word format, should be sent by e-mail (spp@kscst.iisc.ernet.in). In your e-mail, please also include project proposal reference number and title of the project.)**

- e) Projects selected for Seminar / Exhibition will be awarded.

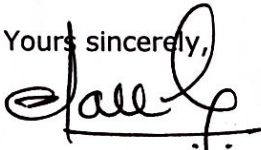
The sanctioned amount will be sent separately by our Accounts Department.

**The sponsored projects evaluation will be held in the Nodal Centre and the details of the nodal centre will be intimated shortly by e-mail / Website announcement.**

Please visit our website for further announcements / information and for any clarifications please email to spp@kscst.iisc.ernet.in

Thanking you and with best regards,

Yours sincerely,



(S.G.S. Swamy)

Copy to:

- 1) The Head of the Department of  
Electrical And Electronics Engineering  
St. Josephs Engineering College,  
Vamanjoor,  
Mangaluru - 575 028.
- 2) Mr. Franco Aldrin Menezes  
Department of Electrical And Electronics Engineering  
St. Josephs Engineering College,  
Vamanjoor,  
Mangaluru - 575 028.
- 3) The Finance Officer, KSCST, Bangalore



# SOLAR GRASS CUTTER

## GROUP MEMBERS

KIRAN RAJ D	4SO15EE406
PRAJWAL SADANANDA SHETTY	4SO15EE407
PRATHIKSHA	4SO14EE022
RAKSHITH	4SO15EE409

## PROJECT GUIDE

Mr FRANCO ALDRIN MENEZES

Assistant Professor, E&E

## ABSTRACT

Energy demand in the world is steadily increasing and new types of energy source have to be found in order to cover the future demands. One type of renewable energy source is solar energy. This project focuses on harnessing the power of Sunlight. A photoelectric device such as solar panel is used to convert the photons into electricity which is stored using battery.

The objective of this project is to design grass cutter which operates on solar energy. The purpose is to avoid energy crisis in India and reduce the human efforts, operating cost and maintenance cost. Solar based grass cutter keeps the environment clear and healthy. The whole machine operates on solar energy stored in battery. The prototype is charged from sun by using solar panel. The IC engine-based grass cutters have lot of noise pollution and require time to time maintenance.

This project consists of charging circuit, inverter circuit, and battery level indicator circuit, motor speed controller circuit. The solar panel converts solar energy directly into electricity which is stored in battery by using the charging circuit. The inverter circuit converts the DC into AC which is given to a step-up transformer. The voltage across secondary is 230V which is used to power the motor. The battery indicator circuit indicates the status of the battery with the help of LEDs. Arduino is programmed for battery level indicator circuit. Universal motor is used, which can work with both AC and DC. The blades are attached to the universal motor which cuts the grass. Speed control of motor is achieved by motor speed controller circuit.



This method of harnessing solar energy is reliable and well suited for Indian weather conditions. Hence in conclusion solar energy has less pollution and low maintenance cost than IC engine.

The future scope of this project involves improving the efficiency of the system using maximum power point tracking (MPPT) and higher-powered panels.







# Karnataka Science and Technology Promotion Society (KSTePS)

Dept. of Information Technology, Bio Technology and Science & Technology, GoK

"Vijnana Bhavana", 3<sup>rd</sup> Floor, #24/2, 21<sup>st</sup> Main Road, Banashankari 2<sup>nd</sup> Stage, Bangalore-70

Ph/fax : 080-26711166, E-mail : ksteps.dst@gmail.com

**Dr. H. Honne Gowda**  
**Special Director (Technical),**  
**Dept. of IT, BT and S&T/**  
**Managing Director, KSTePS**

No. KSTePS/VGST-KFIST (L1)/2017

Date: 21.11.2017

Dear Sir,

Sub.: Intimation of selection of the project under the VGST scheme of KFIST  
Level (1) – reg.

**Greetings from the Dept. of Information Technology, Biotechnology and  
Science & Technology!!**

We are pleased to inform you that the project titled "**Synthesis, structural and electro chemical studies of some Nitrogen and Sulphur containing potential pharmaceutical heterocyclic derivatives**" submitted under the VGST scheme of KFIST Level (1) for the financial year 2016-'17 has been approved by the Government based on the recommendations of Vision Group on Science and Technology under the Chairmanship of Prof. CNR Rao, Honorary President, JNCASR.

The total project grant award for a period of 2 years is Rs. 20.00 lakhs, which will be released annually @ Rs. 10.00 lakhs based on the progress of work. Your requested to take an immediate action to initiate the project at the earliest and to be completed within 2 years after receiving the cheque of 1<sup>st</sup> installment from our office.

The grant will be paid to the Head of the Institution, under whose supervision the Principal Investigator shall be responsible for completion of the stated objectives of the project. The Principal Investigator through the Institution Head shall have to submit the progress report in soft copy (word & pdf) once in 6 months without any fail. The grants shall be used only for the purposes described in the grant application by following due procedures of KTPP Act. Any deviation from the scheduled plan must have a prior approval from the VGST. A sample copy of the Utilization Certificate is enclosed for information and necessary action in the future.

Future releases of grants will be based on satisfactory project performance. The funding agency has the right to terminate the project, if it is found to be not

--2

copy to  
The Director, Dept. Director  
The V.T. ce  
at  
28/11/17



satisfactorily pursuing and fulfilling the stated project goals and objectives. Any unspent balance must be returned back to the funding agency within 60 days following the conclusion of the project. Any publications or other dissemination arising from research supported by VGST grants should be acknowledged.

Dr. S. G. Sreekanteswara Swamy, Consultant, VGST will be the nodal officer for all future correspondences related to the project. His contact details are given below:

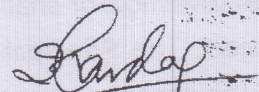
Vision Group on Science and Technology  
Dept. of IT, BT and S&T, Karnafaka Government Secretariat,  
Room No. 702, 7<sup>th</sup> Floor, 4<sup>th</sup> Gate,  
M.S. Building, Dr. Ambedkar Veedhi,  
Bangalore – 560001.

Phone : 080-2203 2013  
Email : [visiongroup.st@gmail.com](mailto:visiongroup.st@gmail.com)  
Website : [www.vgst.in](http://www.vgst.in)

I want to personally thank you for being selected as one of the VGST program members and we wish you and the Principal Investigator a great success in the implementation of the project.

Thanking you

Yours sincerely,

  
(H. Honne Gowda)

To,  
The Principal  
St. Joseph Engineering College  
SJEC Main Rd, Near St. Joseph Workers Church,  
Vamanjoor, Mangaluru, Karnataka 575028

CC:

Dr. K Jyothi, Program Coordinator, Dept. of Chemistry, St. Joseph Engineering College, SJEC Main Rd, Near St. Joseph Workers Church, Vamanjoor, Mangaluru, Karnataka 575028.



**MEMORANDUM OF UNDERSTANDING**

**(MoU)**

**BETWEEN**

**WOLFRAM THURM, BAUHAUS UNIVERSITÄT  
WEIMAR, DRESDEN, GERMANY.**

**MYRIAM SHANKAR, THE ANONYMOUS INDIAN  
CHARITABLE TRUST (TAICT), BANGALORE.**

**AND**

**DEPARTMENT OF MECHANICAL ENGINEERING**

**ST JOSEPH ENGINEERING COLLEGE**

**MANGALORE-575028, KARNATAKA.**



## 2. INTRODUCTION

Wolfram Thurm, student of the Bauhaus University in Weimar, Germany in association with The Anonymous Indian Charitable Trust (TAICT) are hereby approaching the Department of Mechanical Engineering, St Joseph Engineering College, Mangalore in hope of forming a meaningful partnership in the execution of a project.

