

	S J P N Trust's		E&E Engg. Dept.
	<b>Hirasugar Institute of Technology, Nidasoshi</b>		Academics
	<i>Inculcating Values, Promoting Prosperity</i>		Project
	Approved by AICTE, Recognized by Govt. of Karnataka and Affiliated to VTU Belagavi. Accredited at 'A' Grade by NAAC Programmes Accredited by NBA: CSE, ECE, EEE & ME		2019-20

## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

### Sponsored Projects for the year 2019-20

Sl. No.	Project Title	Branch	Sponsored by	Guide	Name of the student leader	Sanctioned Amount
1	Design and Implementation of Control Techniques for Battery Management System in PHEV	EEE	KSCST, Bengaluru	Dr. B. V. Madiggond	Miss. Shambhavi Patil	4500.00
					Miss. Tousipa Gargad	
					Mr. Veerabhadra Uppar	
					Mr. Pradeep Angadi	
2	Design and implementation of Quasi-Z source Inverter for EVs with regenerative braking	EEE	KSCST, Bengaluru	Prof. O. B. Heddurshetti	Miss. Snehalata Desai	4500.00
					Miss. Tejaswini Patil	
					Miss. Shruti Galagi	
					Miss. Sharada Hiremath	
3	Design and implementation of Quasi-Z source Inverter for EVs with regenerative braking	EEE	FAER	Prof. O. B. Heddurshetti	Miss. Snehalata Desai	5000.00
					Miss. Tejaswini Patil	
					Miss. Shruti Galagi	
					Miss. Sharada Hiremath	

  
 Project Coordinator  
 Prof. M.P. Yanagimath

  
 HOD  
 Dr. Basavaraj V. Madiggond  
**Dr. B. V. Madiggond**  
 Prof. & Head BE, ME, Ph.D.  
 Dept. of Electrical & Electronics Engg.  
 HIT NIDASOSHI-591 236





# Karnataka State Council for Science and Technology

Indian Institute of Science Campus, Bengaluru - 560 012

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

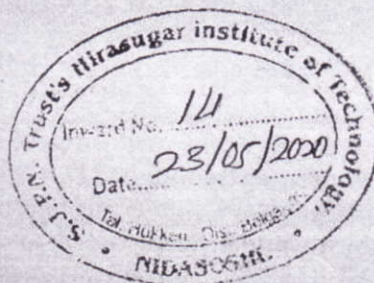
Email: [office@kscst.iisc.ernet.in](mailto:office@kscst.iisc.ernet.in), [office@kscst.org.in](mailto:office@kscst.org.in) ♦ Website: [www.kscst.iisc.ernet.in](http://www.kscst.iisc.ernet.in), [www.kscst.org.in](http://www.kscst.org.in)  
[office.kscst@iisc.ac.in](mailto:office.kscst@iisc.ac.in)

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

16th March, 2020

Ref: 7.1.01/SPP/953

The Principal,  
Hirasugar Institute of Technology,  
Belagavi - 591 236.



Dear Sir/Madam,

Sub : Sanction of Student Project - 43rd Series: Year 2019-2020

Your Project Proposal Reference No. : 43S\_BE\_3846

Ref : Your Project Proposal entitled " **DESIGN AND IMPLEMENTATION OF CONTROL TECHNIQUES FOR BATTERY MANAGEMENT SYSTEM IN PHEV**

We are pleased to inform that your student project proposal referred above, has been approved by the Council under "Student Project Programme - 43rd Series" with a budgetary break-up as detailed below:

Students	Particulars	Budget	
		Amount (Rs)	
Ms. Shambhavi Patil	Materials/Consumables	4,000.00	
Ms. Tousipa Gargad	Labour		
Mr. Veerabhadra Uppar	Travel		
Mr. Pradeep Angadi	Miscellaneous	500.00	
Guide/s	Dr. B.V. Madiggond		
Department	Electrical And Electronics Engineering	Report	
		Total	4,500.00
Four Thousand Five Hundred Rupees Only			

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](mailto: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.**

**IMPLEMENTATION OF HARDWARE/TESTING IT DURING MIDTERM EVALUATION IS MANDATORY.**

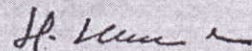
The sanctioned amount will be sent through crossed cheque to the Principal. Please furnish the bank account details as per the format enclosed with this letter.

