



K.S. Institute of Technology, Bangalore – 560109

**Department of Electronics and Communication
Engineering**

Programme Level Document:

SPONSORED RESEARCH PROJECTS



K.S. INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
SPONSORED RESEARCH PROJECTS

The ECE department has an R & D Centre affiliated by Visveswaraya Technological University (VTU). The **research projects** worth **Rs. 8.43 Lakhs** are either completed or ongoing. These projects are funded by Government of Karnataka, Vision Group on Science and Technology (VGST), Karnataka State Council for Science and Technology (KSCST) and Visveswaraya Technological University (VTU).

Year	No. of sponsored Students Projects	Faculty Projects	Amount Sanctioned	Status
2019-20 (CAYm1)	2	1	3,10,000/-	Ongoing
2018-19 (CAYm2)	3	-	18,000/-	Completed
2017-18 (CAYm3)	3	1	5,15,000/-	Completed
		Total	8,43,000/-	

HEAD OF THE DEPARTMENT
Dept. of Electronics & Communication Engg.
K.S. Institute of Technology
Bengaluru - 560 109

PRINCIPAL
K.S. INSTITUTE OF TECHNOLOGY
BENGALURU - 560 109.



K.S. INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
SPONSORED RESEARCH PROJECTS
CAYm1(2019-20)

Sl. No.	Date	Funding agency/Scheme	Title of project	Name of the coordinator/Guide/PI & Co-PI	Name of the Students	Duration	Amount sanctioned	Status
1	Dec 2020	Research Grant for Scientists/Faculty RGS/F), VGST, Government of Karnataka	Development of Bioinspired Algorithms for Real Time Piracy Detection Systems based on Thermogram Analysis	Dr. Surekha Borra/Mr.Sunil Kumar GR	NA	1 Year	3,00,000	Ongoing
2	Mar 2020	KSCST SSP-43 Series	RAKSHAK - A Bored Well Rescue Bot	Dr. P N Sudha	Ms. Kadri Srinidhi Rao Ms. Jeevitha Kalaashilpa N C Ms. Ashwini S Ms. Bhagya Shree S J	6 Months	5500/-	Completed
3	Mar 2020	KSCST SSP-43 Series	Automatic Segregation of Waste Using Robotic Arm	Mrs. Sangeetha V	Ms. Bhoomika P M Ms. Sonika V Ms. Suma B S Ms. Vismitha Sonna Sathyanarayana	6 Months	4500/-	Completed
						Total	3,10,000/-	

HEAD OF THE DEPARTMENT
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K.S. Institute of Technology
Bengaluru - 560 109

PRINCIPAL
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BENGALURU - 560 109.



Government of Karnataka

Vision Group on Science and Technology

Department of Information Technology, Biotechnology and Science & Technology
4th Gate, 7th Floor, M.S. Building, Dr. Ambedkar Veedhi, Bengaluru - 560 001
Phone : 080-2203 2013, E-mail : visiongroup.st@gmail.com, Website : www.vgst.in

Dr. S.G. Sreekanteswara Swamy, Ph.D.
Consultant

No: VGST/RGS-F/GRD-907/2019-20/2020-21/198

Date: 10.11.2020

To,

Dr. Surekha Borra

Professor

Department of Electronics and Communication Engineering,
K.S. Institute of Technology,
No.14, Raghuvanahalli, Kanakapura Main Road,
Bengaluru - 560 109.

Dear Sir/Madam,

Sub: Intimation regarding the selection of the project under RGS/F scheme of VGST for
FY 2019-20 – reg.

Greetings from the Department of Science and Technology, GoK & KSTePS and VGST,

We are directed to inform you that your proposal entitled “**Development of Bioinspired Algorithms for Real Time Piracy Detection Systems based on Thermogram Analysis**” Submitted under the VGST scheme of RGS-F for the financial year 2019-2020 has been approved by the Government based on the recommendations of the Selection Committee, Vision Group on Science and Technology under the Chairmanship of Bharat Ratna Prof. CNR Rao, Honorary President, INCASR.