As a student of this Institute I am committed to the core values of sustainability and benefit to the society. My main focus in this project lies on combining all the various angles of a problem. No problem should be looked at in isolation and hence I am aiming at a universal design concept that is beneficial to society at a cultural, social, emotional, economical and environmental level.

As a designer I believe in real world solutions for real world problems. Having said that we all have to realise that we cannot solve problems of the 21<sup>st</sup> century with the tools of the 20<sup>th</sup> century. In this spirit I believe in the power of collaboration and an open and mutual support between all stakeholders.

The trust (TAICT) supports those citizens, who they believe are doing a sincere and honest service to society, while the trust stays in the background.

TAICT is an incubator and powerhouse for good ideas that create social change.

TAICT believes that collective action, with the right resources and leadership, can achieve great heights. It seeks to enable and empower individuals to improve the lives of Indian citizens by offering strategic, financial and legal support while maintaining a discreet profile.

We are focussed on **Environment, Governance and Livelihood** as a means to improve the everyday lives of citizens.

Department of Mechanical Engineering, St Joseph Engineering College (SJEC), Mangalore, is affiliated to Visvesvaraya Technological University (VTU), Belgaum, Karnataka, is recognised by the All India Council for Technical Education (AICTE), New Delhi, and the department is Accredited by National Board of Accreditation (NBA), New Delhi.

Mr Noel Deepak Shiri, Assistant Professor, Department of Mechanical Engineering, SJEC has experience and worked in developing the award winning project titled "DESIGN AND FABRICATION OF AN EXTRUDER FOR PROCESSING WASTE PLASTIC INTO BUILDING MATERIALS". This project was developed along with his mechanical engineering students of year 2015 batch named Mr P Varun Kajava, Mr Nikhil Lloyd Pais, Mr Ranjan H V, Mr Vikhyat M Naik. Together they have developed this above mentioned project and have studied the different material properties of the Brick samples developed using the extruder machine for different compositions of materials like Waste Plastics, Rubber Powder, Calcium Carbonate and Flyash etc for the application as building materials.



- e. The outcome of this project is above all dedicated to the benefit of society and not to the exclusive benefit of an individual
- f. The funding of the project is extendable (subject to prior approval) and is intended for material cost, transportation, outsourced labor and other costs, excluding the payment of any immediate stakeholder
- g. Only waste material shall be used that has no use in the current waste scenario, hence no material shall be added that would encourage the production of virgin plastics or any other form of production that is harmful to our planet – The main objective lies in making use of currently unusable/unrecyclable waste.
- h. The work in progress shall be communicated on a high touch base.
- i. A name tag "**Designed & Developed by SJEC, Mangaluru**", shall be placed on all the machines manufactured in future using this design and technical knowhow used for further manufacturing of any machines anywhere else in India.
- j. In future any number of such machinery / equipment which shall be produced anywhere else in India with this design and method must be informed / communicated to SJEC.
- k. Once the project is completed, any future communications with respect to this project work/machinery or with the people involved in this project i.e project students or any other individuals etc regarding this project shall be brought to the information of the project guide and project coordinator and also the management of SJEC.
- l. SJEC may publish the research findings in Journals / Conferences.

In this context, SJEC has agreed to take up the work to design and develop two projects as under the MoU entitled,

**PROJECT 1 :-**

**“Design and Fabrication of Washing and Shredding Machine for processing of Commingled Waste Plastics”**

**PROJECT 2 :-**

**“Design and Development of a Two stage Extruder-Injection Moulding machine for manufacturing of Plastic Lumber using Commingled Waste Plastics ”**



## 9. BUDGET

The total budget for the project is **Rs. 5 Lakh.**

The budget is bound on the following conditions

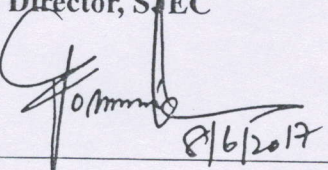
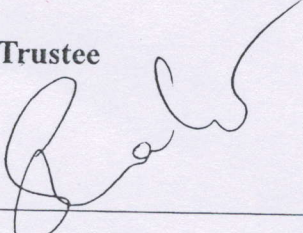
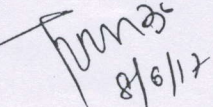
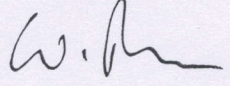
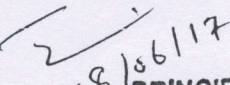
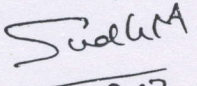
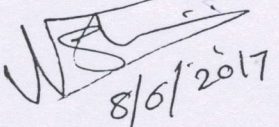
1. Successful completion of Goal 1
2. The cost for the material and transportation and other requirements to achieve Goal 1 will be barred by Wolfram Thurm and TAICT
3. Correct billing has to maintained at all time
4. No kick backs and any other form of corruption should be supported with the money

Once the project has started Wolfram Thurm and TAICT are open to increase the funding, if they are strong reasons to do so. This though, will always be object to the prior approval by the donator. The budget is intended to pay for material, outsourced labor and transportation as well as for miscellaneous things. It is not intended for any kind of salary for any of the immediate stakeholders.

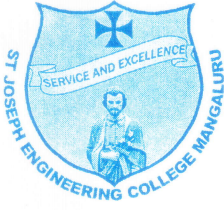


This MoU will be effective from the date of signing till the end of the project work. MoU can be extended by written agreement of both the parties.

Signed on this day of 8<sup>th</sup> June, 2017.

For St Joseph Engineering College, Mangalore (SJEC)	For The Anonymous Indian Charitable Trust (TAICT)
Name: Rev. Fr Joseph Lobo Designation: Director, SJEC Signature:  8/6/2017	Name: Ms Myriam Shankar Designation: Trustee Signature: 
Name: Rev. Fr Wilfred Prakash D'Souza Designation: Designate Director, SJEC Signature:  8/6/17	Name: Mr Wolfram Thurm Designation: Project Coordinator Signature: 
Name: Dr Joseph Gonsalvis Designation: Principal, SJEC Signature:  08/06/17 PRINCIPAL ST. JOSEPH ENGINEERING COLLEGE VAMANJOOR, MANGALORE - 576 028. KARNATAKA, INDIA.	
Name: Dr Sudheer M Designation: H.O.D Mechanical Dept, SJEC Signature:  8.6.17	
Name: Mr Noel Deepak Shiri Designation: Project Coordinator, SJEC Signature:  8/6/2017	





# ST JOSEPH ENGINEERING COLLEGE

Affiliated to Visvesvaraya Technological University and recognised by All India Council for Technical Education

ಸಂತ ಜೋಸೆಫ್ ತಾಂತ್ರಿಕ ಮಹಾವಿದ್ಯಾಲಯ

Ref No: SJEC/DIR/B/2018/052

Date: 07/12/2018

**Dr Jyothi**  
Professor & HOD  
Department of Chemistry  
St Joseph Engineering College  
Vamanjoor, Mangalore -575 028

*Dear Madam,*


## **SUB.: YOUR REQUEST FOR THE GRANT OF SEED MONEY**

The Management of SJEC is happy to inform you that your request for seed money to the project proposal submitted by you, titled "**Theoretical study of chemical structure and property of bio-active molecules**" is approved for financial support of Rs 76,000/-.

You are required to present the progress achieved once in every six months from the date of sanction of seed money, until the successful completion of the research work along with bringing-out a few valuable publications related to the work carried out. You are required to abide by the guidelines as described by the policy for the award of Seed Money for carrying out research.

