

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.lisc.ernet.in; office@kscst.org.in • Website: www.kscst.iisc.ernet.in; www.kscst.org.in

Dr. S. G. Sreekanteswara Swamy Executive Secretary

Ref: 7.1.01/SPP/08

28th MARCH 2018

The Principal, Sapthagiri College of Engineering, #14/5, Chickasandra, Hesaraghatta Main Road, Bengaluru – 560 057.

Dear Sir,

Sub ; Sanction of Student Project (Biofuel) - 41st Series ; Year 2017-2018

Your Project Proposal Reference No. :

415_B_BE_076

Ref : Your Project Proposal entitled Design and Lab scale ultrasound Batch reactor for the production of Biodiesel from the Slaughter Waste.

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

Student / s	Ms. Niranjana S.	Budget	Amount (Rs)		
	and others	Materials/Consumables	7,000.00		
Guide/s	Prof. Kavya M. V., Prof. Shobha G.	Labor			
	a Mrs. Soumya C	Travel	500.00		
		Analysis	60 PRO 11 PRO 12		
Department	Biotechnology	Miscellaneous	500.00		
		Report	500.00		
	S. J. Janes and art of	TOTAL	8,500.00		
	RUPEES EIGHT THOUSAND FIVE HUNDRED				

The following are the guidelines to carryout the project work :

- a) The project should be carried out based on the objectives of the proposal sent by you.
- b) The project should be completed in all respects and a) One copy of the hardbound report b) Softcopy of the full report (including coverpages, abstract & preliminary pages in a CD (.doc and .pdf format)
- c) The project report shall mention the name of "Karnataka State Bloenergy Development Board and Karnataka State Council for Science and Technology" as sponsored organisations in the title page. Project Title or the objectives can be altered only with prior permission of KSCST. Any change in the project are strictly prohibited and liable for rejection and the amount sanctioned has to be returned back to KSCST. The fund is to be utilised only for the activities to which it has been released.

 d) Please quote your <u>project sanction reference number printed above</u> in all your future correspondences.

e) Important: After completing the project, 2 to 3 page write-up (synopsis) needs to be sent by e-mail [biofuelcell.kscst@gmail.com] and should include following:

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1) Title of the project

2) Name of the College & Department

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3) Name of the students & Guide(s)

41S_B_BE_076

- 4) Keywords
- Introduction / background (with specific reference to the project, work done earlier, etc) - about 20 lines
- 6) Objectives (about 10 lines)
- Methodology (about 20 lines)
 (materials, methods, details of work carned out, including drawings, diagrams etc)
- 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 (biofuelcell.kscst@gmail.com). In your e-mail, please also include project proposal reference number and title of the project.)
- e) Best Projects will be awarded in Final Seminar / Exhibition.

The amount sanctioned for the selected projects will be sent by cheque.

The Mid term evaluation of the sponsored projects evaluation details will be intimated shortly by email / Website announcement..

Please visit our website for further announcements / information and for any clarifications please email to biofuelcell.kscst@gmail.com

Thanking you and with best regards,

Yours sincerely,

SD/-

Copy to:

- The Head of the Department of Biotechnology Sapthagiri College of Engineering, #14/5, Chickasandra, Hesaraghatta Main Road, Bengaluru - 560 057
- Prof. Kavya M. V., Prof. Shobha G. & Mrs. Soumya C Department of Biotechnology Sapthagiri College of Engineering, #14/5, Chickasandra, Hesaraghatta Main Road, Bengaluru - 560 057
- 3) The Finance Officer, KSCST, Bangalore

Principal

Sapthagiri College of Engineering 14/5, Chikkesendre, Heseraphette Mein Rosd Bengaluru - 560 057

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Principal
Sapthegiri College of Engineering
Chikkasandra, Hesaraghatta Road.
Bangalore-560 057

DESIGN OF LAB SCALE ULTRASOUND BATCH REACTOR FOR THE PRODUCTION OF BIODIESEL FROM THE SLAUGHTER WASTE

A Project Report submitted to the Karnataka State Council For Science And Technology (KSCST-2017-18)

Submitted By

Niranjana Srikrishnan

Department of Biotechnology Sapthagiri College of Engineering

Under the guidance of

Mrs Kavya M V

Assistant Professor

Department of Biotechnology

Sapthagiri College of Engineering

Mrs. Shobha G

Assistant Professor

Department of Biotechnology

Sapthagiri College of Engineering

Mrs. Soumya C

Assistant Professor

Department of Biotechnology

Sapthagiri College of Engineering

Submitted to

KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

INDIAN INSTITUTE OF SCIENCE CAMPUS.

