



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
Fellow & Principal Investigator - SPP

23rd March 2015

Ref: 7.1.03/SPP/1018

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

Dear Sir,

Sub : Sanction of Student Project (Biofuel)-38th Series : Year 2014-2015

Your Project Proposal Reference No. :

38S_B_BE_038

Ref : Your Project Proposal entitled "

**THE POTENTIAL UTILIZATION OF PROCESSED ARECA CATECHU
WATER AN AGROWASTE FOR BIOETHANOL PRODUCTION BY
FERMENTATION PROCESS**

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

Student / s	Ms. Veda and others		Budget	Amount (Rs)
			Materials/Consumables	6,000.00
Guide/s	Prof. Shobha G		Labor	-
			Travel	-
Department	Biotechnology		Analysis	-
			Miscellaneous	500.00
			Report	500.00
			TOTAL	7,000.00
Rupees	SEVEN THOUSAND	ZERO HUNDRED		

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 **a) Two copies** of the hardbound report **b) Softcopy** of the full report in a CD (.doc and .pdf format) **c) A Poster** in Flex (2 x 3') for display should be submitted to KSCST.
- The project report shall mention the name of "Karnataka State Biofuel Development Board and Karnataka State Council for Science and Technology" as Sponsored Organisations in the title page. 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. The fund is to be utilised only to the activities to which it has been released.
- 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

Principal
Sapthagiri College of Engineering
14/5, Chickasandra, Hesaraghatta Main Road
Bengaluru - 560 057

Principal
Sapthagiri College of Engineering
Chickasandra, Hesaraghatta Road,
Bangalore-560 057

16-07-15

From,
Shobha G
Dept of Biotechnology,
Sapthagiri College of engineering,
Bangalore.

To,
Principal,
Sapthagiri College of engineering,
Bangalore.

Through

HOD

Respected Sir,

Subject: Requisition to grant KSCST Sanction fund amount

With reference to above subject I, Kindly request you to issue the cheque in the favour of Shobha G of the grant amount Rs 7,000 towards the procurement of chemicals, glass wares, characterization of sample and report preparation. The budget estimation to carry out project as attached.

Thanking You,

Shobha
Yours faithfully,
Shobha G


Forwarded for the
need for
ALF
16.7.15


B
Principal
Sapthagiri College of Engineering
Chikkasandra, Hesareghatta Main Road,
Bangalore-560 057

Kari
Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesareghatta Main Road
Bangalore - 560 057

147 4

BUDGET ESTIMATE			
Bill No		Particulars	Amount
1		Sample charcterisation	
		Gc analysis	1026
2		Chemicals	
		Dintrosalicylic acid	
		Potassium di chromate	
		Carboy methyl cellulose	
		Sodium potassium tatarate	
			4853
		Areca nuts	300
		Travel +Miscellaneous	316
3		Preparation of project report	505
		Grand total	7000


 16-7-15


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

GRACE ENTERPRISES

Ph : 99163 56657

Suppliers of : Laboratory Equipments Sales & Services, Glass Wares & Plastics Wares & Chemicals

101, 8th 'C' Cross, Venkatapura, Bangalore - 560 034. E-mail : graceenterprisessam@gmailcom

M/s. <u>Shobha-G</u>	TAX INVOICE (ORIGINAL) (DUPLICATE / TRIPLICATE)
<u>Dept of Biotechnology</u> <u>Sapthagiri college</u>	
No. <u>495</u>	Date

Your Order No.	Date	Challan No.	Date
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Despatched Per	To	To	From
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Freight : To Pay/Paid Rs.	No. of Cases	R.R./G.R./P.R. No.	Date
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Documents Through/Payment

Sl.No.	DESCRIPTION	RATE	QTY.	AMOUNT Rs.	Ps.
1.	Dinitro salicylic acid	1500	100g X 1	1500	80
2.	Potassium dichromate	650	500g X 1	550	80
3.	Carboxy methyl cellulose	1100	500g X 1	1100	80
4.	Sodium potassium sulfate	1007	500g X 1	1007	80
Vat 147.				4257	80
				595	98

[Signature]
Principal
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road,
Bangalore-560 057