With good wishes,

Yours sincerely,

  
**Fr Wilfred P. D'Souza**  
Director - SJEC

Copy to: Asst. Director/ Principal/ Chief R&D/ HRM &/Accounts/File





# ST JOSEPH ENGINEERING COLLEGE

Affiliated to Visvesvaraya Technological University and recognised by All India Council for Technical Education

ಸಂತ ಜೋಸೆಫ್ ತಾಂತ್ರಿಕ ಮಹಾವಿದ್ಯಾಲಯ

REF NO: SJEC/DIR/ST/S/17/4

Date: 30/06/2017

Dr Rio D'Souza  
Vice-Principal & HOD – CSE  
St Joseph Engineering College  
Vamanjoor – 575 028  
Mangalore

Dear Dr D'Souza,

**SUB: SANCTION OF BUDGET FOR THE FINANCIAL YEAR 2017-2018**

With reference to the above, I wish to inform you that, the Governing Board in its meeting held on Monday, 19<sup>th</sup> June 2017 has approved the Budget of your Department for the financial year 2017-2018.

I am also happy to inform you that the Governing Board has also sanctioned Rs. 2,00,000/- (Rupees two lakhs only) as Seed Money to the Research Centre of the Department of Computer Science and Engineering.

With good wishes,

Yours sincerely,

*Fr Wilfred P. D'Souza*  
Fr Wilfred P. D'Souza  
Director - SJEC

Copy to: Accounts/File

- Budget file

*26/7/17*



Ph : 2426126  
Ph : 2423626

GSTIN : 29AAEFM3327J1Z5

## MANOHAR RADIO HOUSE

Maidan 1st Cross Road,

MANGALORE - 575 001

To : ST JOSEPH ENGG COLLEGE

GST INVOICE  
CASH

Bill No. 4,971

Date : 27-Mar-2018 12:00 AM

GSTIN:

Sl #	Item Name	HSN/ACS	MRP	QTY	Rate	GST %	GST Amt	Amount
1	MODULE NODE MCU	85423100	375.00	20	375.00	18.00	67.50	7,500.00
2	MODULE O LED DISPLAY	85423100	330.00	15	330.00	18.00	59.40	4,950.00
3	MODULE RP3/MSD/PS	85423100	3,450.00	15	3,450.00	18.00	621.00	51,750.00
4	MODULE GSM	85423100	900.00	3	900.00	18.00	162.00	2,700.00
5	MODULE PIR SENSOR	85423100	90.00	20	90.00	18.00	16.20	1,800.00
6	MODULE FLEX SENSOR	85423100	375.00	10	375.00	18.00	67.50	3,750.00
7	MODULE ACCMTR/MPU6050	85423100	250.00	20	250.00	18.00	45.00	5,000.00
8	MODULE GPSNEO6M	85423100	800.00	5	800.00	18.00	144.00	4,000.00
9	MODULE USBTTL/CPC2102	85423100	135.00	5	135.00	18.00	24.30	675.00
10	MODULE 2CH/OC	85423100	100.00	10	100.00	18.00	18.00	1,000.00
11	JUMPER WIRES 14 SETSOF40	8544	60.00	14	60.00	18.00	10.80	840.00
12	BREAD BOARD		65.00	10	65.00	18.00	11.70	650.00
13	MODULE PI CAMERA	85423100	700.00	5	700.00	18.00	126.00	3,500.00
14	CHASIS 4WHEEL		140.00	5	140.00	18.00	25.20	700.00
15	POTENTIOMETRE 1/5/10/100K	8533	10.00	80	10.00	18.00	1.80	800.00
16	LED IR/PHT DIODE	8541	7.00	5	7.00	18.00	1.26	35.00
17	MODULE ESP8266	85423100	250.00	10	250.00	18.00	45.00	2,500.00

Verified  
Components purchased through  
Seed money sanctioned  
for Research.  
Sul

Acc No: 204.  
Stock Book Pg No: 72-73

Total.....				252	92,150.00
Type	Goods Value	S GST %	C GST %	S GST	8,293.50
				C GST	8,293.50
18%	92150.00	8293.50	8293.50	I GST	0.00
				Cooly	0.00
				Round Off	0.00
				Net Amount	108,737.00

Rupees : One Hundred Eight Thousand Seven Hundred Thirty-Seven Only

Thank You Visit Again

For MANOHAR RADIO HOUSE





# Karnataka State Council for Science and Technology

Indian Institute of Science Campus, Bengaluru - 560 012

Telephone: 080-23341652, 23348848, 23348849 ♦ Telefax: 080-23348840

Email: office@kscst.iisc.ernet.in, office@kscst.org.in ♦ Website: www.kscst.iisc.ernet.in, www.kscst.org.in

**Dr. S. G. Sreekanteswara Swamy**  
Executive Secretary

28th March, 2018

Ref: 7.1.01/SPP/08

The Principal,  
St. Josephs Engineering College,  
Vamanjoor,  
Mangaluru - 575 028.

Dear Sir,

Sub : Sanction of Student Project - 41st Series: Year 2017-2018

Your Project Proposal Reference No. : 41S\_BE\_1524

Ref : Your Project Proposal entitled " **VIRTUAL MIRROR- A HASSLE APPROACH FREE TO THE USE OF TRIAL ROOM**

I am happy to inform that your project proposal referred above, has been approved by the Secretary, KSCST for "Student Project Programme - 41st Series" and has been sanctioned with a budgetary break-up as detailed below:

Students	Mr. Ranjith Kumar B and others	Budget	Amount (Rs)
		Materials/Consumables	5,000.00
Guide/s	Mrs. Nisha Jenifer Roche	Labor	-
		Travel	-
Department	Computer Science And Engineering	Miscellaneous	500.00
		Report	500.00
		<b>TOTAL</b>	<b>6,000.00</b>
<b>RUPEES RUPEES SIX THOUSAND</b>			

The following are the guidelines to carryout the project work :

- The project should be performed based on the objectives of the proposal sent by you.
- The project should be completed in all respects and one copy of the hardbound report along with softcopy of the full report in a CD (.pdf format) should be submitted to KSCST.
- Any change in the project title and objectives, etc., or students is liable to rejection of the project and the amount sanctioned needs to be returned to KSCST.
- Please quote your **project sanction reference number printed above** in all your future correspondences.
- Important: After completing the project, 2 to 3 page write-up (synopsis) needs to be sent by e-mail [spp@kscst.iisc.ernet.in] and should include following points:
  - Title of the project
  - Name of the College & Department
  - Name of the students & Guide(s)
  - Keywords



## 5) Introduction / background

(with specific reference to the project, work done earlier, etc) - about 20 lines

## 6) Objectives (about 10 lines)

## 7) Methodology (about 20 lines)

(materials, methods, details of work carried out, including drawings, diagrams etc)

## 8) Results and Conclusions

(about 20 lines with specific reference to work carried out)

## 9) Scope for future work (about 20 lines).

**(Note: The write-up (Synopsis) should be sent with the approval of project guide. The softcopy of the write-up, in MS Word format, should be sent by e-mail (spp@kscst.iisc.ernet.in). In your e-mail, please also include project proposal reference number and title of the project.)**

e) Projects selected for Seminar / Exhibition will be awarded.

**The following are the extract of comments / suggestions of the expert. The students and project guides are hereby directed to implement the same and will be looked into during evaluation of the project.**

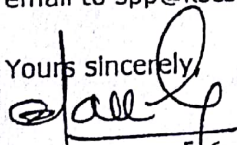
*DISPLAY OTHER ADVANTAGES OF THE MIRROR. EXPLAIN THE PRINCIPLE OF OPERATION CLEARLY.*

The sanctioned amount will be sent separately by our Accounts Department.

**The sponsored projects evaluation will be held in the Nodal Centre and the details of the nodal centre will be intimated shortly by email / Website announcement.**

Please visit our website for further announcements / information and for any clarifications please email to spp@kscst.iisc.ernet.in

Yours sincerely,



(S.G.S. Swamy)

Copy to:

- 1) The Head of the Department of  
Computer Science And Engineering  
St. Josephs Engineering College,  
Vamanjoor,  
Mangaluru - 575 028.