The grant will be released to the Head of the institution by KSTePS. The Principal Investigator and Co Principal Investigator shall be responsible for completion of the stated objectives of the project. The Principal Investigator through the Institution Head shall have to submit the progress report once in three months without fail. The grant shall be used only for the purpose described in the grant application by following due procedures of KTPP Act.

The Government may terminate the grant at any stage, if it is not convinced about the proper utilization of grant and progress made. The total amount released or any unspent balance with accrued interest must be returned back to VGST. Any publications or other dissemination arising from research supported by VGST grants should be properly acknowledged.

A Memorandum of Agreement (MoA) is enclosed and same to be duly signed on Rs. 100/- stamp paper and submit to VGST before 25th November, 2020.

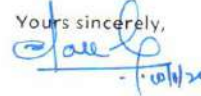
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The sanctioned grant will be sent through NEFT/RTGS to your institution. Hence, it is requested to send the following details on your institutional letter head, sealed and signed by the authorized signatory, by post. A scanned copy of the same may also be sent to visiongroup.st@gmail.com

1. Account Name
2. Account Number
3. IFSC Number
4. Name of the Bank
5. Branch

We would like to personally congratulate and greet you for being selected for VGST program and we wish you a great success in the implementation of the project. For all your future correspondence, you may contact VGST office.

Thanking you and best regards,

Yours sincerely,

- 10/11/24

CC:

- 1) The Principal, K.S. Institute of Technology, No.14, Raghuvanahalli, Kanakapura Main Road, Bengaluru - 560 109.
- 2) The Deputy Secretary to Govt., Dept. of Science and Technology, Room No. 305, 5th Floor, 5th Stage, M.S. Building, Dr. Ambedkar Veedhi, Bengaluru -560 001.
- 3) The Managing Director, Karnataka Science and Technology Promotion Society, Vijnana Bhavana, 3rd Floor, 24/2, 21st Main Road, Banashankari 2nd Stage, Bengaluru- 560070.
- 4) **Mr. Sunil Kumar G R**, Asst. Professor, Dept. of Electronics and Communication Engineering, K.S. Institute of Technology, No.14, Raghuvanahalli, Kanakapura Main Road, Bengaluru - 560 109.



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
office.kscst@iisc.ac.in

Mr. H. Hemanth Kumar
Executive Secretary

16th March 2020

Ref: 7.1.01/SPP/953

The Principal,
K.S. Institute of Technology,
Bengaluru - 560 062.

Dear Sir/Madam,

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

Your Project Proposal Reference No. : 43S_BE_1305

Ref : Your Project Proposal entitled " **RAKSHAK - A BORED WELL RESCUE BOT**

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. Kadri Srinidhi Rao	Budget	
	Ms. Jeevitha Kalaashilpa N C	Particulars	Amount (Rs.)
	Ms. Ashwini S	Materials/Consumables	5,000.00
	Ms. Bhagya Shree S J	Labour	-
Guide/s	Dr. P N Sudha	Travel	-
	-	Miscellaneous	-
Department	Electronics And Communication Engineering	Report	500.00
		Total	5,500.00
	Five Thousand Five Hundred 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] 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
Electronics And Communication Engineering
K.S. Institute Of Technology,
Bengaluru - 560 062.
- 2) Dr. P N Sudha
Department of Electronics And Communication Engineering
K.S. Institute Of Technology,
Bengaluru - 560 062.
- 3) The Finance Officer, KSCST, Bengaluru

Encl: As Above



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
office.kscst@iisc.ac.in

Mr. H. Hemanth Kumar
Executive Secretary

16th March 2020

Ref: 7.1.01/SPP/953

The Principal,
K.S. Institute of Technology,
Bengaluru - 560 062.