BENGALURU - 560012

Karnataka

Sapthegiri College of Engineer Chikkasandra, Hesaraghatta Rose,

Bangalore-560 057

SAPTHAGIRI COLLEGE OF ENGINEERING

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560 057



DEPARTMENT OF BIOTECHNOLOGY

CERTIFICATE

This is to certified that the project work entitled "Design of lab scale ultrasound batch reactor for the production of biodiesel from the slaughter waste" has been carried out by Ms. Niranjana S, bonafide student of VIII semester B.E in Biotechnology of Sapthagiri College of Engineering, under scheme of The Karnataka State Council For Science And Technology during the academic year 2017-2018. The research is a record of original work carried out by them, in Department of Biotechnology, Sapthagiri College of Engineering, Bangalore, Karnataka, under our guidance and supervision and it has not formed the basis for the award of any Degree.

Signature of Guides

Signature of HOD

Signature of Principal

Sapthagiri College of Engineering Chikkasandra, Heseraghalla Room

Bangalore-660 057



SRI SRINIVASA EDUCATIONAL & CHARITABLE TRUST (R)

SAPTHAGIRI COLLEGE OF ENGINEERING

(Affiliated to Visveswaraya Technological University, Belgaum & Approved by AICTE - New Delhi)

KSCST PROJECTS

UTILIZATION CERTIFICATE

KSCST Student project program 41st series- 2017-18

Sl No	Title of the project	Amount	Certified that KSCST has			
1	Investigation on Performance and pollution level on n- butanol blended petrol fuelled IC engine (10% to 50% blending)	11000/-	provided partial financial support of RS 29,000/- towards Biofuel and SPP student project program 41st series Sum of Rs29,000/- only has			
2	Real time free parking slots tracking using IOT technology	4500/-	been utilize for the purpose Biofuel and SPP student project			
3	Women Security System	5000/-	program for which it wa sanction			
4	Design and Lab scale ultrasound batch reactor for the production of biodiesel from the slaughter waste	8500/-				

Certified that I have satisfied myself that condition on which the grant in aid sanctioned has been duly/are be fulfilled and that I have excise the following check to see that the money was actually utilized for the purpose for which it was sanctioned.

Kinds of check exercised

- 1. Cash book
- 2. Vouchers

Principal Engineering

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14/5, Chikkasandra, Hesaraghatta Main Road, Bangalore - 560 057. KARNATAKA, Tel : 2837 2800 / 01 / 02 / 03, 2313 0583 Fax : 080-2837 2797, E-mail : principal@sapthagiri.edu.in

Web: www.sapthagiri.edu.in



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SAPTHAGIRI COLLEGE OF ENGINEERING

(Affiliated to Visveswaraya Technological University, Belgam & Approved by AICTE - New Delhi)

Sl. No	Project proposal ref no	Title of the project	Dept./Guide	Amount Sanctio n by KSCST	Amount utilized by the college	Balance if any to be refunded to KSCST
1	41S_B_BE_0 62	Investigation on Performance and pollution level on n- butanol blended petrol fuelled IC engine (10% to 50% blending)	ME/ Prof. Raghuthama Rao	11000/-	11000/-	0
2	41S_B_BE_2 016	Real time free parking slots tracking using IOT technology	ISE/ Prof. Prerana Chaitra	4500/-	4500/-	0
3	41S_B_BE_0 470	Women Security System	EC/ Dr. Ashwatha Kumar S	5000/-	12,000	0
4	41S_B_BE_0 76	Design and Lab scale ultrasound batch reactor for the production of biodiesel from the slaughter waste	BT/ Prof. Kavya V M Prof. Shobha G Prof. Soumya C	8500/-	8,500/-	0

I fari

Signature of the Principal with seal

Got Date:

Signature of Auditor with seal

Date:

Phincipal
Sapthagiri College of Engines
Chikkasandra, Hesaraghatta Road

Bangalore-560 057

KSCST PROJECTS

UTILIZATION CERTIFICATE