

## 3.2 Resource Mobilization for Research

### 3.2.2 Percentage of teachers having research projects during the last five years

#### 3.2.2.1: Number of teachers having research projects during the last five years

##### Details of the grant received for research projects

Academic Year	Number of research Projects	Number of Teachers	Number of Departments	Total Amount (In Lakhs)
2020-2021	03	05	02	19.620
2019-2020	02	03	02	0.1400
2018-2019	02	03	02	0.1800
2017-2018	04	04	01	16.245
2016-2017	06	04	04	2.1450
<b>Total</b>	<b>17</b>			<b>38.330</b>

## 2016-2017

Sl. No.	Name of the Project/ Endowments, Chairs	Name of the Principal Investigator/ Co Investigator	Name of the Funding agency	Type (Government/Non-Government)	Department of Principal Investigator/ Co Investigator	Year of Award	Funds provided (INR in lakhs)	Duration of the project
1.	Dynamics of men in Indian families- A study in Bangalore city	Uma Devi G A	UGC	Government	Sociology	2016	1.25	1.5 year

11

MLACW/17/2016-17 27/4/16.



विश्वविद्यालय अनुदान आयोग  
 मंत्रालय प्रादेशिक कार्यालय  
**UNIVERSITY GRANTS COMMISSION**  
 SOUTH WESTERN REGIONAL OFFICE  
 P.K. Block, Palace Road, Gandhinagar  
 Bangalore-560 022.  
 Phone : (080) 2220 8389 Fax : (080) 2228 8381

**APPROVAL LETTER**

2018-MRP/15-16/KABA029/UGC-SWRO

The Principal  
 MAHARANI LAKSHMI AMMANI COLLEGE FOR WOMEN  
 SCIENCE P.O., MALLESHWARAM  
 BANGALORE - 560 012

13.5 APR 2016 7

Sub: Financial Assistance to SHRIMS G.A. UMA DEVI, MAHARANI LAKSHMI AMMANI COLLEGE FOR WOMEN, SCIENCE P.O., MALLESHWARAM, BANGALORE for undertaking Minor Research Project in Sciences for the project entitled Changing dynamics of family and the role of men-a study on men in professional jobs.

Sir/Madam,  
 This is in reference to the proposal submitted by SHRIMS. G.A. UMA DEVI, Sociology, to UGC for financial assistance under the above scheme. The proposal was placed before an Expert Committee duly constituted for the purpose. Based on the recommendation of the committee and in accordance with the guidelines, the University Grants Commission has approved an amount of Rs. 125000/- for the aforesaid Minor Research Project as per details given below.

Items	Amount Recommended
<u>Non-Recurring:</u>	
Books and Journals	35000/-
<u>Recurring:</u>	
Contingency	25000/-
Fieldwork and Travel	25000/-
Any other	40000/-
<b>TOTAL :</b>	<b>125000/-</b>

On receipt of the Approval letter, the Principal Investigator should inform the undersigned of his/her consent to implement the project and send the Acceptance Certificate/Annexure-I) before 15.5.2016, otherwise it will be presumed that the Principal Investigator (PI) is not willing to implement the project and the approval will be withdrawn.

As the first instalment grant has been transferred to the College account, you are requested to ensure the following:-

1. The Principal Investigator may be asked to submit the enclosed acceptance certificate on or before 15.5.2016. If acceptance certificate is not submitted to this office before the given date, the Minor Research Project stands cancelled and it is the responsibility of the college to refund the amount through RTGS (Details of account given at para 9 of sanction letter).
2. The first instalment grant may be given to the Principal Investigator only after submission of acceptance certificate.  
 The grant is subject to the terms and conditions as per Xlth plan guidelines on Minor Research Project.

Encl: As above

Copy to:

SHRIMS. G.A. UMA DEVI  
 Department of Sociology  
 MAHARANI LAKSHMI AMMANI COLLEGE FOR WOMEN  
 SCIENCE P.O., MALLESHWARAM  
 BANGALORE - 560 012

Yours faithfully

*(Signature)*  
 (Dr.N. Gopukumar)  
 Joint Secretary

*(Signature)*  
 02/05/16  
 27/4/16

Sl. No.	Name of the Project/ Endowments, Chairs	Name of the Principal Investigator / Co Investigator	Name of the Funding agency	Type (Government/Non-Government)	Department of Principal Investigator / Co Investigator	Year of Award	Funds provided (INR in lakhs)	Duration of the project
2.	Role of ICT in Sustainable Growth of Entrepreneurship in Bangalore Rural District	Sushama Bavle	UGC	Government	Commerce	2016	0.5	1.5 year



ज्ञान - विज्ञान विमुक्तये

विश्वविद्यालय अनुदान आयोग  
केन्द्रीय प्रादेशिक कार्यालय  
**UNIVERSITY GRANTS COMMISSION**

SOUTH WESTERN REGIONAL OFFICE  
P.K. Block, Palace Road, Gandhinagar  
Bangalore-560 009.

Phone : (088) 2228 0300 Fax : (088) 2228 0381

**APPROVAL LETTER**

2016-MRPY15-16/KABA028/UGC-SWRO

Principal

MAHARANI LAKSHMI AMMANI COLLEGE FOR WOMEN  
SCIENCE P.O., MALLESHWARAM  
BANGALORE - 560 012

25 APR 2016

**Sub:** Financial Assistance to SHRIMS SUSHAMA BAVLE, MAHARANI LAKSHMI AMMANI COLLEGE FOR WOMEN, SCIENCE P.O., MALLESHWARAM, BANGALORE for undertaking Minor Research Project in Sciences for the project entitled ROLE OF ICT IN SUSTAINABLE GROWTH OF ENTREPRENEURSHIP IN BANGALORE RURAL DISTRICT

Sir/Madam,

This is in reference to the proposal submitted by SHRIMS. SUSHAMA BAVLE, COMMERCE, to UGC for financial assistance under the above scheme. The proposal was placed before an Expert Committee duly constituted for the purpose. Based on the recommendation of the committee and in accordance with the guidelines, the University Grants Commission has approved an amount of Rs. 50000/- for the aforesaid Minor Research Project as per details given below.

Items	Amount Recommended
<u>Non-Recurring:</u>	
Books and Journals	10000/-
<u>Recurring:</u>	
Contingency	10000/-
Fieldwork and Travel	30000/-
<b>TOTAL :</b>	<b>50000/-</b>

On receipt of the Approval letter, the Principal Investigator should inform the undersigned of his/her consent to implement the project and send the Acceptance Certificate (Annexure-I) before 15.5.2016, otherwise it will be presumed that the Principal Investigator (PI) is not willing to implement the project and the approval will be withdrawn.