Amount in Words Rs.	TOTAL	<u>4852</u>	<u>98</u>
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TIN No. : 29080728923	We certify the goods on which Sales Tax has been charged have not been exempted under Sales Tax Act or the rules made thereunder and that the Charges on account of Sales Tax on those goods are correct under the provision of the Act and the contract.	Time
Party's TIN No.		E. & O. E.
L.ST. No.	All goods are considered at consignee's Risk and we are not Responsible for any damage or breakage in transit. Interest will be charged at 24% on bills not paid within 30 days.	For GRACE ENTERPRISES <i>[Signature]</i>
C.S.T. No.		
Area Code.	SUBJECT TO BANGALORE JURISDICTION	

SCE-2014-15

Payment Voucher

No. : 905

Dated : 17-Jul-2015

Through : TGMC-103091002852

Particulars	Amount
-------------	--------

Account :

KSCST(Project Work)

7,000.00

On Account of :

being amount paid to Shobha G towards KSCST
Project work

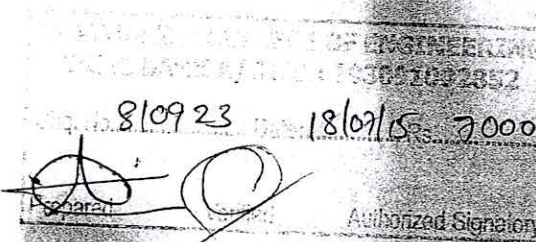
Bank Transaction Details:

Shobha..G

Cheque

17-Jul-2015

7,000.00



Amount (in words) :

INR Seven Thousand Only

₹ 7,000.00

Saptagiri College of Engineering
Chikkasandra, Hesareghatta Road,
Bangalore-560 057

Receiver's Signature

Authorised Signatory

Checked by:

Verified by

17-7-15

SPS **CASH BILL** Mobile :8892130893

SNEHA PRINTS

Opp. Sathagiri Engineering College, Hanumanthe Gowda Main Road,
Chikkasandra, Bangalore - 560 057.

No. 702 Date 24/06/2015

M/s. reda

Sl. No.	Description	Qty.	Amount
1	binding	85X3	255
2	printout	196	196/-
3	PHP Sheets	13X3	39/-
4	colour print	5X3	15/-
			505/-

For **SNEHA PRINTS**

13

Sathagiri College of Engineering
Principal
Chikkasandra, Hesareghatta Road
Bangalore-560 057

INVOICE

Format No. BTH/QF/19



BANGALORE TEST HOUSE

D-36, 4th Main, KSSIDC Industrial Estate, Rajajinagar,
Bengaluru - 560 044. INDIA

Ph.: 23356415, 23385979, 23502684, 23388895, Fax: 080-23502689

e-mail: bthr@bthindia.com bthindia@hotmail.com

website: www.bthindia.com

OHSAS 18001 : 2007 & ISO 9001 : 2008



JAS-ANZ



Cert. No. RQ91/JA/1111

Cert. No.: RO91/JA/IC/1111

M/s.: Veda.G Sapthagiri College of Engineering, 14/5, Chikkasandra, Hesaraghatta Main Road, Bangalore-560057 Phone : 9738324954	Invoice No: FC-0635 Date : 22/06/2015 Area Code: General Ref.No. : RFA, Dt:18.06.15
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L.	Name of sample	Report No.	Batch No.	Amount
1	Areca Water	FC/2015/06/0769	--	1000.00
Total Amount 1000.00 Discount@ 10.00% 100.00 Gross Amount 900.00 Collection Charges 0.00 Boarding & Lodging Charges 0.00 Transportation Charges 0.00 Service Tax 14.00% 126.00 Education Cess 0.00% 0.00 H.S.E.C. 0.00% 0.00 Rounded Off 0.00				
Grand Total				1026.00

IN WORDS): Rs. ONE THOUSAND TWENTY SIX ONLY

Service Tax NO.: STC/TIC/AAZPC8617L/ST001

PAN NO. : AAZPC8617L

Service Tax Category :Technical Testing and Analysis

The sample is accepted by us subject to our general conditions of services which is available on request

The testing has been performed to the best of our ability & total liability of our laboratory is limited to the invoice chareges/tesing charges only. The test certificate does not relieve the parties from their contractual obligations etc.

