

# SAPTHAGIRI COLLEGE OF ENGINEERING

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057 Affiliated to VTU, Belagavi and approved by AICTE, New Delhi Accredited by NAAC with "A" grade, Accredited by NBA for CSE, ISE, ECE, EEE, ME An ISO 9001:2015 & ISO 14001:2015 Certified Institution



# 3.1.2. Number of departments having Research projects funded by government and non-government agencies during the year (2023-2024):

# Ans.: 6 Departments

SI. No.	Name of the Project/ Endowments, Chairs	Name of the Principal Investigator/ Co-investivator	Department of Principal Investigator	Year of Award	Name of the Funding Agency	Amount Sanctioned	Type(Govern ment/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

# INDEX

SI. No.	Name of the Project/ Endowments, Chairs	Name c ie Principal Investigator / Co-investivator	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



(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. :

Ref : Project Proposal entitled

# 47S\_BE\_1593

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:

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

#### **Comments / Suggestions of the Experts**

1. DISCUS UN A CLEAN PROCESS FOR OBTAINING HIGH-QUALITY CELLULUSE 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
  - Name of the College & Department

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 studetn(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

Thanking you and with best regards,

Yours sincerely,

(UT Vijay)

Copy to:

1) The HoD BIOTECHNOLOGY SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU

2) Dr. KAVITHA V. JOSHI Dr. SOUMYA C. BIOTECHNOLOGY SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU

3) THE ACCOUNTS OFFICER KSCST, BENGALURU



(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. :

Ref : Project Proposal entitled

47S\_BE\_2154 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:

Student(s)	Ms. DHARANI G.		BIOTECHNOLOGY
	Ms. DIVYA K. N.	Department	
7 - 6 2 -	Ms. NISCHITHA K. S.	×	
-di- 1	Ms. SWATHI BHARADWAJ R.	Sanctioned	
Guide(s)	Dr. SEEMA SAKKARA	Amount	5,500.00
	Dr.KIRAN KUMAR	(in Rs.)	

#### Comments / Suggestions of the Experts

1. DISCUSS ON POLISACCHARIDES 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



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 studetn(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

Thanking you and with best regards,

Yours sincerely,

(UT Vijay)

Copy to:

1) The HoD BIOTECHNOLOGY SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU

2) Dr. SEEMA SAKKARA Dr.KIRAN KUMAR BIOTECHNOLOGY SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU

3) THE ACCOUNTS OFFICER KSCST, BENGALURU

Septhagiri College of Eng Chikkasandra, Hesaraghatta Roay, Bangalore-560 057



(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\_2314

Ref : Project Proposal entitled

#### 47S\_BE\_2314 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:

Student(s)	Ms. SUMA S.		
	Ms. YAMUNA K. R.	Department	CIVIL ENGINEERING
1020-0157	Ms. NEHA T. M.		a
	Ms. PRATHIKSHA P. PALANKAR	Sanctioned	
Guide(s)	Prof. PRIYANKA A.	Amount	4,000.00
		(in Rs.)	

#### 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
  - 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
- h) After completion of the project, soft copy of the project report duly signed by the Principal, the HoD, Guide(s) and studetn(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

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

 THE ACCOUNTS OFFICER KSCST, BENGALURU



(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\_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:

Student(s)	Ms. POORNIMA T.	ary <sup>a</sup>	COMPUTER SCIENCE AND ENGINEERING
	Ms. S. MEHAK AFREEN	Department	
C. C. Martin	Ms. SAHANA N.		ENGINEERING
1257	Ms. SHREYA SHETTY S.	Sanctioned	
Guide(s)	Prof. CHAITRA P.	Amount	5,000.00
1 2 1 24 7	Ms. ANITHA T. G.	(in Rs.)	

#### 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
- 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
- h) After completion of the project, soft copy of the project report duly signed by the Principal, the HoD, Guide(s) and studetn(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

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



# KSCST

# 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\_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:

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

#### 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
  - 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
- h) After completion of the project, soft copy of the project report duly signed by the Principal, the HoD, Guide(s) and studetn(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

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





(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

Ref: 7.1.01/SPP/37

19th April, 2024

To, The Principal Sapthagiri College of Engineering 14/5 Chickasandra Hesaraghatta Main Road

Dear Sir/Madam,

Bengaluru - 560 057

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:

Student(s)	Ms. AISHWARYA K.		ELECTRONICE AND	
197 2.	Ms. CHANDANA K.	Department	COMMUNICATION ENGINEERING	
1.0	Ms. DEEKSHA V.			
	Ms. HAFSA TABASSUM	Sanctioned		
Guide(s)	Prof. PRATHIBHA P.	Amount		
		(in Rs.)		

#### 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
  - 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
- h) After completion of the project, soft copy of the project report duly signed by the Principal, the HoD, Guide(s) and studetn(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

Thanking you and with best regards,

Yours sincerely,

(U T Vijay)

Copy to:

 The HoD ELECTRONICS AND COMMUNICATION ENGINEERING SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU

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



KSCST

(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 TI

#### 47S\_BE\_4732 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:

Student(s)	Mr. CHANDAN S.		λ
1. (14) A. (1)	Mr. R. ARUN KUMAR	Department	MECHANICAL ENGINEERING
	Mr. BHARATH KUMAR G.		
	Mr. RAVISH GOWDA R.	Sanctioned	
Guide(s)	Dr. R. G. DESHPANDE	Amount	7,000.00
		(in Rs.)	

#### 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
  - 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
- h) After completion of the project, soft copy of the project report duly signed by the Principal, the HoD, Guide(s) and studetn(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

Thanking you and with best regards,

Yours sincerely,

(U T Vijay)

Copy to:

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

Principa

Septhagiri College of Engile Chikkasandra, Hesaraghatta Rossi, Bangalore-560 057