

# 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.lisc.ernet.in, office@kscst.org.in ♦ Website: www.kscst.lisc.ernet.in, www.kscst.org.in

Dr. S. G. Sreekanteswara Swamy Fellow & Principal Investigator - SPP

Ref: 7.1.03/SPP/1018

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

27th March 2015

Had Supplied

Dear Sir,

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

Your Project Proposal Reference No.: 38S1628

Ref: Your Project Proposal entitled "

FUNGAL LIGNIN PEROXIDASE FOR BIODEGRADATION OF

PULP PAPER AND TEXTILE EFFLUENT

I am happy to inform that your project proposal referred above, has been approved by the Secretary, KSCST for "Student Project Programme - 38th Series" and has been sanctioned with a budgetary break-up as detailed below:

Student / s	Ms. Rohini S and others		Budget	Amount (Rs)	
			Materials/Consumables	5,000.00	
Guide/s	Asst. Prof. Soumya C & Asst. Prof. Vinutha Moses		Labor	1,000.00	
			Travel	1,000.00	
Department	Biotechnology		Miscellaneous	500.00	
•			Report	500.00	
			TOTAL	8,000.00	
Rupees	EIGHT	ZERO			
	THOUSAND	HUNDRED			

The following are the guidelines to carryout the project work:

- a) The project should be performed based on the objectives of the proposal sent by you.
- b) 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.
- c) 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.
- 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 [spp@kscst.iisc.ernet.in] and should include following:
  - 1) Title of the project
  - 2) Name of the College & Department
  - 3) Name of the students & Guide(s)
  - 4) Keywords



5) Introduction / background

3851628

(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.lisc.ernet.in

Thanking you and with best regards,

Yours sincerely

(SGS Swamy)

Copy to:

- The Head of the Department of Biotechnology
   Sapthagiri College Of Engineering 14/5, Chickasandra, Hesaraghatta Main Road, Bengaluru – 560 057
- Asst. Prof. Soumya C & Asst. Prof. Vinutha Moses Department of Biotechnology Sapthagiri College Of Engineering 14/5, Chickasandra, Hesaraghatta Main Road, Bengaluru – 560 057;
- 3) The Finance Officer, KSCST, Bangalore

Prizipal Engineering

Prizipal Engineering

Prizipal Engineering

# Fungal lignin peroxidase for biodegradation of paper pulp and textile effluent



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

**Submitted By** 

Ms Rohini S Ms Priyanka P Ullal

Under the guidance of

Mrs Soumya C

Mrs Vinutha Moses

Assistant Professor

Department of Biotechnology

Sapthagiri College of Engineering

Affiliated to Visvesvaraya technological university

Bangalore, Karnataka

### Submitted to

KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGYAL Engineering INDIAN INSTITUTE OF SCIENCE CAMPUS,

BENGALURU - 560012

Karnataka

Sarthegaringalore-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 "Fungal lignin peroxidase for radation of paper pulp and textile effluent" has been carried out by Ms Rohini and Ms Priyanka P Ullal bonafide students 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 2014-2015.** The research is a record of original work carried out by them, in Department of Biotechnology, Sapthagiri College of Expineering, Bangalore, Karnataka, under our guidance and supervision and it has not formed the basis for the award of any Degree.

Signature of Guide

Mrs. Vinutha Moses (M) Moses

(Dr. Aswatha Kumar M)

Signature of Principal

From,

Soumya C

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 soumya C of the grant amount Rs 8,000 towards the procurement of chemicals, glass wares, characterization of sample and report preparation. The budget estimation to carry out project as attached.

Thanking You,

Ferranded, for the band in

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Yours faithfully,

Soumya C

Principal English Roce

A Charleton dragalore

BUDGET ESTIMATE				
Bill No	Particulars	Amount		
1	Sample charcterisation	1368		
2	Chemicals	5298		
3	Project report	800		
4.	Travel +Miscellaneous	534		
	Grand total	8000		

Sathkedin College of Engineering of Sathked Rangelore 560 057 Road.



# RAGHAVENDRA SPECTRO METALLURGICAL LABORATORY

BILL

5668

Date: 11-Jul-2015

Page 1

of 1

Customer:

No.

ROHINI.S

SAPTHAGIRI COLLEGE OF ENGINEERING

Vendor:

Phone:

NT073

	Your Reference	D.C.No.		Qty.	Rate	Amount	
	Tour Reference						
		LT DT:10.07.2015		1	1200.00	1200.00	
3	TEXTILES WASTE WATER	ET D1.10.07.2010				1200.00	
	Sub Total	5	**			168.00	
	Add Service TaxRgn No.: AAEFR8971MST001 @14%	50				1368.00	
	Total (Rounded):			1			

for RAGHAVENDRA SPECTRO METALLURGICAL LABORATORY

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Sautheres Bandalore 260 021

# GRACE ENTERPRISES

Ph: 99163 56657

Suppliers of : Laboratory Equipments Sales & Services, Glass Wares & Plastics Wares & Chemicals								
#	101, 8th 'C' Cross, Venkatapura,	Bangalore - 560 03	34. E-mail	: graceenterp	risessam@	gmailcom		
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#### **Payment Voucher**

Mobile: 8892130893

the Gowda Main Road, 0 057.

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Dated

8-Aug-2015

Through: TGMC-103091002852

Particulars

: 1210

Amount

Account:

No.

KSCST( Project Work)

8,000.00

On Account of:

Being towards refund of KSCST expenses ( expenses incurred towards chemcials, Glass ware and Characterization of samples and report Preparation)

Bank Transaction Details:

Soumya C Cheque

8-Aug-2015

8,000.00

Sapthagthi college of engineering Tranc banka/c no.: 103091002852

Chq No. 8/2563 Date 20/8/15 Rs 8050

Prepared

Verified

Authorized Signatory

Amount (in words):

INR Eight Thousand Only

₹ 8,000.00 €

Receiver's Signature

Checked by

of its

Authorised Signatory

OCIATES SOLUTION OF CHARTERS

Zyw Zyw

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



SRI SRINIVASA EDUCATIONAL & CHARITABLE TRUST (R)

### SAPTHAGIRI COLLEGE OF ENGINEERING

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

### **KSCST PROJECTS**

#### UTILIZATION CERTIFICATE

KSCST Student project program 38th series - 2014-2015

Sl No	Title of the project	Amount	Certified that KSCST has
1	Estimation and de- identification of gender signature from finger prints	3000/-	provided partial financial support of RS 24000/- towards Biofuel and SPP student project program 38th
2	Fungallignin peroxidase for Bio Degradation of pulp paper and textile effluent	8000/-	Sum of Rs24000/- only has been utilize for the purpose Biofuel and SPP student project
3	Multipurpose measuring device using Bluetooth on ANDROID	6000/-	program for which it was sanction
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

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Septhagiri Colle

14/5, Chikkasandra, Hesaraghatta Main Road, Bançalore - 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



# SRI SRINIVASA EDUCATIONAL & CHARITABLE TRUST (R)

# SAPTHAGIRI COLLEGE OF ENGINEERING

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

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 feri

Signature of the Principal with seal

Signature of Auditor with seal

Sapthagiri College of Engineering Date: Chikkesandra, Hesaraghatta Main Road Bengaluru - 560 05"

1/

Date:

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

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