As the first instalment grant has been transferred to the College account, you are requested to ensure the following:-

1. The Principal Investigator may be asked to submit the enclosed acceptance certificate on or before 15.5.2016. If acceptance certificate is not submitted to this office before the given date, the Minor Research Project stands cancelled and it is the responsibility of the college to refund the amount through RTGS (Details of account given at para 9 of sanction letter).
2. The first instalment grant may be given to the Principal Investigator only after submission of acceptance certificate.  
The grant is subject to the terms and conditions as per XIIth plan guidelines on Minor Research Project.

End: As above

Copy to

SHRIMS SUSHAMA BAVLE  
Department of COMMERCE  
MAHARANI LAKSHMI AMMANI COLLEGE FOR WOMEN  
SCIENCE P.O., MALLESHWARAM  
BANGALORE - 560 012

Yours faithfully

(Dr. N. Gopukumar)  
Joint Secretary

28/4/16

27/4/16

Sl. No.	Name of the Project/ Endowments, Chairs	Name of the Principal Investigator/ Co Investigator	Name of the Funding agency	Type (Government/Non-Government)	Department of Principal Investigator/ Co Investigator	Year of Award	Funds provided (INR in lakhs)	Duration of the project
2	An investigation into optimal biodiesel production from non-edible oil using microbial lipase and evaluation of physico-chemical parameters	Dr.Babitha B	KSCST	Government	Biotechnology	2016	0.1	3 months



MAWS/013/2016-17 26/4/16  
**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

6th April, 2016

Ref: 7.1.03/SPP/17

The Principal,  
Maharani Lakshmi Ammanni College For Women  
18th Cross, Malleshwaram,  
Bangalore - 560012

Dear Sir,

Sub : Sanction of Student Project (Biofuel)-39th Series : Year 2015-2016

**39S\_B\_MSC\_006**

Ref : Your Project Proposal entitled "

**An Investigation Into Optimal Biodiesel Production From Non-Edible Oil Using Microbial Lipase And Evaluation Of Physico-Chemical Parameters**

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

<b>Student / s</b>	Ms. Bhavana M. and others	<b>Budget</b>	<b>Amount (Rs)</b>
		Materials/Consumables	8,000.00
<b>Guide/s</b>	Mrs. Babitha B.	Labor	-
		Travel	1,000.00
<b>Department</b>	BIOTECHNOLOGY	Analysis	-
		Miscellaneous	500.00
		Report	500.00
		<b>TOTAL</b>	10,000.00
<b>Rupees</b>	<b>TEN THOUSAND</b>	<b>ZERO HUNDRED</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 **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)** 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. 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 needs to be returned back 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 [biofuelcell.kscst@gmail.com] and should include following :
  - Title of the project
  - Name of the College & Department

*S. G. Sreekanteswara Swamy*  
22/4/16



3) Name of the students & Guide(s)

39S\_B\_MSC\_006

4) 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**

**[biofuelcell.kscst@gmail.com]. 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.

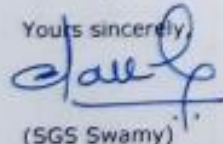
The amount sanctioned for the selected projects will be sent by cheque.

**The Mid term evaluation of the sponsored projects will be held in the month of May. The date and venue will be intimated shortly.**

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,



(SGS Swamy)

Copy to:

1) The Head of the Department of  
Biotechnology  
Maharani Lakshmi Ammanni College For Women  
18Th Cross, Malleshwaram,  
Bangalore - 560012

2) Mrs. Babitha B.  
Department of Biotechnology  
Maharani Lakshmi Ammanni College For Women  
18Th Cross, Malleshwaram,  
Bangalore - 560012

3) The Finance Officer, KSCST, Bangalore



Sl. No.	Name of the Project/ Endowments, Chairs	Name of the Principal Investigator/ Co Investigator	Name of the Funding agency	Type (Government/Non-Government)	Department of Principal Investigator/ Co Investigator	Year of Award	Funds provided (INR in lakhs)	Duration of the project
3.	Genetic modification of <i>Aspergillus niger</i> by induced mutagenesis for higher production of lipase	Dr.Babitha B	KSCST	Government	Biotechnology	2017	0.095	3 months



## 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

31st March, 2017

Ref: 7.1.03/SPP/1112

The Principal,  
Maharani Lakshmi Ammanni College For Women  
18th Cross, Malleshwaram,  
Bangalore - 560012

Dear Sir,

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

**40S\_B\_MSC\_003**

Ref : Your Project Proposal entitled " **GENETIC MODIFICATION OF ASPERGILLUS NIGER BY INDUCED MUTAGENESIS FOR HIGHER PRODUCTION OF LIPASE**

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

<b>Student / s</b>	MS. SUSHMITHA S. and others	<b>Budget</b>	<b>Amount (Rs)</b>
		Materials/Consumables	7,500.00
<b>Guide/s</b>	DR. BABITHA B.	Labor	-
		Travel	1,000.00
		Analysis	-
<b>Department</b>	Biotechnology	Miscellaneous	500.00
		Report	500.00
		<b>TOTAL</b>	<b>9,500.00</b>
	<b>Rupees Nine Thousand Five Hundred</b>		

The following are the guidelines to carryout the project work :

- The project should be carried out based on the objectives of the proposal sent by you.
- 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)
- The project report shall mention the name of "**Karnataka State Bioenergy 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.
- 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 [biofuelcell.kscst@gmail.com] and should include following :

- Title of the project
- Name of the College & Department

*S. G. Sreekanteswara Swamy*  
19/4/17.

Sl. No.	Name of the Project/ Endowments, Chairs	Name of the Principal Investigator/ Co Investigator	Name of the Funding agency	Type (Government/Non-Government)	Department of Principal Investigator/ Co Investigator	Year of Award	Funds provided (INR in lakhs)	Duration of the project
	Evaluation of Biopesticide properties of Azadirachta indica seed cake	Dr. Suneetha P Kuppal	KSCST	Government	Biochemistry	2016	0.1	3 months



**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

6th April, 2016

Ref: 7.1.03/SPP/17

The Principal,  
Maharani Lakshmi Ammanni College For Women  
18th Cross, Malleshwaram,  
Bangalore - 560012

Dear Sir,

Sub : Sanction of Student Project (Biofuel)-39th Series : Year 2015-2016

**39S\_B\_MSC\_005**

Ref : Your Project Proposal entitled " **Evaluation Of Biopesticide Properties Of Azadirachta Indica Seed Cake**

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

Student / s	Ms. Syeda Meraj Fatima and others	Budget	Amount (Rs)
Guide/s	Dr. Suneetha P.	Materials/Consumables	8,000.00
		Labor	500.00
		Travel	500.00
Department	BIOCHEMISTRY	Analysis	-
		Miscellaneous	500.00
		Report	500.00
		<b>TOTAL</b>	<b>10,000.00</b>
Rupees	<b>TEN THOUSAND</b>	<b>ZERO HUNDRED</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 **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)** 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. 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 needs to be returned back 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 [biofuelcell.kscst@gmail.com] and should include following :
  - Title of the project
  - Name of the College & Department

*S. S. S. S. S.*  
24/4/16.

