

# KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science Campus, Bengaluru – 560 012

Website: <http://www.kscst.iisc.ernet.in/spp.html> || Email: [spp@kscst.iisc.ernet.in](mailto:spp@kscst.iisc.ernet.in) || Phone: 080-23341652, 23348840/48/49

## 44<sup>th</sup> Series of Student Project Programme: 2020-21

List of Student Project Proposals Approved for Sponsorship

### 3. A.J. INSTITUTE OF ENGINEERING AND TECHNOLOGY, MANGALURU

Sl. No.	PROJECT REFERENCE No.	PROJECT TITLE	BRANCH	COURSE	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)	SANCTIONED AMOUNT (IN Rs.)
10.	44S_BE_0006	SUSTAINABLE AND SAFE RE-USE OF MUNICIPAL SEWAGE SLUDGE FOR PHOSPHOROUS RECOVERY – A STUDY ON MANGALORE MUNICIPAL SEWAGE SLUDGE	CIVIL ENGINEERING	B.E.	Prof. NITESH	Mr. PRAMITH A KRISHNAN Mr. SOURAV S KUMAR Mr. ABHIJITH K MADHU Mr. ABDUR REHMAN SAUHAN	6000.00
11.	44S_BE_0007	GEOPOLYMER CONCRETE USING FLYASH AND GGBS	CIVIL ENGINEERING	B.E.	Dr. SANGEETHA D M	Ms. POURNIMA K Mr. ADARSH JAYAN Mr. ABHIJIT E S Ms. RUKSHA JALAGANDAM	5000.00
12.	44S_BE_0024	MECHANICAL POCKET MANURING	MECHANICAL ENGINEERING	B.E.	Dr. VIGNESHA NAYAK	Mr. SHAILESH V AITHAL Mr. RAHUL. P. SUVARNA Mr. VIKAS. P Mr. BHUVANESH. R. MALLYA	5000.00
13.	44S_BE_0026	AUTOMATIC SOLAR POWERED RAILWAY TRACK CRACK DETECTING VEHICLE.	MECHANICAL ENGINEERING	B.E.	DR. SREEJITH B K	Mr. LIKITH S AMIN Mr. JACOB ANTONY Mr. JATIN KUCKIAN Ms. NEHA S JAIN	5000.00
14.	44S_BE_0027	COVID DETECTION USING DEEP LEARNING	INFORMATION SCIENCE AND ENGINEERING	B.E.	Mr. JOHN PRAKESH VEIGAS Mr. RAKESH M R	Ms. FATHIMA K Ms. KATHIJATHUL SANA Mr. SHREYAS M S Mr. YASHASVI S HEGDE	2500.00
15.	44S_BE_0034	PERFORMANCE COMBUSTION AND EMISSION CHARACTERISTICS OF A SINGLE CYLINDER CI ENGINE WITH WCO BIODIESEL AND NANOPARTICLES WITH OXYGEN ENRICHMENT PROCESS	MECHANICAL ENGINEERING	B.E.	Dr. VIGNESHA NAYAK	Mr. MANISH KULAL Mr. PURUSHOTHAMA H SHETTY Mr. WILFRED MARSHAL VARGHESE Mr. TEJESH	6000.00
16.	44S_BE_0037	AUTOMATED DRAIN CLEANING MACHINE	MECHANICAL ENGINEERING	B.E.	Mr. NITHIN SHET	Mr. KARTHIK Mr. RITHESH Mr. SANATH KUMAR Mr. KARAN K	7000.00

**Note:**

- The sanctioned amount will be credited to the college bank account by NEFT.
- The evaluation of above projects will be conducted during May / June 2021 via online mode.
- Participation in the online evaluation process and submission of softcopy of the final project report is mandatory, failing to which the sanctioned project will be withdrawn from the list and sanctioned amount shall be returned to KSCST.
- After completion of the projects, softcopy (PDF format in a single file) of the report needs to be sent to KSCST without fail.
- Any corrections with respect to the names of the guide and students should be requested at [spp@kscst.iisc.ernet.in](mailto:spp@kscst.iisc.ernet.in).

  
Principal

A.J. Institute of Engineering & Technology  
Mangaluru - 575 006



# A. J. Institute of Engineering and Technology Mangaluru



Approved by AICTE New Delhi, Affiliated to VTU Belagavi & Recognised by Govt. of Karnataka  
(A unit of Laxmi Memorial Education Trust (R))

NH-66, Kottara Chowki, Mangaluru - 575 006. Ph : +91 824 2455048, 2862202 Mob.: +91 9483026503. Fax : +91 824 2862205  
email : ajengcollege@gmail.com | website : www.ajiet.edu.in

## FORM GFR 19-A

### UTILIZATION CERTIFICATE

### KSCST: STUDENT PROJECT PROGRAMME – 44<sup>th</sup> SERIES

Sl. No.	Letter No. and date	Amount (Rs.)	Certified that KSCST has provided partial financial support of Rs. 36,500/- towards Student Project Programme - 44 <sup>th</sup> Series
1	Ref. No. 7.1.03/SPP/10 dated 07/04/2021	36,500/-	A sum of Rs 36,500/- only has been utilized for the purpose of Student Project Programme for which it was sanctioned.