**The sponsored projects evaluation will be held in the Nodal Centre and the details of the nodal centre will be intimated shortly by email / 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  
Electrical And Electronics Engineering  
Hirasugar Institute Of Technology,  
Belagavi - 591 236.

- 2) Dr. B.V. Madiggond  
Department of Electrical And Electronics Engineering  
Hirasugar Institute Of Technology,  
Belagavi - 591 236.

- 3) The Finance Officer, KSCST, Bengaluru

Encl: As Above





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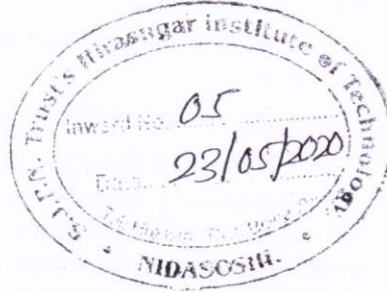
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[office.kscst@iisc.ac.in](mailto:office.kscst@iisc.ac.in)

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

16th March, 2020

Ref: 7.1.01/SPP/953

The Principal,  
Hirasugar Institute of Technology,  
Belagavi - 591 236.



Dear Sir/Madam,

Sub : Sanction of Student Project - 43rd Series: Year 2019-2020

Your Project Proposal Reference No. : **43S\_BE\_0451**

Ref : Your Project Proposal entitled " **DESIGN AND IMPLEMENTATION OF QUASI Z-SOURCE INVERTER FOR ELECTRIC VEHICLE WITH REGENERATIVE BRAKING**

We are pleased to inform that your student project proposal referred above, has been approved by the Council under "Student Project Programme - 43rd Series" with a budgetary break-up as detailed below:

Students	Ms. Snehalata D Desai	Budget	
	Ms. Tejaswini Patil	Particulars	Amount (Rs)
	Ms. Shruti Galagi	Materials/Consumables	3,500.00
	Ms. Sharada Hiremath	Labour	-
Guide/s	Prof. Onkar B Heddurshetti	Travel	-
	-	Miscellaneous	500.00
Department	Electrical And Electronics Engineering	Report	500.00
		Total	4,500.00
	Four Thousand Five Hundred Rupees Only		

The following are the guidelines to carryout the project work :

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

To:  
Prof. OBH  
20/03/2020

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

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**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.**

**DEMONSTRATE DURING MIDTERM EVALUATIONS**

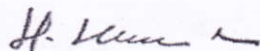
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Please visit our website for further announcements / information and for any clarifications please email to spp@kscst.iisc.ernet.in

Thanking you and with best regards,

Yours sincerely,



(H. Hemanth Kumar)

Copy to:

- 1) The Head of the Department of  
Electrical And Electronics Engineering  
Hirasugar Institute Of Technology,  
Belagavi - 591 236.
- 2) Prof. Onkar B Heddurshetti  
Department of Electrical And Electronics Engineering  
Hirasugar Institute Of Technology,  
Belagavi - 591 236.
- 3) The Finance Officer, KSCST, Bengaluru

Encl: As Above

Handwritten notes: 1107/999/2/23/5



23 December 2019

Dear Participants,

**Congratulations!** On behalf of FAER, I wish to congratulate you and your team. Your project proposal named "**Application of quasi z source inverter on electric vehicle with regenerative breaking**" was short listed in the first round for "FAER Scholar award".

You need to complete the project (as specified in your proposal) by May 2020 and a final report needs to be submitted to FAER by 13<sup>th</sup> May 2020. A partial financial funding (as per the rules of FAER) is possible towards the selected projects. The funding is limited to a maximum of Rs 5000/- per project and is subjected to successful completion, selection and presentation at the final award function. Please note that partial funding is subjected to rules of FAER, as detailed on the website. Students are expected to taking up this project for FAER Scholar Project only and will not submit this to any other contest.

Mean while, please let us know in case there are any changes in the Team compositions and the details of your guide at your institution.

Thanking you,

Sincerely yours,

(K Sridhar)

Secretary  
Foundation for Advancement of Education and Research  
G5, Swiss Complex,  
33, Race Course Road  
Bangalore - 560001  
E-mail: office@faer.ac.in