Sl. No .	Name of the Project/ Endowments , Chairs	Name of the Principal Investigator / Co Investigator	Name of the Fundin g agency	Type (Government/Non -Government)	Department of Principal Investigator / Co Investigator	Year of Awar d	Funds provide d (INR in lakhs)	Duratio n of the project
	Evaluation of potential of generating electricity by geobactor species using sludge based microbial fuel	Dr. Suneetha P Kuppal	KSCST	Government	Biochemistr y	2016	0.1	3 months



## 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

31st March, 2017

Ref: 7.1.03/SPP/1112

The Principal,  
Maharani Lakshmi Ammanni College For Women  
18th Cross, Malleshwaram,  
Bangalore - 560012

Dear Sir,

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

**40S\_B\_MSC\_004**

Ref : Your Project Proposal entitled " **EVALUATING THE POTENTIAL OF GENERATING ELECTRICITY BY  
GEODACTOR SPECIES USING SLUDGE BASED MICROBIAL FUEL  
CELL**

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

Student / s	MS. RAKSHITHA NAGARAJU and others	Budget	Amount (Rs)
		Materials/Consumables	7,500.00
Guide/s	DR. SUNEETHA P.	Labor	1,000.00
		Travel	1,000.00
Department	Biochemistry	Analysis	-
		Miscellaneous	-
		Report	500.00
		TOTAL	10,000.00
Rupees Ten Thousand			

The following are the guidelines to carryout the project work :

- The project should be carried out based on the objectives of the proposal sent by you.
- 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)
- The project report shall mention the name of "**Karnataka State Bioenergy 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.
- 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 [biofuelcell.kscst@gmail.com] and should include following :
  - Title of the project
  - Name of the College & Department

*S. G. Sreekanteswara Swamy*  
19/4/17

**2017-2018**

Sl. No.	Name of the Project/ Endowments, Chairs	Name of the Principal Investigator/ Co Investigator	Name of the Funding agency	Type (Government/Non-Government)	Department of Principal Investigator/ Co Investigator	Year of Award	Funds provided (INR in lakhs)	Duration of the project
23	Isolation and characterization of Karanjin from Pongamia seed cake for insecticidal activity	Dr.Babitha B	KSCST	Government	Biotechnology	2018	0.115	3 months





MLACW/17/2018-19 24/4/18  
**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,  
Maharani Lakshmi Ammanni College For Women,  
18th Cross,  
Malleshwaram,  
Bengaluru - 560 012

Dear Sir,

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

Your Project Proposal Reference No. : **41S\_B\_MSC\_010**

Ref : Your Project Proposal entitled " **ISOLATION AND CHARACTERIZATION OF KARANJIN FROM PONGAMIA SEED CAKE FOR INSECTICIDAL ACTIVITY**

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. Chaitali Chandrashekhara	Budget	Amount (Rs)
	and others	Materials/Consumables	8,000.00
Guide/s	Dr. Babitha B.	Labor	1,500.00
		Travel	1,000.00
		Analysis	-
Department	Biotechnology	Miscellaneous	500.00
		Report	500.00
		<b>TOTAL</b>	<b>11,500.00</b>
		<b>RUPEES ELEVEN THOUSAND FIVE HUNDRED</b>	

The following are the guidelines to carryout the project work :

- The project should be carried out based on the objectives of the proposal sent by you.
- 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)
- The project report shall mention the name of "**Karnataka State Bioenergy 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.
- 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 [biofuelcell.kscst@gmail.com] and should include following :
  - Title of the project
  - Name of the College & Department

Sl. No.	Name of the Project/ Endowments, Chairs	Name of the Principal Investigator/ Co Investigator	Name of the Funding agency	Type (Government/Non-Government)	Department of Principal Investigator/ Co Investigator	Year of Award	Funds provided (INR in lakhs)	Duration of the project
	Effect of Natural Pigments on the growth of human cancerous cell lines and use of Foldscope as a screening tool	Dr. M Gowrineelima	DBT	Government	Biotechnology	2018 - 2019	8.0	1 Year

No. BT/IN/Indo-US/Foldscope/39/2015

Government of India  
Ministry of Science & Technology  
Department of Biotechnology

Block No.2, 6-8th Floors,  
CGO Complex, Lodi Road,  
New Delhi - 110 003.  
Dated: 20.03.2018

Admin Order

Sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rules, 1978, for the payment of **Rs.3120.00 Lakhs (Rupees Thirty One Crore Twenty Lakhs Only)** to Biotech Consortium India Limited (BCIL), 5<sup>th</sup> Floor, Anuvrat Bhawan, 210, Deen Dayal Upadhaya Marg, New Delhi - 110002 towards the "Towards disbursement of Micro grant for implementation of projects under the Foldscope scheme" as per break-up given below:

(Rs. in Lakhs)						
Sr. No.	Item	Number of Schools/ Colleges/ Institute/ University	Total budget per School/ Colleges/Institute/ University	Total Budget	1 <sup>st</sup> Installment (75%of total budget)	2 <sup>nd</sup> Installment (25%of total budget)
I	NER Schools (Category-A)	33	4.00	132.00	98.00	34.00
II	Other Regions of India Schools (Category-A)	84	4.00	336.00	252.00	84.00
III	NER Colleges/Institute / Universities (Category-B)	81	8.00	648.00	486.00	162.00
IV	Other Regions of India Colleges/Institute / Universities (Category-B)	247	8.00	1976.00	1483.00	493.00
Total (A)				3092.00	2319.00	773.00
V	Budget for the Project Secretariat to BCIL. (B)			28.00	28.00	0.00
Grand Total (A+B)				3120.00	2347.00	773.00*

\*The second installment will be released after the review of technical & scientific progress report and submission of UC/SE after 6 months.

- The list of approved School/Colleges/Institute/ Universities of category A & B may be seen at Annexure-I to IV.

3. The budget details for awardees under category 'A' and category 'B', and the budget breakup of Project Secretariat to BCIL, may be seen at **Annexure- V**.
4. The budget for Item-I [NER (Schools)] and Item-III [NER (Colleges/Institute/ University)] will be debitable by the NER budget head.
5. The budget for Item-II (Other Regions of India Schools), IV (Other Regions of India Colleges/Institute/ Universities) & V (Project Secretariat to BCIL, Detailed Budget for Category A &B) will be debitable from Biotechnology Research and Development (R&D) head.
6. The Foldscope and Micro grants shall be disbursed to the Schools, Colleges and Universities by the NER-BPMC/BCIL as per the **Annexure-I to V**.
7. **Time Schedule:** The duration of the project is 1 Year 0 Month from the date of this sanction order.
8. The expenditure involved is debitable to:

<b>Demand No. 85</b>	<b>Department of Biotechnology</b>
<b>3425</b>	<b>Other Scientific Research 2017-2018</b>
<b>3425.60</b>	<b>Others (Sub Major Head)</b>
<b>3425.60.200</b>	<b>Assistance to other Scientific Bodies (Minor Head)</b>
<b>3425.60.200.29</b>	<b>Biotechnology Research and Development</b>
<b>3425.60.200.29.17</b>	<b>Assistance for Research and Development</b>
<b>3425.60.200.29.17.31</b>	<b>Grants-in-aid General</b>

9. The other terms and conditions governing this sanction are attached at **Annexure- VI**.
10. A Memorandum of Agreement (MoA) will be signed between the Department of Biotechnology and the grantee institution on Non-Judicial stamp paper Rs. 100/- in the enclosed format and the second release/installment will be made only after signing of MoA by the grantee institutions and its acceptance by DBT. In case of NGO or Private Institution, MOA signed is mandatory first release.
11. The Institute/Agency will keep the whole of the grant in a Bank Account earning interest, and the interest so earned should be reported to DBT in the Utilization Certificate and Statement of Expenditure. The Interest so earned will be treated as created to the institute/Agency and shall be adjusted towards further installment of the grant and or at the time of Final Settlement of Accounts.
12. No International Travel will be undertaken from the sanctioned project grant unless specified otherwise.
13. The Managing Director, Biotech Consortium India Limited (BCIL), 5<sup>th</sup> Floor, Anuvrat Bhawan, 210, Deen Dayal Upadhyaya Marg, New Delhi - 110002 would be responsible for submission of Statements of Expenditure (SoE), utilization certificates (UC), Assets Certificates, Manpower staffing & expenditure details in prescribed DBT formats to DBT in respect of grants released in this project from time to time.

14. As per Rule 236 (1) of GFR 2017, the accounts of all Grantee Institutions or Organizations shall be open to inspection by the sanctioning authority and audit, both by the Comptroller and Auditor General of India under the provision of CAG(DPC) Act 1971 and internal audit by the Principal Accounts Office of the Ministry or Department, whenever the Institution or Organization is called upon to do so.
15. In case the whole or a part of the amount of the grant-in-aid is being refunded, an interest thereon as per Govt. of India shall be recovered.
16. As per Ministry of Finance OM. No. C-13015(34)/MF CGA/PFMS/Misc/2014-15/2095-2127 dated 03.03.2015 all transaction involving cash component has to be made through Public Financial Management System (PFMS) w.e. 01.04.2015 to each beneficiaries.
17. UC/SE must show all the heads as per the sanction order.
18. This issues under the powers delegated to this Department and with the concurrence of IFD, DBT vide their **SAN. No. 102/IFD/SAN/4849/2017-18 dated 16.03.2018.**
19. This sanction order has been noted at Serial No.      in the Register of Grants.

*Vaishali Panjabi*  
(Vaishali Panjabi)  
Scientist 'D'

To,  
The Pay & Accounts Officer  
Department of Biotechnology  
Ministry of Science & Technology  
Lodhi Road, New Delhi-110 003

**Copy to:-**

1. The Principal Director of Audit (Scientific Departments), AGCR Building, New Delhi-110002.
2. The Pay & Accounts Officer, Department of Science & Technology, New Delhi-110016.
3. Cash Section, DBT. (2 copies).
4. IFD, DBT.
5. The Managing Director, Biotech Consortium India Limited (BCIL), 5<sup>th</sup> Floor, Anuvrat Bhawan, 210, Deen Dayal Upadhaya Marg, New Delhi - 110002
6. Sanction Folder.
7. **US (IFD) to re-appropriate the budget for Item -I & III from the NER Budget.**

*Vaishali Panjabi*  
(Vaishali Panjabi)  
Scientist 'D'



97.	Dr. Meganathan P. R	CSIR-National Environmental Engineering Research Institute (NEERI)	Telangana
98.	Dr K Sasidaran	Dr Mehta's Hospital & Medical Trust	Chennai , Tamil Nadu
99.	Dr.Sanjaya Shankar Tripathy	Birla Institute Of Technology	Mesra, Jharkhand
100.	Dr. S.T.V. Raghavamma	Chalapathi Institute Of Pharmaceutical Sciences	Guntur, Andhra Pradesh
101.	Dr. Jeewan Singh Titiyal	Dr. Rajendra Prasad Centre for Ophthalmic Sciences	Ansari Nagar, New Delhi
102.	Dr. Gowri Neeelima	Maharani Lakshmi Ammani College For Women	Bengaluru-, Karnataka
103.	Ms. V.D.Jadhav	SVERI's College of Engineering	Solapur, Maharashtra
104.	Vivek Singh	King George's Medical University	Lucknow, Uttar Pradesh
105.	Saba Ubaid	King George's Medical University	Lucknow, Uttar Pradesh
106.	Dr. H. Shakila	Madurai Kamaraj University	Madurai, Tamil Nadu
<b>Area: Environment and pollution</b>			
107.	K. M. Raghu	K.S.R. College of Engineering	Tiruchengode , Tamil Nadu
108.	Dr. Gayathri N.	The D. G. Ruparel College of Arts, Science and Commerce	Mahim , Maharashtra
109.	Prof. Dipalee Malkhede	Pune University	Pune, Maharashtra
110.	Dr. Kalawati Saini	Miranda House, University of Delhi	Delhi
111.	Dr. P. Venkatakrishnan	CMR Technical Campus	Telangana
112.	Kamalika Banerjee	Indian Institute of Technology	Delhi
113.	N. Prathibha	BMS college of Engineering	Bangalore, Karnataka
114.	Dr.E.Muthu Kumaran	Dr.B.R.Ambedkar Institute of Technology	A&N Islands
115.	Dr.P Gautam	Anna university	Chennai , Tamil Nadu
116.	Valencia D'souza	National Facility for Biopharmaceuticals, Guru Nanak Khalsa College of Arts, Science & Commerce	Mumbai, Maharashtra
117.	Dr. Subhashree Ghosh	KME Society's - G.M. Momin Women's College	Bhiwandi, Maharashtra
118.	Madhamanchi Pradeep	Government Degree College (Men)	Andhra Pradesh
119.	Dr. Irfan Ahmad	Sher-e-Kashmir university of agricultural sciences & technology of kashmir.(skuast.k)	Jammu & kashmir
120.	Mr. S. Naga Vignesh	Sri Venkateswara College of Engineering	Pennalur ,Tamil Nadu
<b>Area: Sanitation</b>			
121.	Dr.Vipulkumar Prahladbhai Patel	Sanjivani College of Pharmaceutical Education and Research	Sahajanandnagar, Maharashtra
122.	Prof. Sangita Saini	Dayalbagh Educational Institute	Agra, Uttar Pradesh
123.	Dr. Vishnu Agarwal	Motilal Nehru National Institute of Technology	Allahabad, Uttar Pradesh