Certified that I have satisfied myself that the conditions on which the grants-in-aid was sanctioned have been duly / are being fulfilled and that I have exercised the following check to see that the money was actually utilized for the purpose for which it was sanctioned.

Kinds of Checks exercised.

01. Cash Book
02. Vouchers

Sl No	Project Proposal Ref. No.	Title of the Project	Department/ Guide	Amount Sanctioned by KSCST	Amount Utilized by the College	Balance if any to be refunded to KSCST
1.	44S_BE_0006	SUSTAINABLE AND SAFE RE-USE OF MUNICIPAL SEWAGE SLUDGE FOR PHOSPHOROUS RECOVERY - A STUDY ON MANGALORE MUNICIPAL SEWAGE SLUDGE	CIVIL ENGINEERING	Rs. 6000.00	Rs. 6000.00	NIL
2.	44S_BE_0007	GEOPOLYMER CONCRETE USING FLYASH AND GGBS	CIVIL ENGINEERING	Rs. 5000.00	Rs. 5000.00	NIL
3.	44S_BE_0024	MECHANICAL POCKET MANURING	MECHANICAL ENGINEERING	Rs. 5000.00	Rs. 5000.00	NIL
4.	44S_BE_0026	AUTOMATIC SOLAR POWERED RAILWAY TRACK CRACK DETECTING VEHICLE.	MECHANICAL ENGINEERING	Rs. 5000.00	Rs. 5000.00	NIL
5.	44S_BE_0027	COVID DETECTION USING DEEP LEARNING	INFORMATION SCIENCE AND ENGINEERING	Rs. 2500.00	Rs. 2500.00	NIL
6.	44S_BE_0034	PERFORMANCE COMBUSTION AND EMISSION CHARACTERISTICS OF A SINGLE CYLINDER CI ENGINE WITH WCO BIODIESEL AND NANOPARTICLES WITH OXYGEN ENRICHMENT PROCESS	MECHANICAL ENGINEERING	Rs. 6000.00	Rs. 6000.00	NIL
7.	44S_BE_0037	AUTOMATED DRAIN CLEANING MACHINE	MECHANICAL ENGINEERING	Rs. 7000.00	Rs. 7000.00	NIL

Signature of the Principal  
with Seal

Date: 27-09-2021

Place : AJIET, Mangaluru

**Principal**

**A.J. Institute of Engineering & Technology  
Mangaluru - 575 006**

Signature of the Finance / Accounts Officer  
with Seal

**A.J. Institute of Engineering and Technology  
Mangaluru - 575 006, U.K. Karnataka**



# A. J. Institute of Engineering and Technology Mangaluru



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(A unit of Laxmi Memorial Education Trust (R))

NH-66, Kottara Chowki, Mangaluru - 575 006. Ph : +91 824 2455048, 2862202 Mob.: +91 9483026503. Fax : +91 824 2862205  
email : ajenggcollege@gmail.com | website : www.ajiet.edu.in

## UTILISATION CERTIFICATE

### KSCST : STUDENT PROJECT PROGRAMME – 44<sup>th</sup> SERIES

This is to certify that **A.J. INSTITUTE OF ENGINEERING AND TECHNOLOGY, MANGALURU** having its office / institution at NH-66, Kottara Chowki, Mangalore, Karnataka 575006 Karnataka has been granted a sum of Rs. **Thirty six thousand five hundred** has been credited vide **NEFT : KSCST** (Transaction Id) dated **28/05/2021** (Transaction date) to **Canara Bank** (Name of the bank credited). **Account No. 02962010000524** from Karnataka State Council for Science and Technology (KSCST) vide their Grant sanction letter **Ref. No. 7.1.03/SPP/10** dated **07/04/2021** towards 44<sup>th</sup> Series Student Project Programme (SPP) -1) 44S\_BE\_0006 2) 44S\_BE\_0007 3) 44S\_BE\_0024 4) 44S\_BE\_0026 5) 44S\_BE\_0027 6) 44S\_BE\_0034 7) 44S\_BE\_0037

The college has incurred the expenditure of Rs. **Thirty six thousand five hundred** towards the said project/s.

All the expenditure voucher / invoices are duly accounted by the college and is authenticated by the Principal and Accounts Officer / Finance Officer of our institution.

The above information is extracted from the books of accounts and documents produced before us and information and explanations provided to us. We further certify that, we have verified the relevant books of accounts and documents / bills / vouchers and found that the said amount has been utilized for the purposes as laid down by the Karnataka State Council for Science and Technology (KSCST). This certificate is provided by us at the specific request of Karnataka State Council for Science and Technology (KSCST) to evidence the utilization of grants in terms of above referred grant sanction letter dated **07/04/2021**.

Signature of the Principal  
with Seal

Signature of the Finance / Accounts Officer  
with Seal

Date: 27/09/2021

Place: AJIET, Mangaluru

Principal  
**A.J. Institute of Engineering & Technology**  
Mangaluru - 575 006

Accounts Manager  
**A.J. INSTITUTE OF ENGINEERING AND TECHNOLOGY**  
Mangaluru - 575 006, D.K., Karnataka