2) Mrs. Nisha Jenifer Roche  
Department of Computer Science And Engineering  
St. Josephs Engineering College,  
Vamanjoor,  
Mangaluru - 575 028.

- 3) The Finance Officer, KSCST, Bengaluru





**Karnataka Science and Technology Promotion Society**  
Dept. of Information Technology, Bio Technology and Science & Technology, GoK  
"Vijnana Bhavan", 3<sup>rd</sup> Floor, #24/2, 21<sup>st</sup> Main Road, Banashankari 2<sup>nd</sup> Stage, Bangalore-70  
Ph/fax : 080-26711166, E-mail : ksteps.dst@gmail.com

Dr. H. Honne Gowda  
Special Director (Technical),  
Dept. of IT, BT and S&T/ Managing director, KSTePS

No. KSTePS/VGST-RGS/F/GRD No.693/2017-18

Date: 27.08.2018

Dear Sir/Madam,

**Sub:** Intimation of selection of RGS/F under the VGST scheme -reg.

**Greetings from KSTePS, Dept. of Information Technology, Biotechnology and Science and Technology!!**

We are pleased to inform you that the RGS/F Engineering program titled "**Hybrid Approaches for Acquisition and Augmentation of Translation Tables for Indian Languages**" submitted under the VGST scheme for the Financial Year 2017-18 has been approved by the Government based on the recommendations of Vision Group on Science and Technology under the Chairmanship of Prof. CNR Rao, Honorary President, JNCASR. You may kindly initiate necessary action for organization of the program at the earliest.

**Please provide the cheque in favour address of your Institution, for releasing the sanctioned grants.**

I want to personally thank you for being selected as one of the VGST program members and we wish you a great success in organization of the program.

Thanking You,

Yours sincerely,

**Managing Director**

**To,**  
The Principal  
St. Joseph Engineering College  
Vamanjoor, Mangaluru - 575 028

**CC:** 1. Dr. Kavitha K Mahesh, Dept. of MCA, St. Joseph Engineering College, Vamanjoor  
Mangaluru - 575 028 - RGS/F Grantee.

2. Consultant, Vision Group on Science and Technology, KSTePS, Dept. of IT, BT and S&T, Karnataka Government Secretariat, Room No. 702, 7th Floor, 4th Gate, M. S. Building, Dr. Ambedkar Veedhi Bangalore- 560 001.





# ಕರ್ನಾಟಕ ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ಪ್ರೋತ್ಸಾಹಕ ಸೊಸೈಟಿ

ಮಾಹಿತಿ ತಂತ್ರಜ್ಞಾನ, ಜೈವಿಕ ತಂತ್ರಜ್ಞಾನ ಹಾಗೂ ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ಇಲಾಖೆ, ಕರ್ನಾಟಕ ಸರ್ಕಾರ  
'ವಿಜ್ಞಾನ ಭವನ' ನಂ: 24/2, 3ನೇ ಮಹಡಿ, 21ನೇ ಮುಖ್ಯ ರಸ್ತೆ, ಬನಶಂಕರಿ 2ನೇ ಹಂತ, ಬೆಂಗಳೂರು-560 070  
ದೂರವಾಣಿ/ಫ್ಯಾಕ್ಸ್: 080-26711166 /26711160 ಇ-ಮೇಲ್: ksteps.dst@gmail.com

ಡಾ. ಹೆಚ್. ಹೊನ್ನೇಗೌಡ

ವ್ಯವಸ್ಥಾಪಕ ನಿರ್ದೇಶಕರು, ಕೆಸ್‌ಟೆಪ್ಸ್

ನಂ. KSTePS/VGST/RGS/F/2017-18/GRD-693/54/2018-19

ದಿನಾಂಕ: 15.09.2018

ಮಾನ್ಯರೇ,

ವಿಷಯ: 2017-18ನೇ ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ದಾರ್ಶನಿಕ ಸಮೂಹದ RGS/F ಯೋಜನೆಯಡಿಯಲ್ಲಿ  
ಅನುದಾನ ಬಿಡುಗಡೆ ಮಾಡುವುದರ ಬಗ್ಗೆ.

ಉಲ್ಲೇಖ: 1) ಸರ್ಕಾರಿ ಆದೇಶ ಸಂಖ್ಯೆ: ವಿಯಇ 154 ವಿತ್ತಮ 2018(ಭಾಗ-2), ದಿ: 18.08.2018

2)ಕಛೇರಿ ಪತ್ರ ಸಂಖ್ಯೆ: No. KSTePS/VGST-RGS/F/GRD No.693/2017-18/157, Date: 27.08.2018

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ಮೇಲ್ಕಂಡ ವಿಷಯ ಮತ್ತು ಉಲ್ಲೇಖಗಳಿಗೆ ಸಂಬಂಧಿಸಿದಂತೆ, 2017-18ನೇ ಸಾಲಿನಲ್ಲಿ ತಮ್ಮ ಸಂಸ್ಥೆಯಿಂದ ಸಲ್ಲಿಸಿದ ಪ್ರಸ್ತಾವನೆಯಾದ "Hybrid Approaches for Acquisition and Augmentation of Translation Tables for Indian Languages"ನ್ನು ವಿತಂದಾಸದ ಪ್ರಮುಖ ಕಾರ್ಯಕ್ರಮವಾದ Research Grant for Scientist/Faculties (RGS/F) ನ ಯೋಜನೆಯಡಿಯಲ್ಲಿ ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ದಾರ್ಶನಿಕ ಸಮೂಹವು ಆಯ್ಕೆ ಮಾಡಿದ್ದು, ಅದರಂತೆ ಆದೇಶ ನೀಡಿರುವುದು ಸರಿಯಷ್ಟೆ.

ಈ ಸಂಬಂಧ, ವಿತಂದಾಸದ RGS/F ಯೋಜನೆಯಡಿ ಆಯ್ಕೆಯಾದ ತಮ್ಮ ಸಂಸ್ಥೆಗೆ ರೂ. 5.00 ಲಕ್ಷಗಳ ಅನುದಾನವನ್ನು ಬಿಡುಗಡೆ ಮಾಡಲು ದಿನಾಂಕ: 15.09.2018 ರಂದು **St. Joseph Engineering College** ಹೆಸರಿನಲ್ಲಿ ಚೆಕ್ (ಸಂ. 384913) ಬರೆದು, ಸದರಿ ಚೆಕ್‌ನ್ನು ಈ ಪತ್ರದೊಂದಿಗೆ ಲಗತ್ತಿಸಿ ಕಳುಹಿಸಿಕೊಡಲಾಗಿದೆ. ಮುಂದುವರಿದು, ಚೆಕ್ ಸ್ವೀಕರಿಸಿದ ನಂತರ ಸ್ವೀಕೃತಿ ರಶೀದಿ (Acknowledgement) ಯನ್ನು ಕೆಸ್‌ಟೆಪ್ಸ್‌ಗೆ ಕಳುಹಿಸುವುದು ಹಾಗೂ ಸದರಿ ಅನುದಾನವನ್ನು ಯಾವುದಾದರೂ ರಾಷ್ಟ್ರೀಕೃತ ಬ್ಯಾಂಕ್‌ಗಳಲ್ಲಿ ಉಳಿತಾಯ ಖಾತೆಯಲ್ಲಿಟ್ಟು (Saving Bank Account) ಅಗತ್ಯಕನುಗಣವಾಗಿ ಅನುದಾನವನ್ನು ಬಳಸುವಂತೆ ಕೋರಲಾಗಿದೆ.