Dear Sir/Madam,

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

Your Project Proposal Reference No. : **43S_BE_1303**

Ref : Your Project Proposal entitled " **AUTOMATIC SEGREGATION OF WASTE USING ROBOTIC ARM**

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. Bhoomika P M	Budget	
	Ms. Sonika V	Particulars	Amount (Rs.)
	Ms. Suma B S	Materials/Consumables	4,000.00
	Ms. Vismitha Sonna	Labour	-
Guide/s	Mrs. V Sangeetha	Travel	-
	-	Miscellaneous	-
Department	Electronics And Communication Engineering	Report	500.00
		Total	4,500.00
	Four Thousand Five Hundred 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] 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
Electronics And Communication Engineering
K.S. Institute Of Technology,
Bengaluru - 560 062.
- 2) Mrs. V Sangeetha
Department of Electronics And Communication Engineering
K.S. Institute Of Technology,
Bengaluru - 560 062.
- 3) The Finance Officer, KSCST, Bengaluru

Encl: As Above



K.S. INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
SPONSORED RESEARCH PROJECTS
CAYm2 (2018-19)

Sl. No.	Date	Funding agency/Scheme	Title of project	Name of the coordinator/Guide/PI & Co-PI	Name of the Students	Duration	Amount sanctioned	Status
1	Jan 2019	KSCST SSP-42 Series	Artificial intelligence based solar vehicle	Mr.Sampath kumar S	Mayanka Gupta Anusha murthy Kavya n Chandana G	6 Months	8000/-	Completed
2	May 2019	VTU Financial Assistance for Innovative Projects of Final Year UG Students	Design of an Economic and Portable Continuous Ambulatory Peritoneal Dialysis (CAPD) Assistive Device	Dr.B.Surekha	Thanusha S V Nallani Priya Jagadish S Suhail Y Bhat	6 Months	5000/-	Completed
3	May 2019	VTU Financial Assistance for Innovative Projects of Final Year UG Students	Biomorphic hyper redundant robot for disaster surveillance	Mrs. Lakshmi HR	Nagabhushan Bhat S C Muneeb Fayaz Harhitha R Bhamini Rajanna	6 Months	5000/-	Completed
						Total	18,000/-	

HEAD OF THE DEPARTMENT
Dept. of Electronics & Communication Engg
K.S. Institute of Technology
Bengaluru - 560 109

PRINCIPAL
K.S. INSTITUTE OF TECHNOLOGY
BENGALURU - 560 109.



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,
K.S. Institute of Technology,
No.14, Raghuvanahalli,
Kanakapura Main Road,
Bengaluru - 560 062.

Dear Sir/Madam,

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

Your Project Proposal Reference No. : 42S_BE_2643

Ref : Your Project Proposal entitled " **ARTIFICIAL INTELLIGENCE BASED SOLAR VEHICLE**

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

Students	Ms. Mayanka Gupta and others	Budget	Amount (Rs)
		Materials/Consumables	6,000.00
Guide/s	Mr. Sampath Kumar S	Labor	500.00
		Travel	500.00
Department	Electronics And Communication Engineering	Miscellaneous	500.00
		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 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] and should include following points:
 - Title of the project
 - Name of the College & Department
 - Name of the students & Guide(s)
 - Keywords

V.T.U. INSTITUTE OF TECHNOLOGY, BENGALURU
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGG.

Date: 21/03/2019

VTU-FINANCIAL ASSISTANCE FOR INNOVATIVE PROJECTS OF FINAL YEAR UG STUDENTS

TEAM 1

USN	NAME	Email ID/Mobile NO	Title of the project	GUIDE	Area of Specialization	Technology Used
1KS15EC016	Bhamini Rajanna	bhaminir13@gmail.com / 7892691162	BIOMORPHIC HYPER REDUNDANT ROBOT FOR DISASTER SURVEILLANCE	Mrs. Lakshmi H R	Embedded Systems, IOT & Image Processing	Embedded C & Machine Learning
1KS15EC033	Harshit R	harshithmurthy18@gmail.com / 8892207205				
1KS15EC107	Muneeb Fayaz	muneebf20@gmail.com / 8050493955				
1KS15EC056	Nagabhushana Bhat S C	nagabhushanbhat98@gmail.com / 819727327				