Sl. No.	Name of the Project/ Endowments, Chairs	Name of the Principal Investigator/ Co Investigator	Name of the Funding agency	Type (Government/Non-Government)	Department of Principal Investigator/ Co Investigator	Year of Award	Funds provided (INR in lakhs)	Duration of the project
10	Employability of foldscope in detection of malarial parasites	Dr. Jolitha	Ministry of science and technology, department of biotechnology	Government	Biotechnology	2019	8.0	1 year



No. BT/IN/Indo-US/Foldscope/39/2015

Government of India  
Ministry of Science & Technology  
Department of Biotechnology

Block No.2, 6-8th Floors,  
CGO Complex, Lodi Road,  
New Delhi - 110 003.  
Dated: 20.03.2018

Admin Order

Sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rules, 1978, for the payment of **Rs.3120.00 Lakhs (Rupees Thirty One Crore Twenty Lakhs Only)** to Biotech Consortium India Limited (BCIL), 5<sup>th</sup> Floor, Anuvrat Bhawan, 210, Deen Dayal Upadhaya Marg, New Delhi - 110002 towards the **"Towards disbursement of Micro grant for implementation of projects under the Foldscope scheme"** as per break-up given below:

(Rs. in Lakhs)						
Sr. No.	Item	Number of Schools/ Colleges/ Institute/ University	Total budget per School/ Colleges/Institute/ University	Total Budget	1 <sup>st</sup> Installment (75%of total budget)	2 <sup>nd</sup> Installment (25%of total budget)
I	NER Schools (Category-A)	33	4.00	132.00	98.00	34.00
II	Other Regions of India Schools (Category-A)	84	4.00	336.00	252.00	84.00
III	NER Colleges/Institute / Universities (Category-B)	81	8.00	648.00	486.00	162.00
IV	Other Regions of India Colleges/Institute / Universities (Category-B)	247	8.00	1976.00	1483.00	493.00
Total (A)				3092.00	2319.00	773.00
V	Budget for the Project Secretariat to BCIL. (B)			28.00	28.00	0.00
Grand Total (A+B)				3120.00	2347.00	773.00*

\*The second installment will be released after the review of technical & scientific progress report and submission of UC/SE after 6 months.

- The list of approved School/Colleges/Institute/ Universities of category A & B may be seen at Annexure-I to IV.

3. The budget details for awardees under category 'A' and category 'B', and the budget breakup of Project Secretariat to BCIL, may be seen at **Annexure- V**.
4. The budget for Item-I [NER (Schools)] and Item-III [NER (Colleges/Institute/ University)] will be debitible by the NER budget head.
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6. The Foldscope and Micro grants shall be disbursed to the Schools, Colleges and Universities by the NER-BPMC/BCIL as per the **Annexure-I to V**.
7. **Time Schedule:** The duration of the project is 1 Year 0 Month from the date of this sanction order.
8. The expenditure involved is debitible to:

<b>Demand No. 85</b>	<b>Department of Biotechnology</b>
<b>3425</b>	<b>Other Scientific Research 2017-2018</b>
<b>3425.60</b>	<b>Others (Sub Major Head)</b>
<b>3425.60.200</b>	<b>Assistance to other Scientific Bodies (Minor Head)</b>
<b>3425.60.200.29</b>	<b>Biotechnology Research and Development</b>
<b>3425.60.200.29.17</b>	<b>Assistance for Research and Development</b>
<b>3425.60.200.29.17.31</b>	<b>Grants-in-aid General</b>

9. The other terms and conditions governing this sanction are attached at **Annexure- VI**.
10. A Memorandum of Agreement (MoA) will be signed between the Department of Biotechnology and the grantee institution on Non-Judicial stamp paper Rs. 100/- in the enclosed format and the second release/installment will be made only after signing of MoA by the grantee institutions and its acceptance by DBT. In case of NGO or Private Institution, MOA signed is mandatory first release.
11. The Institute/Agency will keep the whole of the grant in a Bank Account earning interest, and the interest so earned should be reported to DBT in the Utilization Certificate and Statement of Expenditure. The interest so earned will be treated as created to the institute/Agency and shall be adjusted towards further installment of the grant and or at the time of Final Settlement of Accounts.
12. No International Travel will be undertaken from the sanctioned project grant unless specified otherwise.
13. The Managing Director, Biotech Consortium India Limited (BCIL), 5<sup>th</sup> Floor, Anuvrat Bhawan, 210, Deen Dayal Upadhyaya Marg, New Delhi - 110002 would be responsible for submission of Statements of Expenditure (SoE), utilization certificates (UC), Assets Certificates, Manpower staffing & expenditure details in prescribed DBT formats to DBT in respect of grants released in this project from time to time.

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15. In case the whole or a part of the amount of the grant-in-aid is being refunded, an interest thereon as per Govt. of India shall be recovered.
16. As per Ministry of Finance OM. No. C-13015(34)/MF CGA/PFMS/Misc/2014-15/2095-2127 dated 03.03.2015 all transaction involving cash component has to be made through Public Financial Management System (PFMS) w.e. 01.04.2015 to each beneficiaries.
17. UC/SE must show all the heads as per the sanction order.
18. This issues under the powers delegated to this Department and with the concurrence of IFD, DBT vide their SAN. No. 102/IFD/SAN/4849/2017-18 dated 16.03.2018.
19. This sanction order has been noted at Serial No.      in the Register of Grants.

*Vaishali Panjabi*  
(Vaishali Panjabi)  
Scientist 'D'

To,  
The Pay & Accounts Officer  
Department of Biotechnology  
Ministry of Science & Technology  
Lodhi Road, New Delhi-110 003

**Copy to:-**

1. The Principal Director of Audit (Scientific Departments), AGCR Building, New Delhi-110002.
2. The Pay & Accounts Officer, Department of Science & Technology, New Delhi-110016.
3. Cash Section, DBT. (2 copies).
4. IFD, DBT.
5. The Managing Director, Biotech Consortium India Limited (BCIL.), 5<sup>th</sup> Floor, Anuvrat Bhawan, 210, Deen Dayal Upadhaya Marg, New Delhi - 110002
6. Sanction Folder.
7. US (IFD) to re-appropriate the budget for Item -I & III from the NER Budget.