ಸದರಿ ಅನುದಾನವನ್ನು ಉದ್ದೇಶಿತ ಯೋಜನೆಗೆ ಮಾತ್ರ ಬಳಸಿಕೊಳ್ಳುವುದು ಹಾಗೂ ಎಲ್ಲಾ ವೆಚ್ಚಗಳನ್ನು ಕರ್ನಾಟಕ ಸಾರ್ವಜನಿಕ ಸಂಗ್ರಹಣೆಯಲ್ಲಿ ಪಾರದರ್ಶಕತೆ ಅಧಿನಿಯಮ, 1999ರ (Karnataka Transparency in Public Procurements Act, 1999 - <http://finance.kar.nic.in/index.htm>) ಅನುಸಾರ ಹಾಗೂ ದಾರ್ಶನಿಕ ಸಮೂಹ ಅನುಮೋದಿಸಿರುವ ವಿವಿಧ ಶೀರ್ಷಿಕೆಗಳಿಗೆ ಅನುಗುಣವಾಗಿ ಯೋಜನೆಯನ್ನು ಅನುಷ್ಠಾನಗೊಳಿಸುವುದು.



ಮುಂದುವರಿದು, ಚಿಡುಗಡೆಯಾದ ಅನುದಾನವನ್ನು ಬಳಸಿಕೊಂಡ ನಂತರ ಎಲ್ಲಾ ವೆಚ್ಚಗಳನ್ನು ನೋಂದಾಯಿತ ಲೆಕ್ಕ ಪರಿಶೋಧಕರಿಂದ ಆಡಿಟ್ ಮಾಡಿಸಿ, ಈ ಪತ್ರದೊಂದಿಗೆ ಲಗತ್ತಿಸಿರುವ ನಮೂನೆಯಲ್ಲಿ (Format) ದೃಢೀಕರಿಸಿದ ಖರ್ಚು ವೆಚ್ಚಗಳನ್ನೊಳಗೊಂಡ ಉಪಯೋಗತಾ ಪ್ರಮಾಣಪತ್ರವನ್ನು ದ್ವಿಪ್ರತಿಯಲ್ಲಿ ಕೆಸ್ಲೆಪ್ ಸಂಸ್ಥೆಗೆ ಕಳುಹಿಸಿಕೊಡುವುದು. ಸದರಿ ಯೋಜನೆಗೆ ಸಂಬಂಧಪಟ್ಟ ಎಲ್ಲಾ ಲೆಕ್ಕ ಪತ್ರಗಳನ್ನು ಸಂರಕ್ಷಿಸಿಡುವುದು ಹಾಗೂ ಮಹಾಲೇಖಪಾಲಕರು ಮತ್ತು ಸರ್ಕಾರವು ತಪಾಸಣೆಗಾಗಿ ಕೋರಿದಲ್ಲಿ ತಪ್ಪದೇ ಒದಗಿಸುವುದು. ಈ ಯೋಜನೆಗೆ ಸಂಬಂಧಿಸಿದಂತೆ ಪ್ರತ್ಯೇಕ ದಾಖಲೆ ಪುಸ್ತಕವನ್ನು ಸಹ ನಿರ್ವಹಿಸಬೇಕೆಂದು ಕೋರುತ್ತೇನೆ.

ಹೆಚ್ಚಿನ ಮಾಹಿತಿಗಾಗಿ ಡಾ|| ಎಸ್. ಜಿ. ಶ್ರೀಕಂಠೇಶ್ವರ ಸ್ವಾಮಿ, ಸಮಾಲೋಚಕರು, ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ದಾರ್ಶನಿಕ ಸಮೂಹ ಇವರನ್ನು ಸಂಪರ್ಕಿಸಬಹುದು. ದೂರವಾಣಿ ಸಂಖ್ಯೆ 080- 22032013  
ಇ-ಮೇಲ್: [visiongroup.st@gmail.com](mailto:visiongroup.st@gmail.com)

ಪಂದನೆಗಳೊಂದಿಗೆ,

ತಮ್ಮ ವಿಶ್ವಾಸಿ,



ವ್ಯವಸ್ಥಾಪಕ ನಿರ್ದೇಶಕರು

ಇವರಿಗೆ,

Principal

St. Joseph Engineering College

Vamanjoor, Mangaluru - 575 028

ಪ್ರತಿ: 1) Dr. Kavitha K Mahesh, Dept. of MCA, St. Joseph Engineering College, Vamanjoor  
Mangaluru - 575 028.

2) ಡಾ|| ಎಸ್. ಜಿ. ಶ್ರೀಕಂಠೇಶ್ವರ ಸ್ವಾಮಿ, ಸಮಾಲೋಚಕರು, ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ದಾರ್ಶನಿಕ ಸಮೂಹ, 7ನೇ ಮಹಡಿ, 4ನೇ ಹಂತ, ಬಹುಮಹಡಿ ಕಟ್ಟಡ, ಬೆಂಗಳೂರು- 560 001





# Karnataka State Council for Science and Technology

Indian Institute of Science Campus, Bengaluru - 560 012

Telephone: 080-23341652, 23348848, 23348849 ♦ Telefax: 080-23348840

Email: office@kscst.iisc.ernet.in, office@kscst.org.in ♦ Website: www.kscst.iisc.ernet.in, www.kscst.org.in

**Dr. S. G. Sreekanteswara Swamy**  
Executive Secretary

28th March, 2018

Ref: 7.1.01/SPP/08

The Principal,  
St. Josephs Engineering College,  
Vamanjoor,  
Mangaluru - 575 028.

Dear Sir,

Sub : Sanction of Student Project - 41st Series: Year 2017-2018

Your Project Proposal Reference No. : **41S\_BE\_1518**

Ref : Your Project Proposal entitled " **A LOW COST POCT MODEL FOR ECG MONITORING**

I am happy to inform that your project proposal referred above, has been approved by the Secretary, KSCST for "Student Project Programme - 41st Series" and has been sanctioned with a budgetary break-up as detailed below:

Students	Mr. Daniel Johnston D Silva and others	Budget	Amount (Rs)
		Materials/Consumables	5,000.00
Guide/s	Ms. Sandhya Dass	Labor	-
		Travel	-
Department	Electronics And Communication Engineering	Miscellaneous	500.00
		Report	500.00
		<b>TOTAL</b>	<b>6,000.00</b>
<b>RUPEES RUPEES SIX THOUSAND</b>			

The following are the guidelines to carryout the project work :

- The project should be performed based on the objectives of the proposal sent by you.
- The project should be completed in all respects and one copy of the hardbound report along with softcopy of the full report in a CD (.pdf format) should be submitted to KSCST.
- Any change in the project title and objectives, etc., or students is liable to rejection of the project and the amount sanctioned needs to be returned to KSCST.
- Please quote your **project sanction reference number printed above** in all your future correspondences.
- Important: After completing the project, 2 to 3 page write-up (synopsis) needs to be sent by e-mail [spp@kscst.iisc.ernet.in] and should include following points:
  - Title of the project
  - Name of the College & Department
  - Name of the students & Guide(s)
  - Keywords

\* Dept File  
Dan  
26/04/18



- 5) Introduction / background  
(with specific reference to the project, work done earlier, etc) - about 20 lines
- 6) Objectives (about 10 lines)
- 7) Methodology (about 20 lines)  
(materials, methods, details of work carried out, including drawings, diagrams etc)
- 8) Results and Conclusions  
(about 20 lines with specific reference to work carried out)
- 9) Scope for future work (about 20 lines).

**(Note: The write-up (Synopsis) should be sent with the approval of project guide. The softcopy of the write-up, in MS Word format, should be sent by e-mail (spp@kscst.iisc.ernet.in). In your e-mail, please also include project proposal reference number and title of the project.)**

e) Projects selected for Seminar / Exhibition will be awarded.

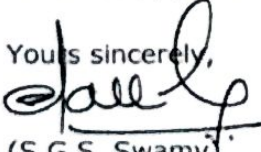
**The following are the extract of comments / suggestions of the expert. The students and project guides are hereby directed to implement the same and will be looked into during evaluation of the project.**

*FINAL PRODUCT SHOULD BE DEMONSTRATED*

The sanctioned amount will be sent separately by our Accounts Department.

