

**3.1.1. Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the year (2023-2024):**      **0.35 Lakhs**

**INDEX**

Sl. No.	Name of the Project/ Endowments, Chairs	Name of the Principal Investigator / Co-investigator	Department of Principal Investigator	Year of Award	Name of the Funding Agency	Amount Sanctioned	Type (Government /non-Government)	Page No.
1.	Synthesis and Characterization of Cellulose from discarded cigarette butts and its implementation in production of carboxymethyl cellulose (CMC) and Cyrene.	Dr. Kavitha V Joshi and Dr. Soumya. C	Biotechnology	2024	Karnataka State Council for Science and Technology (KSCST) - 47th Series - SPP	0.055	Government	03
2.	Development of biodegradation polymeric membranes by polysaccharides with cross linking for packaging applications	Dr.SEEMA S and Dr. Kirankumar B	Biotechnology	2024	Karnataka State Council for Science and Technology (KSCST) - 47th Series - SPP	0.05	Government	05
3.	ANALYSIS OF MULTI - STOREY BUILDING SUBJECTED TO BLAST LOAD	Prof. PRIYANKA A	Civil Engineering	2024	Karnataka State Council for Science and Technology (KSCST) - 47th Series - SPP	0.04	Government	07
4.	ENSEMBLE-LEARNING FRAMEWORK FOR INTRUSION DETECTION TO ENHANCE INTERNET TO THINGS DEVICES SECURITY	Prof. CHAITRA P Dr. Anitha T G	Computer Science & Engineering	2023-2024	Karnataka State Council for Science and Technology (KSCST) - 47th Series - SPP	0.05	Government	09
5.	AUTOMATIC POWER FACTOR CORRECTION	Prof. SUPRIYA SAJJAN	Electrical and Electronics Engineering	2024	Karnataka State Council for Science and Technology (KSCST) - 47th Series - SPP	0.055	Government	11

Sl. No.	Name of the Project/ Endowments, Chairs	Name of the Principal Investigator / Co-investigator	Department of Principal Investigator	Year of Award	Name of the Funding Agency	Amount Sanctioned	Type (Government /non- Government)	Page No.
6.	ADVANCED IOT AND MACHINE LEARNING SOLUTIONS TO MONITOR UNDERPASS WATER LOGGING	Prof. Prathibha P	Electronics & Communication Engineering	2023- 2024	Karnataka State Council for Science and Technology (KSCST) - 47th Series - SPP	0.03	Government	13
7.	EFFICIENCY THROUGH INNOVATION - A GEARLESS TRANSMISSION SYSTEM WITH ELBOW MECHANISM	Dr. R. G. DESHPANDE	Mechanical Engineering	2023- 2024	Karnataka State Council for Science and Technology (KSCST) - 47th Series - SPP	0.07	Government	15





# 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

**Dr. U. T. Vijay**  
Executive Secretary

19th April, 2024

Ref: 7.1.01/SPP/37

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

Dear Sir/Madam,

**Sub :** Sanction of Student Project - 47th Series: Year 2023-2024

**Project Proposal Reference No. :**

**47S\_BE\_1593**

**Ref :** Project Proposal entitled

**SYNTHESIS AND CHARACTERIZATION OF CELLULOSE FROM  
DISCARDED CIGARETTE BUTTS AND ITS IMPLEMENTATION IN  
PRODUCTION OF CARBOXYMETHYL CELLULOSE (CMC) AND  
CYRENE**

We are pleased to inform that your student project proposal referred above, has been approved by the Council under "Student Project Programme - 47th Series". The project details are as below:

<b>Student(s)</b>	Mr. TANU KUMAR C.	<b>Department</b>	<b>BIOTECHNOLOGY</b>
	Ms. SUSHMA S.		
	Ms. RAKSHA K.		
	Mr. K. NARAHARI		
<b>Guide(s)</b>	Dr. KAVITHA V. JOSHI	<b>Sanctioned Amount (in Rs.)</b>	<b>5,500.00</b>
	Dr. SOUMYA C.		

## Comments / Suggestions of the Experts

1. DISCUSS ON A CLEAN PROCESS FOR OBTAINING HIGH-QUALITY CELLULOSE ACETATE FROM CIGARETTE BUTTS.
2. DISCUSS ON THE EXTRACTION AND CHEMICAL MODIFICATION PROCESS.
3. FOCUS ON CELLULOSE ACETATE FIBRES HAS THE SAME CHEMICAL, THERMAL PROPERTIES OF UNUSED CELLULOSE ACETATE FIBRES, THE PURIFICATION METHOD DOES NOT ALTER THE MATERIAL PROPERTIES.