TEAM 2

1KS15EC08	Suhail Yousuf Bhat	suhailyouusuf26@gmail.com / 8825030343	DESIGN OF AN ECONOMIC AND PORTABLE CAPD ASSISTIVE DEVICE	Dr. Surekha B	Embedded Systems & IOT	Embedded C & Android App
1KS16EC417	Jagadish S	jagadishsjaggi@gmail.com / 9916992736				
1KS15EC102	Thanusha S. V	thanusharedy155@gmail.com / 7204714184				
1KS15EC058	Nallani Priya	priyanallani@gmail.com / 9206250877				

B.L.K.

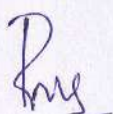
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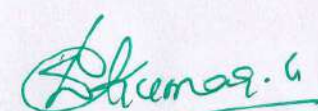
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K.S. INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
SPONSORED RESEARCH PROJECTS
CAYm3 (2017-18)

Sl. No.	Date	Funding agency/Scheme	Title of project	Name of the coordinator/Guide/PI & Co-PI	Name of the Students	Duration	Amount sanctioned	Status
1	Nov 2017	Seed Money to Young Scientists for Research (SMYSR), VGST, Government of Karnataka	Design and Development of Bio-Inspired Algorithms for Confidential Medical Image Communication	Dr.B.Surekha	NA	1 Year	5,00,000/-	Completed
2	May 2018	VTU Financial Assistance for Innovative Projects of Final Year UG Students	smart water irrigation system for even distribution of water with leakage detection and correction	Dr.PN Sudha	Mr. Ullas Pragathi R Raksha Ghosh Shreyas R Y	6 Months	5000/-	Completed
3	May 2018	VTU Financial Assistance for Innovative Projects of Final Year UG Students	Smart tool kit for visually impaired	Pratima BA	Pavan B V Praveen Prasanna Ritu P Simha Tejus D S	6 Months	5000/-	Completed
4	5/4/18	KSCST SSP-41 Series	Body Area Network (BAN) based Smart Security Card System	Mrs. Sangeetha V	C V Chiranthan Anup R Wadavi Ashwin S Krishna Prasad	6 Months	5000/-	Completed
						Total	5,15,000/-	


HEAD OF THE DEPARTMENT
Dept. of Electronics & Communication Engg
K.S. Institute of Technology
Bengaluru - 560 109


PRINCIPAL
K.S. INSTITUTE OF TECHNOLOGY
BENGALURU - 560 109.



GOVERNMENT OF KARNATAKA

Vision Group on Science and Technology

Department of Information Technology, Biotechnology and Science & Technology
Karnataka Government Secretariat, No.702, 7th Floor, 4th Stage, M. S. Building, Dr. Ambedkar Veedhi, Bangalore-560 001
Phone: 080-2203 2013, E-mail: visiongroup.st@gmail.com Website: www.vgst.in

No /VGST/GRD-608 /2016-17/2017-18/100

08-05-2018

To,

The Principal,
K.S. Institute of Technology
Kanakapura Main Road,
Bengaluru-560 109,

Dear Sir,

Subject : Approval for the submission of PART –A for purchase the
Equipment. – GRD - 608

With reference to the approval of GRD –608 K.S. Institute of Technology Kanakapura Main Road, Bengaluru under the scheme SMYSR proposed by **Dr. B. Surekha** the project titled “**Design and Development Of Bio-Inspired Algorithms For Confidential Medical Image Communication**” was released the grant of **Rs 5.00 lakhs** for the FY: 2016-17 (Cheque no:359817 Dt: 21-12-2017).