**The sponsored projects evaluation will be held in the Nodal Centre and the details of the nodal centre will be intimated shortly by email / Website announcement.**

Please visit our website for further announcements / information and for any clarifications please email to spp@kscst.iisc.ernet.in

Yours sincerely,  
  
 (S.G.S. Swamy)

Copy to:

- 1) The Head of the Department of  
Electronics And Communication Engineering  
St. Josephs Engineering College,  
Vamanjoor,  
Mangaluru - 575 028.
- 2) Ms. Sandhya Dass  
Department of Electronics And Communication Engineering  
St. Josephs Engineering College,  
Vamanjoor,  
Mangaluru - 575 028.
- 3) The Finance Officer, KSCST, Bengaluru





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**Dr. S. G. Sreekanteswara Swamy**  
Executive Secretary

28th March 2018

Ref: 7.1.01/SPP/08

The Principal,  
St. Josephs Engineering College,  
Vamanjoor,  
Mangaluru - 575 028.

Dear Sir,

Sub : Sanction of Student Project - 41st Series: Year 2017-2018  
Your Project Proposal Reference No. : 41S\_BE\_2664

Ref : Your Project Proposal entitled " **AUTOMATED UNION OVER TOUCH ENABLED SYSTEM (AUTES)**

I am happy to inform that your project proposal referred above, has been approved by the Secretary, KSCST for "Student Project Programme - 41st Series" and has been sanctioned with a budgetary break-up as detailed below:

Student / s	Mr. David John Saldanha and others	Budget	Amount (Rs)
		Materials/Consumables	6,000.00
Guide/s	Mr. Gandhimathinathan	Labor	-
		Travel	-
Department	Electronics And Communication Engineering	Miscellaneous	500.00
		Report	500.00
		<b>TOTAL</b>	<b>7,000.00</b>
<b>RUPEES SEVEN THOUSAND</b>			

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- Please quote your **project sanction reference number printed above** in all your future correspondences.
- Important:** After completing the project, 2 to 3 page write-up (synopsis) needs to be sent by e-mail [spp@kscst.iisc.ernet.in] and should include following :
  - Title of the project
  - Name of the College & Department
  - Name of the students & Guide(s)
  - Keywords

Dept File  
Daru  
26/04/18



- 6) Introduction / background  
(with specific reference to the project, work done earlier, etc) - about 20 lines
- 6) Objectives (about 10 lines)
- 7) Methodology (about 20 lines)  
(materials, methods, details of work carried out, including drawings, diagrams etc)
- 8) Results and Conclusions  
(about 20 lines with specific reference to work carried out)
- 9) Scope for future work (about 20 lines).

**(Note: The write-up (Synopsis) should be sent with the approval of project guide. The softcopy of the write-up, in MS Word format, should be sent by e-mail (spp@kscst.iisc.ernet.in). In your e-mail, please also include project proposal reference number and title of the project.)**

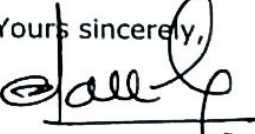
e) Projects selected for Seminar / Exhibition will be awarded.

The sanctioned amount will be sent separately by our Accounts Department.

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Please visit our website for further announcements / information and for any clarifications please email to spp@kscst.iisc.ernet.in

Thanking you and with best regards,

Yours sincerely,  
  
 (S.G.S. Swamy)

Copy to:

- 1) The Head of the Department of  
Electronics And Communication Engineering  
St. Josephs Engineering College,  
Vamanjoor,  
Mangaluru - 575 028.
- 2) Mr. Gandhimathinathan  
Department of Electronics And Communication Engineering  
St. Josephs Engineering College,  
Vamanjoor,  
Mangaluru - 575 028.
- 3) The Finance Officer, KSCST, Bangalore





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**Mr. H. Hemanth Kumar**  
Executive Secretary

27th March 2019

Ref: 7.1.01/SPP/1333

The Principal,  
St. Josephs Engineering College,  
Vamanjoor,  
Mangaluru - 575 028.

Dear Sir/Madam,

Sub : Sanction of Student Project - 42nd Series: Year 2018-2019  
Your Project Proposal Reference No. : **42S\_BE\_2711**

Ref : Your Project Proposal entitled " **REAL TIME FEEDBACK SYSTEM FOR SPEECH THERAPY**

I am happy to inform that your student project proposal referred above, has been approved by the Council for "Student Project Programme - 42nd Series" and has been sanctioned with a budgetary break-up as detailed below:

Student / s	Mr. Prathwi Raj Jain and others	Budget	Amount (Rs)
		Materials/Consumables	5,000.00
Guide/s	Mrs. Jennifer Charlotte Saldanha	Labor	-
		Travel	500.00
Department	Electronics And Communication Engineering	Miscellaneous	500.00
		Report	500.00
		<b>TOTAL</b>	<b>6,500.00</b>
<b>SIX THOUSAND FIVE HUNDRED RUPEES ONLY</b>			

The following are the guidelines to carryout the project work :

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- Please quote your **project reference number printed above** in all your future correspondences.
- Important:** After completing the project, 2 to 3 page write-up (synopsis) needs to be sent by e-mail [spp@kscst.iisc.ernet.in] and should include following :

- Title of the project
- Name of the College & Department
- Name of the students & Guide(s)
- Keywords

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13/04/19



- 6) Introduction / background  
(with specific reference to the project, work done earlier, etc) - about 20 lines
- 6) Objectives (about 10 lines)
- 7) Methodology (about 20 lines)  
(materials, methods, details of work carried out, including drawings, diagrams etc)
- 8) Results and Conclusions  
(about 20 lines with specific reference to work carried out)
- 9) Scope for future work (about 20 lines).

**(Note: The write-up (Synopsis) should be sent with the approval of project guide. The softcopy of the write-up, in MS Word format, should be sent by e-mail (spp@kscst.iisc.ernet.in). In your e-mail, please also include project proposal reference number and title of the project.)**

- e) Projects selected for Seminar / Exhibition will be awarded.

The sanctioned amount will be sent through NEFT by Accounts Department. Please furnish the bank account details as per the format enclosed with this letter.

**The sponsored projects evaluation will be held in the Nodal Centre and the details of the nodal centre will be intimated shortly by e-mail / Website announcement.**

Please visit our website for further announcements / information and for any clarifications please email to spp@kscst.iisc.ernet.in

Thanking you and with best regards,

Yours sincerely,



(H. Hemanth Kumar)

Copy to:

- 1) The Head of the Department of  
Electronics And Communication Engineering  
St. Josephs Engineering College,  
Vamanjoor,  
Mangaluru - 575 028.
- 2) Mrs. Jennifer Charlotte Saldanha  
Department of Electronics And Communication Engineering  
St. Josephs Engineering College,  
Vamanjoor,  
Mangaluru - 575 028.
- 3) The Finance Officer, KSCST, Bangalore

Encl: As Above





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**Mr. H. Hemanth Kumar**  
Executive Secretary

27th March 2019

Ref: 7.1.01/SPP/1333

The Principal,  
St. Josephs Engineering College,  
Vamanjoor,  
Mangaluru - 575 028.