## Instructions:

- a) The project should be performed based on the objectives of the proposal submitted.
- b) Any changes in the project title, objectives or students team is liable for rejection of the project and your institution shall return the sanctioned funds to KSCST.
- c) Please quote your project reference number printed above in all your future correspondences.
- d) After completing the project, 2 to 3 page write-up (synopsis) needs to be uploaded on to the following Google Forms link <https://forms.gle/6s8hq5XbScsBMv3G9>. The synopsis should include following:

- 1) Project Reference Number
- 2) Title of the project
- 3) Name of the College & Department

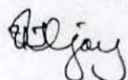
Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560 057

- 4) Name of the students & Guide(s)
  - 5) Keywords
  - 6) Introduction / background (with specific reference to the project, work done earlier, etc) - about 20 lines
  - 7) Objectives (about 10 lines)
  - 8) Methodology ( about 20 lines on materials, methods, details of work carried out, including drawings, diagrams etc)
  - 9) Results and Conclusions (about 20 lines with specific reference to work carried out)
  - 10) Scope for future work (about 20 lines).
- e) In case of incompleted projects, the sanctioned amount shall be returned to KSCST.
- f) The sanctioned amount will be transferred by NEFT to the bank account provided by the College/Institute.
- g) The sponsored projects evaluation will be held **third week of May 2024** onwards through Online Mode and the details of the same will be intimated shortly by email / Website announcement.
- h) After completion of the project, soft copy of the project report duly signed by the Principal, the HoD, Guide(s) and student(s) shall be uploaded in the following Google Forms Link <https://forms.gle/Mi446v1U5fdFcMD99>. The report should be prepared in the format prescribed by the university.
- i) The **Utilization Certificate and Statement of Expenditure duly signed by competent authority** of consolidated sanctioned projects from your institution need to be submitted **20 August 2024** without fail.

Please visit our website for further announcements / information and for any clarifications please email to [spp@kscst.org.in](mailto:spp@kscst.org.in)

Thanking you and with best regards,

Yours sincerely,



(U T Vijay)

Copy to:

- 1) The HoD  
BIOTECHNOLOGY  
SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU
- 2) Dr. KAVITHA V. JOSHI  
BIOTECHNOLOGY  
SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU
- Dr. SOUMYA C.
- 3) THE ACCOUNTS OFFICER  
KSCST, BENGALURU



Principal  
Sapthagiri College of Engineering  
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**Dr. U. T. Vijay**  
Executive Secretary

19th April, 2024

Ref: 7.1.01/SPP/37

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

Dear Sir/Madam,

**Sub :** Sanction of Student Project - 47th Series: Year 2023-2024

**Project Proposal Reference No. :**

**47S\_BE\_2154**

Ref : Project Proposal entitled

**DEVELOPMENT OF BIODEGRADABLE POLYMERIC MEMBRANES BY  
POLYSACCHARIDES WITH CROSSLINKING FOR PACKAGING  
APPLICATIONS**

We are pleased to inform that your student project proposal referred above, has been approved by the Council under "Student Project Programme - 47th Series". The project details are as below:

<b>Student(s)</b>	Ms. DHARANI G.	<b>Department</b>	<b>BIOTECHNOLOGY</b>
	Ms. DIVYA K. N.		
	Ms. NISCHITHA K. S.		
	Ms. SWATHI BHARADWAJ R.		
<b>Guide(s)</b>	Dr. SEEMA SAKKARA	<b>Sanctioned Amount (in Rs.)</b>	<b>5,500.00</b>
	Dr.KIRAN KUMAR		

## Comments / Suggestions of the Experts

1. DISCUSS ON POLYSACCHARIDES AND THEIR DERIVATIVES AS COMPONENTS OF BIODEGRADABLE PACKAGING MATERIALS.
2. FOCUS ON THE DEVELOPMENT OF NANO-BASED POLYSACCHARIDES PACKAGING MATERIALS TO IMPROVE THE FEATURES OR TO OVERCOME THE LIMITATIONS OFFERED BY TRADITIONAL POLYSACCHARIDE PACKAGING MATERIALS.