All disputes are subject to BANGALORE Jurisdiction

Prepared By *Poy*

For BANGALORE TEST HOUSE

for *Authorised Signatory*

The Potential Utilization Of Processed Areca Catechu Water An Agro waste For Bioethanol Production By Fermentation Process

A Project Report Submitted To The Karnataka State Council For Science And
Technology
(KSCST – 2014-15)

Submitted By

Ms VEDA G

Under the guidance of

Mrs Shobha G

Assistant Professor

Department of Biotechnology

Sapthagiri College of Engineering

Affiliated to Visvesvaraya technological university

Bangalore, Karnataka

Submitted to

**KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY
INDIAN INSTITUTE OF SCIENCE CAMPUS,
BENGALURU - 560012
Karnataka**


**Principal
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road,
Bangalore-560 057**

DECLARATION

I, **Ms. Veda G** hereby declare that the project work, entitled "**The Potential Utilization of Processed Areca Catechu Water An Agro waste For Bioethanol Production By Fermentation Process**" submitted to **The Karnataka State Council For Science And Technology** is a record of original research work carried out by me during academic year 2014-2015 under the supervision and guidance of Ms Shobha G, Department of Biotechnology, Sathagiri College of Engineering, Bangalore, Karnataka.



Signature of the candidate

Veda G

Date: 25/6/2015

Place: Bangaluru



Principal
Sathagiri College of Engineering
Chikkasandra, Hesaraghatta Road,
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 "The Potential Utilization of Processed Areca Catechu Water An Agro waste For Bioethanol Production By Fermentation Process" has been carried out by Ms Veda G bonafide students of VII 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 2014-2015. 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.


(Shobha G)

Signature of Guide


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


(Dr. Aswatha Kumar M)

Signature of Principal
Dr. Aswatha Kumar. M
Principal
Sapthagiri College of Engineering
No. 14/5, Chikkasandra,
Hesaraghatta Main Road,
Bangalore-560 057.

KSCST PROJECTS

UTILIZATION CERTIFICATE

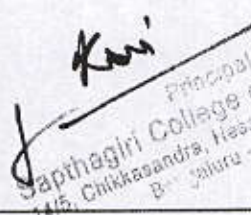
KSCST Student project program 38th series - 2014-2015

Sl No	Title of the project	Amount	Certified that KSCST has provided partial financial support of RS 24000/- towards Biofuel and SPP student project program 38th series Sum of Rs 24000/- only has been utilize for the purpose Biofuel and SPP student project program for which it was sanction
1	Estimation and de-identification of gender signature from finger prints	3000/-	
2	Fungallignin peroxidase for Bio Degradation of pulp paper and textile effluent	8000/-	
3	Multipurpose measuring device using Bluetooth on ANDROID	6000/-	
4	The potential utilization of processed areca catechu water an agro waste for bioethanol production by fermentation process	7000/-	

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
 Sapthagiri College of Engineering
 14/5, Chikkasandra, Hesaraghatta Main Road
 Bangalore - 560 057


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 14/5, Chikkasandra, Hesaraghatta Main Road
 Bangalore - 560 057

Sl. No	Project proposal ref no	Title of the project	Dept./Guide	Amount Sanction by KSCST	Amount utilized by the college	Balance if any to be refunded to KSCST
1	38S0913	Estimation and de-identification of gender signature from finger prints	CSE/ Prof. Kamalakshi Naganna	3000/-	3000/-	0
2	38S1628	Fungal lignin peroxidase for Bio Degradation of pulp paper and textile effluent	BT/ Prof. Soumya C Prof. Vinutha Moses	8000/-	8000/-	0
3	38S1329	Multipurpose measuring device using Bluetooth on ANDROID	EC/ Prof. Agalya P.	6000/-	6000/-	0
4	38S_B_BE_038	The potential utilization of processed areca catechu water an agro waste for bioethanol production by fermentation process	BT/ Prof. Shobha G	7000/-	7000/-	0

x kavi
Signature of the Principal with seal

Sapthagiri College of Engineering
 Date: Chikkasandra, Hesaraghatta Main Road
 Bengaluru - 560 057

Signature of Auditor with seal

Date:

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