Dear Sir/Madam,

Sub : Sanction of Student Project - 42nd Series: Year 2018-2019

Your Project Proposal Reference No. : 42S\_BE\_2713

Ref : Your Project Proposal entitled " **AUTOMATED MANAGEMENT OF FOOD GRAIN WAREHOUSE CONDITIONS**

I am happy to inform that your student project proposal referred above, has been approved by the Council for "Student Project Programme - 42nd Series" and has been sanctioned with a budgetary break-up as detailed below:

Student / s	Mr. Sachin and others	Budget	Amount (Rs)
		Materials/Consumables	5,000.00
Guide/s	Ms. Rashmi H.	Labor	-
		Travel	500.00
Department	Electronics And Communication Engineering	Miscellaneous	500.00
		Report	500.00
		<b>TOTAL</b>	<b>6,500.00</b>
<b>SIX THOUSAND FIVE HUNDRED RUPEES ONLY</b>			

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- Title of the project
- Name of the College & Department
- Name of the students & Guide(s)
- Keywords

Dept file

13/04/19



## 6) Introduction / background

(with specific reference to the project, work done earlier, etc) - about 20 lines

## 6) Objectives (about 10 lines)

## 7) Methodology (about 20 lines)

(materials, methods, details of work carried out, including drawings, diagrams etc)

## 8) Results and Conclusions

(about 20 lines with specific reference to work carried out)

## 9) Scope for future work (about 20 lines).

**(Note: The write-up (Synopsis) should be sent with the approval of project guide. The softcopy of the write-up, in MS Word format, should be sent by e-mail (spp@kscst.iisc.ernet.in). In your e-mail, please also include project proposal reference number and title of the project.)**

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Please visit our website for further announcements / information and for any clarifications please email to spp@kscst.iisc.ernet.in

Thanking you and with best regards,

Yours sincerely,



(H. Hemanth Kumar)

Copy to:

1) The Head of the Department of  
Electronics And Communication Engineering  
St. Josephs Engineering College,  
Vamanjoor,  
Mangaluru - 575 028.

2) Ms. Rashmi H.  
Department of Electronics And Communication Engineering  
St. Josephs Engineering College,  
Vamanjoor,  
Mangaluru - 575 028.

3) The Finance Officer, KSCST, Bangalore

Encl: As Above





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**Mr. H. Hemanth Kumar**  
Executive Secretary

27th March 2019

Ref: 7.1.01/SPP/1333

The Principal,  
St. Josephs Engineering College,  
Vamanjoor,  
Mangaluru - 575 028.

Dear Sir/Madam,

Sub : Sanction of Student Project - 42nd Series: Year 2018-2019  
Your Project Proposal Reference No. : 42S\_BE\_2714


Ref : Your Project Proposal entitled " **AUTOMATED RUBBER TAPPING & RUBBER MILK MIXING MACHINE**

I am happy to inform that your student project proposal referred above, has been approved by the Council for "Student Project Programme - 42nd Series" and has been sanctioned with a budgetary break-up as detailed below:

Student / s	Mr. Pavan P and others	Budget	Amount (Rs)
		Materials/Consumables	6,000.00
Guide/s	Mrs. Deepthi S R	Labor	500.00
		Travel	500.00
Department	Electronics And Communication Engineering	Miscellaneous	500.00
		Report	500.00
		<b>TOTAL</b>	<b>8,000.00</b>
<b>EIGHT THOUSAND RUPEES ONLY</b>			

The following are the guidelines to carryout the project work :

- The project should be performed based on the objectives of the proposal sent by you.
- The project should be completed in all respects and one copy of the hardbound report along with softcopy of the full report in a CD (.pdf format) should be submitted to KSCST.
- Any change in the project title and objectives, etc., or students is liable to rejection of the project and the amount sanctioned needs to be returned to KSCST.
- Please quote your **project reference number printed above** in all your future correspondences.
- Important:** After completing the project, 2 to 3 page write-up (synopsis) needs to be sent by e-mail [spp@kscst.iisc.ernet.in] and should include following :
  - Title of the project
  - Name of the College & Department
  - Name of the students & Guide(s)
  - Keywords

  
13/4/19



- 6) Introduction / background  
(with specific reference to the project, work done earlier, etc) - about 20 lines
- 6) Objectives (about 10 lines)
- 7) Methodology (about 20 lines)  
(materials, methods, details of work carried out, including drawings, diagrams etc)
- 8) Results and Conclusions  
(about 20 lines with specific reference to work carried out)
- 9) Scope for future work (about 20 lines).

**(Note: The write-up (Synopsis) should be sent with the approval of project guide. The softcopy of the write-up, in MS Word format, should be sent by e-mail (spp@kscst.iisc.ernet.in). In your e-mail, please also include project proposal reference number and title of the project.)**

- e) Projects selected for Seminar / Exhibition will be awarded.

The sanctioned amount will be sent through NEFT by Accounts Department. Please furnish the bank account details as per the format enclosed with this letter.

**The sponsored projects evaluation will be held in the Nodal Centre and the details of the nodal centre will be intimated shortly by e-mail / Website announcement.**

Please visit our website for further announcements / information and for any clarifications please email to spp@kscst.iisc.ernet.in

Thanking you and with best regards,

Yours sincerely,



(H. Hemanth Kumar)

Copy to:

- 1) The Head of the Department of  
Electronics And Communication Engineering  
St. Josephs Engineering College,  
Vamanjoor,  
Mangaluru - 575 028.
- 2) Mrs. Deepthi S R  
Department of Electronics And Communication Engineering  
St. Josephs Engineering College,  
Vamanjoor,  
Mangaluru - 575 028.
- 3) The Finance Officer, KSCST, Bangalore

Encl: As Above





# ST JOSEPH ENGINEERING COLLEGE

(Affiliated to VTU, Belagavi and recognised by the AICTE, New Delhi.  
B.E. - CSE, ECE, EEE, ME Accredited by NBA, New Delhi)

ಸಂತ ಜೋಸೆಫ್ ತಾಂತ್ರಿಕ ಮಹಾವಿದ್ಯಾಲಯ

Ref. No.SJEC/Prin/B/2019/40

Date: 14 May 2019

To

Dr.Satish Annigeri

Registrar (I/C)

Visvesvaraya Technological University

"Jnana Sangama" Belagavi - 590 018

Dear Sir

Sub: Regarding Financial Assistance for Innovative Projects of Final Year Undergraduate Students for the year 2018-19

Ref: VTU/BGM/Area-OS/Gen-Cir/2018-19/10716 VTU dated 02 March 2019

With reference to the above we are submitting the detailed Project report of all the selected projects from all branches at Undergraduate level offered by the College. The projects were selected by Departmental Committees constituted as per norms specified.

Sl. No.	Branch	Title of the Project	Names of the student	Name of Guide
1	Electrical & Electronics Engineering	AniMo- Animal Vitals Monitoring System	1. Bhavyashree 2. Evon Treza Sequeira 3. Shreyas K: 4. Sujan	Mr Sathisha K
2	Electrical & Electronics Engineering	Aqua Drone-RC Floating Waste Collector & Water -Air Quality Monitoring System	1.Arrol Devin Pereira 2. Manjunath 3. Prashant 4. Shivaprasad S. Katti	Mr Sanath Saralaya
3	Civil Engineering	Water Filtration bed and ceramic microfiltration membrane from mineral coal fly ash	1. Ms Mahima S Rao 2.Mr Melroy Royston Dsouza 3. Mr Mahesha S M 4.Ms Vaishnavi T Rajeev	Dr Nalini Rebello





# Karnataka State Council for Science and Technology

Indian Institute of Science Campus, Bengaluru - 560 012

Telephone: 080-2334 1652, 2334 8848, 2334 8849 ♦ Telefax: 080-2334 8840

Email: office@kscst.iisc.ernet.in, office@kscst.org.in ♦ Website: www.kscst.iisc.ernet.in, www.kscst.org.in

**Dr. S. G. Sreekanteswara Swamy**  
Executive Secretary

27th March 2017

Ref: 7.1.03/SPP/1112

The Principal  
St. Josephs Engineering College,  
Vamanjoor,  
Mangalore - 575 028

Dear Sir,

Sub : Sanction of Student Project - 40th Series: Year 2016-2017

**Your Project Proposal Reference No. : 40S\_BE\_1153**

Ref : Your Project Proposal entitled " **ARECANUT TREE CLIMBER AND PESTICIDE SPRAYER**