As submitted the PART– A of GRD-608 by the Grantee Institution requesting for the purchase of Equipment from the grants. The details are as follows

Non-Recurring Budget Estimate under E- Tendering Process for the FY: 2016-17.

Sl NO	Submitted in PART –A under Non –Recurring (ETP) Budget Estimate by Grantee Institution	Amount (Rs)
1	Xilinx Zynq-7000 All Programmable SoC ZC702 Evaluation Kit	3,18,600.00
2	Workstation DELL T430 Intel Xeon E5-2609v4 (8C) ITB (1.7GHz/8c/20MB /85W)2S TOWER SERVER/Equivalent	1,35,000.00
	Total	4,53,600.00

Handwritten signature in blue ink

Recurring Budget Estimate for the FY: 2016-17

Sl .NO	Submitted in PART –A under Recurring Budget Estimate by Grantee Institution	Amount (Rs)
1	Electrical and Electronics Spare parts	7,500.00
2	Mechanical Spare parts	7,500.00
3	Contingency	20,000.00
4	Book Journals	5,000.00
	Total	40,000.00

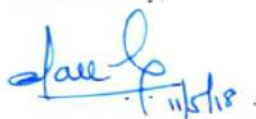
The submitted Proposals and PART - A document details are as follows

Grant Amount	5,00,000.00
TOTAL	5,00,000.00
(A) NON-RECURRING	
E-tendering (ETP)	4,53,600.00
TOTAL	4,53,600.00
(B) RECURRING	
Consumables and Contingency	40,000.00
A+B Total	4,93,600.00
Approval as per (PART - A submitted by GI / PC)	5,00,000.00
BALANCE AMOUNT	6,400.00

In this view, as mentioned in the procurement document (PART-A), you may purchase the equipment through E-Tendering. Please do not deviate the purchase procedure for the procurement of equipment. Please submit the PART-B (Purchase Documents) to the VGST office after completion of the process. This is for your kind information.

With thanks and regards,

Yours sincerely,



(Dr.S.G.Sreekanteshwara Swamy)

Consultant

CC: Dr. B. Surekha Dept. Of Electronics Communication Engineering, K.S.
Institute of Technology Kanakapura Main Road,Bengaluru



KSIT
K.S. INSTITUTE OF TECHNOLOGY

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K.S. GROUP OF INSTITUTIONS
ಕೆ.ಎಸ್. ಕಾಂತ್ರಿಕ ಮಹಾವಿದ್ಯಾಲಯ

K.S. INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to VTU, Belgaum)
14, Raghuvanahalli, Kanakapura Road, Bangalore - 560 062.
Tel : +91 080 28435722 / 724, Fax : +91 80 28435723 www.ksit.ac.in



Date: 3/9/2018

To,
Dr. S. G. Sreekanteswara Swamy
Consultant
Vision Group on Science and Technology (V G S T)
#702, 4th Gate, 7th Floor, M.S. Building,
Dr.Ambedkar Veedhi,
Bengaluru 560001.

Dear Sir,

Sub: Submission of PART-B and PART-C of GRD-608 , VGST-SMYSR Grant

Ref: Your letter No. VGST/GRD-608/2016-17/2017-18/100, Dated 8.5.2018

With reference to the above Ref. No. I am submitting the PART-B and PART-C of Grant Related Document (GRD-608) for project titled "Design and Development of Bio-inspired Algorithms for Confidential Medical Image Communication" which was approved under the SMYSR scheme for the financial year 2016-17.

We express our sincere thanks for the financial support for conducting this research project.

This is for your kind information and needful.