## Instructions:

- a) The project should be performed based on the objectives of the proposal submitted.
- b) Any changes in the project title, objectives or students team is liable for rejection of the project and your institution shall return the sanctioned funds to KSCST.
- c) Please quote your project reference number printed above in all your future correspondences.
- d) After completing the project, 2 to 3 page write-up (synopsis) needs to be uploaded on to the following Google Forms link <https://forms.gle/6s8hq5XbScsBMv3G9>. The synopsis should include following:

- 1) Project Reference Number
- 2) Title of the project
- 3) Name of the College & Department

Principal

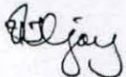
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560 057

- 4) Name of the students & Guide(s)
  - 5) Keywords
  - 6) Introduction / background (with specific reference to the project, work done earlier, etc) - about 20 lines
  - 7) Objectives (about 10 lines)
  - 8) Methodology ( about 20 lines on materials, methods, details of work carried out, including drawings, diagrams etc)
  - 9) Results and Conclusions (about 20 lines with specific reference to work carried out)
  - 10) Scope for future work (about 20 lines).
- e) In case of incompeted projects, the sanctioned amount shall be returned to KSCST.
- f) The sanctioned amount will be transferred by NEFT to the bank account provided by the College/Institute.
- g) The sponsored projects evaluation will be held **third week of May 2024** onwards through Online Mode and the details of the same will be intimated shortly by email / Website announcement.
- h) After completion of the project, soft copy of the project report duly signed by the Principal, the HoD, Guide(s) and student(s) shall be uploaded in the following Google Forms Link <https://forms.gle/Mi446v1U5fdFcMD99>. The report should be prepared in the format prescribed by the university.
- i) The **Utilization Certificate and Statement of Expenditure duly signed by competent authority** of consolidated sanctioned projects from your institution need to be submitted **20 August 2024** without fail.

Please visit our website for further announcements / information and for any clarifications please email to [spp@kscst.org.in](mailto:spp@kscst.org.in)

Thanking you and with best regards,

Yours sincerely,



(U T Vijay)

Copy to:

- 1) The HoD  
BIOTECHNOLOGY  
SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU
- 2) Dr. SEEMA SAKKARA  
BIOTECHNOLOGY  
SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU
- Dr.KIRAN KUMAR
- 3) THE ACCOUNTS OFFICER  
KSCST, BENGALURU



Principal  
Sapthagiri College of Engg  
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**Dr. U. T. Vijay**

Executive Secretary

19th April, 2024

Ref: 7.1.01/SPP/37

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

Dear Sir/Madam,

Sub : Sanction of Student Project - 47th Series: Year 2023-2024

**Project Proposal Reference No. : 47S\_BE\_2314**

Ref : Project Proposal entitled **ANALYSIS OF MULTI -STOREY BUILDING SUBJECTED TO BLAST LOAD**

We are pleased to inform that your student project proposal referred above, has been approved by the Council under "Student Project Programme - 47th Series". The project details are as below:

<b>Student(s)</b>	Ms. SUMA S.	<b>Department</b>	<b>CIVIL ENGINEERING</b>
	Ms. YAMUNA K. R.		
	Ms. NEHA T. M.		
	Ms. PRATHIKSHA P. PALANKAR		
<b>Guide(s)</b>	Prof. PRIYANKA A.	<b>Sanctioned Amount (in Rs.)</b>	<b>4,000.00</b>

## Instructions:

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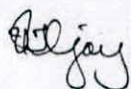
  
Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bengaluru-560 057

- 8) Methodology ( about 20 lines on materials, methods, details of work carried out, including drawings, diagrams etc)
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Thanking you and with best regards,

Yours sincerely,



(U T Vijay)

Copy to:

- 1) The HoD  
CIVIL ENGINEERING  
SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU
- 2) Prof. PRIYANKA A.  
CIVIL ENGINEERING  
SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU
- 3) THE ACCOUNTS OFFICER  
KSCST, BENGALURU



Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
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**Dr. U. T. Vijay**

Executive Secretary

19th April, 2024

Ref: 7.1.01/SPP/37

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

Dear Sir/Madam,

Sub : Sanction of Student Project - 47th Series: Year 2023-2024

**Project Proposal Reference No. : 47S\_BE\_3215**

Ref : Project Proposal entitled


**ENSEMBLE - LEARNING FRAMEWORK FOR INTRUSION  
DETECTION TO ENHANCE INTERNET OF THINGS' DEVICES  
SECURITY**

We are pleased to inform that your student project proposal referred above, has been approved by the Council under "Student Project Programme - 47th Series". The project details are as below:

<b>Student(s)</b>	Ms. POORNIMA T.	<b>Department</b>	<b>COMPUTER SCIENCE AND ENGINEERING</b>
	Ms. S. MEHAK AFREEN		
	Ms. SAHANA N.		
	Ms. SHREYA SHETTY S.		
<b>Guide(s)</b>	Prof. CHAITRA P.	<b>Sanctioned Amount (in Rs.)</b>	<b>5,000.00</b>
	Ms. ANITHA T. G.		