I am happy to inform that your project proposal referred above, has been approved by the Secretary, KSCST for "Student Project Programme - 40th Series" and has been sanctioned with a budgetary break-up as detailed below:

Student / s	Mr. Jnanasagar Kamath and others	Budget	Amount (Rs)
		Materials/Consumables	5,500.00
Guide/s	Prof. Divya K Pai	Labor	-
		Travel	-
Department	Electrical And Electronics Engineering	Miscellaneous	-
		Report	500.00
		<b>TOTAL</b>	<b>6,000.00</b>
	<b>Rupees Six Thousand</b>		

The following are the guidelines to carryout the project work :

- The project should be performed based on the objectives of the proposal sent by you.
- The project should be completed in all respects and one copy of the hardbound report along with softcopy of the full report in a CD (.pdf format) should be submitted to KSCST.
- Any change in the project title and objectives, etc., or students is liable to rejection of the project and the amount sanctioned needs to be returned to KSCST.
- Please quote your **project sanction reference number printed above** in all your future correspondences.
- Important:** After completing the project, 2 to 3 page write-up (synopsis) needs to be sent by e-mail [spp@kscst.iisc.ernet.in] and should include following :
  - Title of the project
  - Name of the College & Department
  - Name of the students & Guide(s)
  - Keywords

To A. Ramt N.B  
→ funding file  
→ Ms. Divya Pai  
→ To students



- 5) Introduction / background  
(with specific reference to the project, work done earlier, etc) - about 20 lines
- 6) Objectives (about 10 lines)
- 7) Methodology (about 20 lines)  
(materials, methods, details of work carried out, including drawings, diagrams etc)
- 8) Results and Conclusions  
(about 20 lines with specific reference to work carried out)
- 9) Scope for future work (about 20 lines).

**(Note: The write-up (Synopsis) should be sent with the approval of project guide. The softcopy of the write-up, in MS Word format, should be sent by e-mail (spp@kscst.iisc.ernet.in). In your e-mail, please also include project proposal reference number and title of the project.)**

e) Projects selected for Seminar / Exhibition will be awarded.

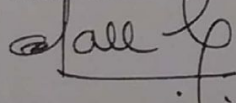
The sanctioned amount will be sent separately by our Accounts Department.

**The sponsored projects evaluation will be held in the Nodal Centre and the details of the nodal centre will be intimated shortly.**

Please visit our website for further announcements / information and for any clarifications please email to spp@kscst.iisc.ernet.in

Thanking you and with best regards,

Yours sincerely,



(SGS Swamy)

Copy to:

- 1) The Head of the Department of  
Electrical And Electronics Engineering  
St. Josephs Engineering College,  
Vamanjoor,  
Mangalore - 575 028
- 2) Prof. Divya K Pai  
Department of Electrical And Electronics Engineering  
St. Josephs Engineering College,  
Vamanjoor,  
Mangalore - 575 028
- 3) The Finance Officer, KSCST, Bangalore





# Karnataka State Council for Science and Technology

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**Dr. S. G. Sreekanteswara Swamy**  
Executive Secretary

28th March 2018

Ref: 7.1.01/SPP/08

The Principal,  
St. Josephs Engineering College,  
Vamanjoor,  
Mangaluru - 575 028.

Dear Sir,

Sub : Sanction of Student Project - 41st Series: Year 2017-2018  
Your Project Proposal Reference No. : **41S\_BE\_1114**

Ref : Your Project Proposal entitled " **BETEL-NUT SORTER**

I am happy to inform that your project proposal referred above, has been approved by the Secretary, KSCST for "Student Project Programme - 41st Series" and has been sanctioned with a budgetary break-up as detailed below:

Student / s	Mr. Tejas Harishchandra Acharya and others	Budget	Amount (Rs)
Guide/s	Mr. Ajithanjaya Kumar	Materials/Consumables	6,000.00
		Labor	-
Department	Electrical And Electronics Engineering	Travel	-
		Miscellaneous	500.00
		Report	500.00
		<b>TOTAL</b>	<b>7,000.00</b>
<b>RUPEES SEVEN THOUSAND</b>			

The following are the guidelines to carryout the project work :

- The project should be performed based on the objectives of the proposal sent by you.
- The project should be completed in all respects and one copy of the hardbound report along with softcopy of the full report in a CD (.pdf format) should be submitted to KSCST.
- Any change in the project title and objectives, etc., or students is liable to rejection of the project and the amount sanctioned needs to be returned to KSCST.
- Please quote your **project sanction reference number printed above** in all your future correspondences.
- Important:** After completing the project, 2 to 3 page write-up (synopsis) needs to be sent by e-mail [spp@kscst.iisc.ernet.in] and should include following :
  - Title of the project
  - Name of the College & Department
  - Name of the students & Guide(s)
  - Keywords



- 6) Introduction / background  
(with specific reference to the project, work done earlier, etc) - about 20 lines
- 6) Objectives (about 10 lines)
- 7) Methodology (about 20 lines)  
(materials, methods, details of work carried out, including drawings, diagrams etc)
- 8) Results and Conclusions  
(about 20 lines with specific reference to work carried out)
- 9) Scope for future work (about 20 lines).

**(Note: The write-up (Synopsis) should be sent with the approval of project guide. The softcopy of the write-up, in MS Word format, should be sent by e-mail (spp@kscst.iisc.ernet.in). In your e-mail, please also include project proposal reference number and title of the project.)**

- e) Projects selected for Seminar / Exhibition will be awarded.

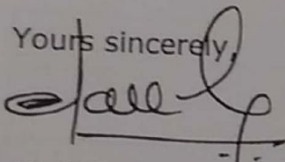
The sanctioned amount will be sent separately by our Accounts Department.

**The sponsored projects evaluation will be held in the Nodal Centre and the details of the nodal centre will be intimated shortly by e-mail / Website announcement.**

Please visit our website for further announcements / information and for any clarifications please email to spp@kscst.iisc.ernet.in

Thanking you and with best regards,

Yours sincerely,



(S.G.S. Swamy)

Copy to:

- 1) The Head of the Department of  
Electrical And Electronics Engineering  
St. Josephs Engineering College,  
Vamanjoor,  
Mangaluru - 575 028.

- 2) Mr. Ajithanjaya Kumar  
Department of Electrical And Electronics Engineering  
St. Josephs Engineering College,  
Vamanjoor,  
Mangaluru - 575 028.

- 3) The Finance Officer, KSCST, Bangalore





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**Dr. S. G. Sreekanteswara Swamy**  
Executive Secretary

28th March 2018

Ref: 7.1.01/SPP/08

The Principal,  
St. Josephs Engineering College,  
Vamanjoor,  
Mangaluru - 575 028.

Dear Sir,

Sub : Sanction of Student Project - 41st Series: Year 2017-2018  
Your Project Proposal Reference No. : **41S\_BE\_1514**

Ref : Your Project Proposal entitled " **DESIGN AND FABRICATION OF AUTOMATIC ARECANUT PROCESSING UNIT**

I am happy to inform that your project proposal referred above, has been approved by the Secretary, KSCST for "Student Project Programme - 41st Series" and has been sanctioned with a budgetary break-up as detailed below:

Student / s	Mr. Royston Shawn Louis and others	Budget	Amount (Rs)
		Materials/Consumables	8,000.00
Guide/s	Mr. Yatish Kumar K.	Labor	1,000.00
		Travel	500.00
Department	Mechanical Engineering	Miscellaneous	-
		Report	500.00
		<b>TOTAL</b>	<b>10,000.00</b>
<b>RUPEES TEN THOUSAND</b>			

The following are the guidelines to carryout the project work :

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  - Title of the project
  - Name of the College & Department
  - Name of the students & Guide(s)
  - Keywords