*Vaishali Panjabi*  
(Vaishali Panjabi)  
Scientist 'D'

		Institute	
<b>Area: Human Health</b>			
68.	Prof. Phani Kumar Pullela	CMR Institute Of Technology	Bangalore, Karnataka
69.	Dr. Aravind Kumar Rengan	Indian Institute of Technology - Hyderabad	Telangana, Andhra Pradesh
70.	Dr. Qazi Danish Mushtaq	Govt. Sri Pratap (S.P.) College	Srinagar, Jammu & Kashmir
71.	Dr. Abhay Gaidhane	Datta Meghe Institute of Medical Sciences	Maharashtra
72.	Dr. Kapildeo Prasad	Thakur Prasad College	Madhepura, Bihar
73.	Dr. P. Annapoorani	V.V. Vanniaperumal College for Women	Virudhunagar, Tamil Nadu
74.	Dr. Guruvayoorappan. C	Regional Cancer Centre, Medical College Campus	Thiruvananthapuram, Kerala
75.	Prof. Satpal Singh Bisht	Kumaun University	Nainital, Uttaranchal
76.	Dr. K. Vijaya Rachel	Gitam University	Visakhapatnam, Andhra Pradesh
77.	Dr. Ratna Kumari	KIIT School of Biotechnology (KSBT)	Bhubaneswar, Odisha
78.	Dr. Tuhina Banerjee	Institute of Medical Sciences, Banaras Hindu University	Varanasi, Uttar Pradesh
79.	Dr. Purna Diwan	Ram Lal Anand College	New Delhi
80.	Dr. Subarna Bhattacharyya	Jadavpur University	Jadavpur, West Bengal
81.	Dr. Sunil Kumar D	JSS Medical College	Mysuru, Karnataka
82.	Dr. Justy Antony	St John's Research Institute	Bangalore, Karnataka
83.	Dr. K Sasidaran	Dr Mehta's Hospital & Medical Trust	Tamil Nadu
84.	Dr. Ashish Pathak	R. D. Gardi Medical College	Ujjain, Madhya Pradesh
85.	Dr. Devarshi Gajjar	The Maharaja Sayajirao University of Baroda	Vadodara, Gujarat
86.	Dr. Jolitha. A. B	Maharani Lakshmi Ammanni College for women	Bengaluru, Karnataka
87.	Dr. Aneesh E M	St. Joseph's College	Thrissur, Kerala
88.	Dr. T. Karuna	All India Institute of Medical Sciences Bhopal	Bhopal, Madhya Pradesh
89.	Dr. M. Abdul Kareem	Indira Gandhi National Open University	Maidan Garhi, New Delhi
90.	Dr. Siddharth	Foresight Biotech Pvt Ltd	Noida, Uttar Pradesh
91.	Dr. Arindam Biswas	Indian Institute of Engineering Science and Technology	Shibpur, West Bengal
92.	Dr. Balu P.S.	JJM Medical College	Davangere, Karnataka
93.	Dr. M. Nalini	Poompuhar College	Melaiyur, Tamil Nadu
94.	Rupa Nagar	CSIR-Institute of Microbial Technology	Chandigarh, Punjab
95.	Dr. Anil Kumar	Government V.Y.T.PG. Autonomous College	Durg, Chhattisgarh
96.	Dr. Hemand Aravind	St Berchmans College	Changanassery, Kerala

Sl. No.	Name of the Project/ Endowments, Chairs	Name of the Principal Investigator/ Co Investigator	Name of the Funding agency	Type (Government/Non-Government)	Department of Principal Investigator/ Co Investigator	Year of Award	Funds provided (INR in lakhs)	Duration of the project
	Strain improvement of penicillium species for the high yield production of extracellular lipase	Dr. Suneetha P Kuppal	KSCST	Government	Biochemistry	2017 - 2018	0.13	3 months





MAACW/17/2018-19. 24/4/18.  
**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,  
Maharani Lakshmi Ammanni College For Women,  
18th Cross,  
Malleshwaram,  
Bengaluru - 560 012

Dear Sir,

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

Your Project Proposal Reference No. : **41S\_B\_MSC\_023**

Ref : Your Project Proposal entitled \* **STRAIN IMPROVEMENT OF PENICILLIUM SPECIES FOR THE HIGH YIELD PRODUCTION OF EXTRACELLULAR LIPASE**

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:

<b>Student / s</b>	Ms. Shabana Begum	<b>Budget</b>	<b>Amount (Rs)</b>
	and others	Materials/Consumables	10,000.00
<b>Guide/s</b>	Dr. Suneetha P	Labor	1,000.00
		Travel	1,000.00
		Analysis	-
<b>Department</b>	Biochemistry	Miscellaneous	500.00
		Report	500.00
		<b>TOTAL</b>	<b>13,000.00</b>
	<b>RUPEES THIRTEEN THOUSAND</b>		

The following are the guidelines to carryout the project work :

- The project should be carried out based on the objectives of the proposal sent by you.
- 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)
- The project report shall mention the name of "**Karnataka State Bioenergy 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.
- 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 [biofuelcell.kscst@gmail.com] and should include following :
  - Title of the project
  - Name of the College & Department

**2018-19**

Sl. No.	Name of the Project/ Endowments, Chairs	Name of the Principal Investigator/ Co Investigator	Name of the Funding agency	Type (Government/Non-Government)	Department of Principal Investigator/ Co Investigator	Year of Award	Funds provided (INR in lakhs)	Duration of the project
9.	Synthesis and characterization of bio-adsorbent from <i>Pongamia</i> seed shell for heavy metal removal from Industrial effluents	Dr.Babitha B/ Dr. Sunitha Kuppal	KSCST	Government	Biotechnology/ Biochemistry	2019	0.1	3 months





# 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,  
Maharani Lakshmi Ammanni College For Women,  
18th Cross, Malleshwaram,  
Bengaluru - 560 012

Dear Sir/Madam,

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

Your Project Proposal Reference No. : 42S\_B\_MSC\_001

Ref : Your Project Proposal entitled "

**SYNTHESIS AND CHARACTERIZATION OF BIOADSORBENT  
FROM PONGAMIA SEED SHELL FOR HEAVY METAL REMOVAL  
FROM INDUSTRIAL EFFLUENTS**

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

Student / s	Ms. Nethra L and others	Budget	Amount (Rs)
		Materials/Consumables	5,000.00
Guide/s	Dr. Babitha.B Dr. Sunitha Kuppal	Labor	1,000.00
		Travel	1,000.00
Department	Biotechnology	Analysis	1,000.00
		Miscellaneous	1,500.00
		Report	500.00
		TOTAL	10,000.00
RUPEES TEN THOUSAND 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.
- The project report shall mention the name of "**Karnataka State Bioenergy 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.
- 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 [biofuelcell.kscst@gmail.com] 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)

425\_B\_MSC\_001

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

#### ADSORPTION KINETIC STUDIES

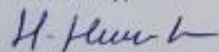
The sanctioned amount will be sent through NEFT by Accounts Department. Please furnish the bank account details as per the format enclosed with this letter.