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  - Name of the students & Guide(s)
  - Keywords
  - Introduction / background (with specific reference to the project, work done earlier, etc) - about 20 lines
  - Objectives (about 10 lines)

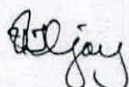
  
Principal  
Sapthagiri College of Engineering,  
Chikkasandra, Hesaraghatta Road,  
Bangalore-560 057

- 8) Methodology ( about 20 lines on materials, methods, details of work carried out, including drawings, diagrams etc)
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Thanking you and with best regards,

Yours sincerely,



(U T Vijay)

Copy to:

- 1) The HoD  
COMPUTER SCIENCE AND ENGINEERING  
SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU
- 2) Prof. CHAITRA P.                      Ms. ANITHA T. G.  
COMPUTER SCIENCE AND ENGINEERING  
SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU
- 3) THE ACCOUNTS OFFICER  
KSCST, BENGALURU



Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
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Executive Secretary

19th April, 2024

Ref: 7.1.01/SPP/37

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

Dear Sir/Madam,

Sub : Sanction of Student Project - 47th Series: Year 2023-2024

**Project Proposal Reference No. : 47S\_BE\_1727**

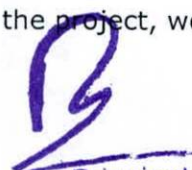
Ref : Project Proposal entitled **AUTOMATIC POWER FACTOR CORRECTION**

We are pleased to inform that your student project proposal referred above, has been approved by the Council under "Student Project Programme - 47th Series". The project details are as below:

<b>Student(s)</b>	Ms. RAJESHWARI C. H.	<b>Department</b>	<b>ELECTRICAL AND ELECTRONICS ENGINEERING</b>
	Ms. YASHASWINI S.		
	Mr. BHARATH B. S.		
	Ms. PALLAVI N.		
<b>Guide(s)</b>	Mrs. SUPRIYA SAIJANA	<b>Sanctioned Amount (in Rs.)</b>	<b>5,500.00</b>

## Instructions:

- The project should be performed based on the objectives of the proposal submitted.
- Any changes in the project title, objectives or students team is liable for rejection of the project and your institution shall return the sanctioned funds to KSCST.
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  - Name of the College & Department
  - Name of the students & Guide(s)
  - Keywords
  - Introduction / background (with specific reference to the project, work done earlier, etc) - about 20 lines
  - Objectives (about 10 lines)

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

- 8) Methodology ( about 20 lines on materials, methods, details of work carried out, including drawings, diagrams etc)
  - 9) Results and Conclusions (about 20 lines with specific reference to work carried out)
  - 10) Scope for future work (about 20 lines).
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Thanking you and with best regards,

Yours sincerely,



(U T Vijay)

Copy to:

- 1) The HoD  
ELECTRICAL AND ELECTRONICS ENGINEERING  
SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU
- 2) Mrs. SUPRIYA SAIJANA  
ELECTRICAL AND ELECTRONICS ENGINEERING  
SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU
- 3) THE ACCOUNTS OFFICER  
KSCST, BENGALURU



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Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
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19th April, 2024

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To,  
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Bengaluru – 560 057

Dear Sir/Madam,

Sub : Sanction of Student Project - 47th Series: Year 2023-2024

**Project Proposal Reference No. : 47S\_BE\_1584**


Ref : Project Proposal entitled **ADVANCED IOT AND MACHINE LEARNING SOLUTIONS TO MONITOR UNDERPASS WATER LOGGING**

We are pleased to inform that your student project proposal referred above, has been approved by the Council under "Student Project Programme - 47th Series". The project details are as below:

<b>Student(s)</b>	Ms. AISHWARYA K.	<b>Department</b>	<b>ELECTRONICS AND COMMUNICATION ENGINEERING</b>
	Ms. CHANDANA K.		
	Ms. DEEKSHA V.		
	Ms. HAFSA TABASSUM		
<b>Guide(s)</b>	Prof. PRATHIBHA P.	<b>Sanctioned Amount (in Rs.)</b>	<b>3,000.00</b>

## Instructions:

- The project should be performed based on the objectives of the proposal submitted.
- Any changes in the project title, objectives or students team is liable for rejection of the project and your institution shall return the sanctioned funds to KSCST.
- Please quote your project reference number printed above in all your future correspondences.
- After completing the project, 2 to 3 page write-up (synopsis) needs to be uploaded on to the following Google Forms link <https://forms.gle/6s8hq5XbScsBMv3G9>. The synopsis should include following:
  - Project Reference Number
  - Title of the project
  - Name of the College & Department
  - Name of the students & Guide(s)
  - Keywords
  - Introduction / background (with specific reference to the project, work done earlier, etc) - about 20 lines
  - Objectives (about 10 lines)

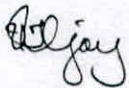
  
Principal  
Sapthagiri College of Engineering  
Chickasandra, Hesaraghatta Road,  
Bengaluru-560 057

- 8) Methodology ( about 20 lines on materials, methods, details of work carried out, including drawings, diagrams etc)
  - 9) Results and Conclusions (about 20 lines with specific reference to work carried out)
  - 10) Scope for future work (about 20 lines).
- e) In case of incompeted projects, the sanctioned amount shall be returned to KSCST.
  - f) The sanctioned amount will be transferred by NEFT to the bank account provided by the College/Institute.
  - g) The sponsored projects evaluation will be held **third week of May 2024** onwards through Online Mode and the details of the same will be intimated shortly by email / Website
  - h) After completion of the project, soft copy of the project report duly signed by the Principal, the HoD, Guide(s) and student(s) shall be uploaded in the following Google Forms Link <https://forms.gle/Mi446v1U5fdFcMD99>. The report should be prepared in the format prescribed by the university.
  - i) The **Utilization Certificate and Statement of Expenditure duly signed by competent authority** of consolidated sanctioned projects from your institution need to be submitted **20 August 2024** without fail.

Please visit our website for further announcements / information and for any clarifications please email to [spp@kscst.org.in](mailto:spp@kscst.org.in)

Thanking you and with best regards,

Yours sincerely,



(U T Vijay)

Copy to:

- 1) The HoD  
ELECTRONICS AND COMMUNICATION ENGINEERING  
SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU
- 2) Prof. PRATHIBHA P.  
ELECTRONICS AND COMMUNICATION ENGINEERING  
SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU
- 3) THE ACCOUNTS OFFICER  
KSCST, BENGALURU



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





# 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

**Dr. U. T. Vijay**

Executive Secretary

19th April, 2024

Ref: 7.1.01/SPP/37

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

Dear Sir/Madam,

Sub : Sanction of Student Project - 47th Series: Year 2023-2024

**Project Proposal Reference No. : 47S\_BE\_4732**

Ref : Project Proposal entitled **EFFICIENCY THROUGH INNOVATION - A GEARLESS TRANSMISSION SYSTEM WITH ELBOW MECHANISM**

We are pleased to inform that your student project proposal referred above, has been approved by the Council under "Student Project Programme - 47th Series". The project details are as below:

<b>Student(s)</b>	Mr. CHANDAN S.	<b>Department</b>	<b>MECHANICAL ENGINEERING</b>
	Mr. R. ARUN KUMAR		
	Mr. BHARATH KUMAR G.		
	Mr. RAVISH GOWDA R.		
<b>Guide(s)</b>	Dr. R. G. DESHPANDE	<b>Sanctioned Amount (in Rs.)</b>	<b>7,000.00</b>

## Instructions:

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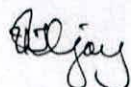
  
Principal  
Sapthagiri College of Engineering  
Chickasandra, Hesaraghatta Road,  
Bengaluru-560 057

- 8) Methodology ( about 20 lines on materials, methods, details of work carried out, including drawings, diagrams etc)
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Please visit our website for further announcements / information and for any clarifications please email to [spp@kscst.org.in](mailto:spp@kscst.org.in)

Thanking you and with best regards,

Yours sincerely,



(U T Vijay)

Copy to:

- 1) The HoD  
MECHANICAL ENGINEERING  
SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU
- 2) Dr. R. G. DESHPANDE  
MECHANICAL ENGINEERING  
SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU
- 3) THE ACCOUNTS OFFICER  
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Principal  
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