**The dates of Mid term evaluation of the sponsored projects 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,



(H. Hemanth Kumar)

Copy to:

- 1) The Head of the Department of  
Biotechnology  
Maharani Lakshmi Ammanni College For Women,  
18Th Cross, Malleshwaram,  
Bengaluru - 560 012

- 2) Dr. Babitha.B  
Department of Biotechnology  
Maharani Lakshmi Ammanni College For Women,  
18Th Cross, Malleshwaram,  
Bengaluru - 560 012

- 3) The Finance Officer, KSCST, Bangalore

Encl: As Above

Sl. No.	Name of the Project/ Endowments, Chairs	Name of the Principal Investigator/ Co Investigator	Name of the Funding agency	Type (Government/Non-Government)	Department of Principal Investigator/ Co Investigator	Year of Award	Funds provided (INR in lakhs)	Duration of the project
27	Production of lipase by solid-state fermentation of biofuel seed cakes and its use as a biocatalyst in biodiesel production	Dr. S.Saraswati/ Dr. Suneetha P. Kuppal	KSCST	Government	Biotechnology / Biochemistry	2019	0.08	3 months



# 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

27th March 2019

Ref: 7.1.01/SPP/1333

The Principal,  
Maharani Lakshmi Ammanni College For Women,  
18th Cross, Malleshwaram,  
Bengaluru - 560 012

Dear Sir/Madam,

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

Your Project Proposal Reference No. : 42S\_B\_MSC\_002

Ref : Your Project Proposal entitled "

**PRODUCTION OF LIPASE BY SOLID-STATE FERMENTATION  
OF BIOFUEL SEED CAKES AND ITS USE AS A BIOCATALYST  
IN BIODIESEL PRODUCTION**

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

Student / s	Ms.Yashaswini.N and others	Budget	Amount (Rs)
		Materials/Consumables	4,000.00
Guide/s	Dr.S.Saraswati Dr. Suneetha.P	Labor	500.00
		Travel	1,000.00
		Analysis	500.00
Department	Biotechnology	Miscellaneous	1,500.00
		Report	500.00
		<b>TOTAL</b>	<b>8,000.00</b>
	<b>RUPEES EIGHT THOUSAND 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.
- The project report shall mention the name of "Karnataka State Bioenergy 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.
- 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 [biofuelcell.kscst@gmail.com] 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 (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 following are the extract of comments / suggestions made by expert. The students and project guides are hereby directed to implement the same and will be looked into during evaluation of the project.

IMPORTANT FACTOR AFFECTING THE PRODUCTION OF SSF IN LIPASE

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 dates of Mid term evaluation of the sponsored projects 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,

  
(H. Hemanth Kumar)

Copy to:

1) The Head of the Department of  
Biotechnology  
Maharani Lakshmi Ammanni College For Women,  
18Th Cross, Malleshwaram,  
Bengaluru - 560 012

2) Dr.S.Saraswati  
Department of Biotechnology  
Maharani Lakshmi Ammanni College For Women,  
18Th Cross, Malleshwaram,  
Bengaluru - 560 012

3) The Finance Officer, KSCST, Bangalore

Encl: As Above

Sl. No.	Name of the Project/ Endowments, Chairs	Name of the Principal Investigator/ Co Investigator	Name of the Funding agency	Type (Government/Non-Government)	Department of Principal Investigator/ Co Investigator	Year of Award	Funds provided (INR in lakhs)	Duration of the project
	Production of second generation bioethanol using thermophilic cellulolytic bacteria and thermotolerant yeast	Dr. S.Saraswati	KSCST	Government	Biotechnology	2020	0.07	3 months

2019-20



## 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)

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

Ref: 7.1.01/SPP/953

16th March 2020

The Principal,  
Maharani Lakshmi Ammanni College for Women,  
Bengaluru - 560 012.

Dear Sir/Madam,

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

Your Project Proposal Reference No. : **43S\_MSC\_023**

Ref : Your Project Proposal entitled "**PRODUCTION OF SECOND GENERATION BIOETHANOL USING THERMOPHILIC CELLULOLYTIC BACTERIA AND THERMOTOLERANT YEAST**"

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:

Student / s	Ms. Anitha Shree.S	Budget	
		Particulars	Amount (Rs.)
	Ms. Nisha Singh. A		
	Ms. Vinodhini.V	Materials/Consumables	5,000.00
	-	Labour	500.00
	-	Travel	500.00
Guide/s	Dr. S. Saraswati	Miscellaneous	500.00
	-	Report	500.00
Department	Biotechnology	Total	7,000.00
Seven Thousand 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 :
  - 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.

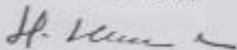
The sanctioned amount will be sent through crossed cheque to the Principal. Please furnish the bank account details as per the format enclosed with this letter.

**The sponsored projects evaluation will be held in the Nodal Centre and the details of the nodal centre will be intimated shortly by 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  
Biotechnology  
Maharani Lakshmi Ammanni College For Women,  
Bengaluru - 560 012.
- 2) Dr. S. Saraswati  
Department of Biotechnology  
Maharani Lakshmi Ammanni College For Women,  
Bengaluru - 560 012.
- 3) The Finance Officer, KSCST, Bengaluru

Encl: As Above

Sl. No.	Name of the Project/ Endowments, Chairs	Name of the Principal Investigator/ Co Investigator	Name of the Funding agency	Type (Government/Non-Government)	Department of Principal Investigator/ Co Investigator	Year of Award	Funds provided (INR in lakhs)	Duration of the project
	MOLECULAR MODELING AND DOCKING OF GC-MS DERIVED COMPOUNDS FROM PUNICA GRANATUM PEEL- INVESTIGATING A LEAD IN WASTE FOR CANCER	Dr. Sushil Kumar Middha/Ms Usha Talembedu	DBT	Government	Biotechnology / Biochemistry	2020	0.07	3 months

### KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science Campus, Bengaluru – 560 012

Website: <http://www.ksct.iisc.ernet.in/spp.html> || Email: [spp@ksct.iisc.ernet.in](mailto:spp@ksct.iisc.ernet.in) || Phone: 080-23600978

#### 43<sup>rd</sup> Series of Student Project Programme: 2019-20

#### LIST OF PROJECTS SANCTIONED AND DETAILS OF RELEASE OF SANCTIONED AMOUNT AFTER ONLINE EVALUATION OF PROJECTS

##### 89) MAHARANI LAKSHMI AMMANI COLLEGE FOR WOMEN, BENGALURU

Sl. No.	PROJECT REFERENCE NO.	PROJECT TITLE	BRANCH	DEGREE	NAME OF THE GUIDE(S)	NAME OF THE STUDENTS	SANCTIONED AMOUNT (In Rs.)	STATUS OF PROJECT	BALANCE AMOUNT RELEASED AFTER EVALUATION
495.	43S_MSC_010	MOLECULAR MODELING AND DOCKING OF GC-MS DERIVED COMPOUNDS FROM PUNICA GRANATUM PEEL- INVESTIGATING A LEAD IN WASTE FOR CANCER	BIOTECHNOLOGY	M.Sc	Dr. SUSHIL KUMAR MIDDHA Dr. USHA TALAMBEDU	Ms. CHARU PAREEK Ms. JAVERIYA TASNEEM Ms. SHIVANI SUKHALIA Ms. ALVANDAR SREE VYSHNAVI	7000.00	COMPLETE	3500.00
496.	43S_MSC_023	PRODUCTION OF SECOND GENERATION BIOETHANOL USING THERMOPHILIC CELLULOLYTIC BACTERIA AND THERMOTOLERANT YEAST	BIOTECHNOLOGY	M.Sc	Dr. S. SARASWATI	Ms. ANITHA SHREE S Ms. NISHA SINGH. A Ms. VINODHINI.V	7000.00	COMPLETE	3500.00

#### NEFT TRANSACTION DETAILS OF SPONSORED PROJECTS UNDER 43<sup>RD</sup> SERIES OF STUDENT PROJECT PROGRAMME

Sl. No.	Name of the College	Total No. of Projects Sanctioned	Total Project Grant Sanctioned (Rs.)	BATCH 1 (Amount released before evaluation)				BATCH 2 (Amount released after evaluation)			
				Project Grant Released (Rs.)	Total No. of Projects Sanctioned	Transaction ID	Transaction Date	Project Grant Released (Rs.)	Total No. of Projects Sanctioned	Transaction ID	Transaction Date
89	MAHARANI LAKSHMI AMMANI COLLEGE FOR WOMEN, BENGALURU	2	14,000	7,000	2	P20060399563651	03-06-2020	7,000	2	P20091852178594	18-09-2020

**2020-2021**

Sl. No.	Name of the Project/ Endowments, Chairs	Name of the Principal Investigator/ Co Investigator	Name of the Funding agency	Type (Government /Non-Government)	Department of Principal Investigator/ Co Investigator	Year of Award	Funds provided (INR in lakhs)	Duration of the project
	Expression pattern of defensin in biobased tomato plants in tomato mosaic treated virus plants	Dr. M Gowrineelima/ Dr. Jolitha AB	KSCST	Government	Biotechnology	2021	0.08	3 months



## Karnataka State Council for Science and Technology

(An autonomous organisation under the Dept. of Science & Technology, Govt. of Karnataka)

Indian Institute of Science Campus, Bengaluru - 560 012

Telephone: 080-23341652, 23348848, 23348849, 23348840

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

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

7th April 2021

Ref: 7.1.01/SPP/10

The Principal  
Maharani Lakshmi Ammanni College for Women  
18th Cross Road, Malleshwaram  
Bengaluru - 560 012

Dear Sir/Madam,

Sub : Sanction of Student Project - 44th Series: Year 2020-2021

Your Project Proposal Reference No. : **44S\_MSC\_070**

Ref : Your Project Proposal entitled " **EXPRESSION PATTERN OF DEFENSINS IN BIOBASED TREATED TOMATO PLANTS INFECTED WITH TOMATO MOSAIC VIRUS**

We are pleased to inform that your student project proposal referred above, has been approved by the Council under "Student Project Programme - 44th Series" with a budgetary break-up as detailed below:

Students	Ms. Chaitra R	Budget	
	Ms. Bindu S	Particulars	Amount (Rs)
	Ms. Neetha V	Materials/Consumables	6,000.00
	Ms. Meghana K	Labour	500.00
Guide/s	Dr. M Gowri Neelima	Travel	500.00
	Dr. Jolitha A B	Miscellaneous	500.00
Department	Biotechnology	Report	500.00
		Total	8,000.00
EIGHT THOUSAND 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 softcopy of the full report in a CD (single file .pdf format only) 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 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.)**

**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.**

*QUANTITATIVE RT-PCR ANALYSIS OF TMV. DETERMINATION OF ENZYMES ACTIVITY AND PEOTIEN CONTENT*

The sanctioned amount will be sent to the Principal / Head of the Institute by NEFT details provided by the college/institution.

**The sponsored projects evaluation will be held in the Nodal Centre /online platform and the details of the same 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 (by email):

1) Dr. M Gowri Neelima  
SPP Coordinator  
Maharani Lakshmi Ammanni College For Women  
18Th Cross Road, Malleshwaram  
Bengaluru - 560 012

2) Dr. M Gowri Neelima  
Department of Biotechnology  
Maharani Lakshmi Ammanni College For Women  
18Th Cross Road, Malleshwaram  
Bengaluru - 560 012

3) The Finance Officer, KSCST, Bengaluru

Encl: As Above

Sl. No.	Name of the Project/ Endowments, Chairs	Name of the Principal Investigator/ Co Investigator	Name of the Funding agency	Type (Government/Non-Government)	Department of Principal Investigator/ Co Investigator	Year of Award	Funds provided (INR in lakhs)	Duration of the project
	Characterization of antimicrobial activity garbage ferments	Dr. Saraswathi	DST-KSTA	Government	Department of Biotechnology	2022	0.3	6 months





# KARNATAKA SCIENCE AND TECHNOLOGY ACADEMY

Dept. of Science and Technology, Govt. of Karnataka

"Prof. U R Rao Bhavan" GKVK Campus, Major Sandeep Unnikrishnan Road, Doddabettahalli Layout,  
Vidyaranya Post, Bengaluru - 560097; Ph: +91-80-29721549; 29721550 Email: [ksta.gok@gmail.com](mailto:ksta.gok@gmail.com);  
Website: [kstacademy.in](http://kstacademy.in)

**Dr. A M Ramesh**  
Chief Executive Officer

KSTA/STS/LTR.NO.2/31/2021-22/

April 19, 2022

Dear Dr Saraswati,

*Greetings from Karnataka Science and Technology Academy!*

I am happy to inform you that your proposal was evaluated by a panel of experts based on the criteria already specified on March 26, 2022. The committee has recommended partial funding of **Rs. 30,000/- (Rupees Thirty Thousand Only)** for the project titled **"Characterization of antimicrobial activity garbage ferments"** with the following terms and conditions.

- The fund amount shall be spent for the project within the specified time of 6 months.
- The proposer should complete the project within the specified time. In case of any deputation/transfer/resignation of the proposer the Principal/Management should take responsibility of completing the project or to return grants to KSTA with interest.
- The Proposer who is under Internship must complete the project before completing the Intern.
- Any portion of the fund which is not required for expenditure for the approved purpose shall be duly returned to KSTA.
- Statement of Expenditure and Utilization certificate are to be submitted to KSTA within six months.
- KSTA, being a Government Agency, accounts are subject to verification by C&AG. Hence, expenditure should be according to Govt. rules and regulations.
- The grantee should publish a paper in a reputed journal and submit the same to KSTA.
- KSTA should be given due acknowledgement for any innovations/patents, arising out of the project sponsored by KSTA.

The grant amount has been transferred to your institutional account with the transaction ID No: **SBIN322103290420** dated: **13/04/2022** as provided by you.

Kindly acknowledge the receipt of the amount.

Thanking you,

Yours Sincerely,

[A M Ramesh]

**Dr. S Saraswati**

Maharani Lakshmi Ammanni College for Women (Autonomous)  
18<sup>th</sup> Cross, Science Post, Malleswaram, Bengaluru - 560012

CC: **Principal, Maharani's Lakshmi Ammanni College for Women (Autonomous), 18<sup>th</sup> Cross, Science Post, Malleswaram, Bengaluru - 560012**