Thanking you,

Principal

3.5.18
PRINCIPAL
K.S. INSTITUTE OF TECHNOLOGY
BENGALURU - 560 102

Yours faithfully,

Principal Investigator

Dr. Surekha B

Dept. of ECE, KSIT, Bengaluru

Enclosures: i) PART-B of GRD-608
ii) Utilization Certificate
iii) PART-C of GRD-608



Kammavari Sangham ® 1952
K.S. GROUP OF INSTITUTIONS
ಕೆ.ಎಸ್. ತಾಂತ್ರಿಕ ಮಹಾವಿದ್ಯಾಲಯ

K.S. INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to VTU, Belgaum)
14, Raghuvanhalli, Kanakapura Road, Bangalore - 560 062.
Tel : +91 080 28435722 / 724, Fax : +91 80 28435723 www.ksit.ac.in



Date: 25/9/2018

To,
Dr. S. G. Sreekanteswara Swamy
Consultant
Vision Group on Science and Technology (V G S T)
#702, 4th Gate, 7th Floor, M.S. Building,
Dr.Ambedkar Veedhi,
Bengaluru 560001.

Dear Sir,
Sub: Submission of Refund amount of GRD-608 , VGST-SMYSR Grant

Ref: Your mail dated 7.9.2018

With reference to the above Ref. No. I am refunding the balance amount of Rs 147/- according to Utilization Certificate of Grant Related Document (GRD-608) for project titled "Design and Development of Bio-Inspired Algorithms for Confidential Medical Image Communication" which was approved under the SMYSR scheme for the financial year 2016-17.

We express our sincere thanks for the financial support for conducting this research project.

This is for your kind information and needful.

Thanking you,

Principal

Yours faithfully,

Principal Investigator

Dr. Surekha B

Dept. of ECE, KSIT, Bengaluru

Enclosures:

1. Cheque (314697) Dated 11/9/18



ANNEXURE – 13

UTILIZATION CERTIFICATE

Program Name: SMYSR

Project Title: Design and Development of Bio-inspired Algorithms for Confidential Medical Image Communication

Sl. No.	Details	Amount
1	Previous year Balance (Opening Balance (OB), If any)	NIL
2	Grants Received (chq no: "359817" chq dt: 21/12/2017)	5,00,000/-
3	Bank Interest (If any)	5,581/-
4	Total Available Grants(1+2+3)	5,05,581/-
5	Actual Grants Utilized (Statement of Expenditure Enclosed)	5,05,434/-
6	Unspent Balance(4-5)	147/-

Certified that Rs. 5 Lakhs of grant-in-aid under (Program Name) was released by Karnataka Science and Technology Promotion Society (KSTePS) in favour of Principal, vide letter No. KSTePS/VGST/SMYSR-2016-17/GRD-608/2017-18/90/366, Dated 21.12.2017 as stated above during the year 2016-17. The above grant was sanctioned towards Project Title "Design and Development of Bio-inspired Algorithms for Confidential Medical Image Communication". Out of sanctioned grants, a sum of Rs. 5 Lakhs has been utilized for the purpose of which it was sanctioned and Rs. NIL remained unutilized at end of the financial year 2016-17 to be carried forward (if the program is continued) or to be refunded (if the program is completed) whichever the case is applicable. Expenditure incurred for the purpose for which the grant was sanctioned is verified with the vouchers produced before me.

Certified that I have satisfied myself that the conditions on which the grant in-aid was sanctioned have been fulfilled and that I have exercised the following checks to ensure that the grant was actually utilized for the purpose for which it was sanctioned.



Department of Electronics & Communication Engg.
K.S. Institute of Technology
Bengaluru - 560 109

Signature and Address of the Project Coordinator

Dr. B. Surekha

Professor, Dept. of ECE, K.S. Institute of Technology, No.14, Raghuvanahakli, Kanakpura Road, Bangalore.




Signature with Seal
Chartered Accountant
(FRN: &M.No)

FRN : 0014915
M.No : 024772


Signature of the Head of Institution and Seal

PRINCIPAL
K.S. INSTITUTE OF TECHNOLOGY
BENGALURU - 560 109

Statement of Expenditure for the Project Title " Design and Development of Bio-inspired Algorithms for Confidential Medical Image Communication"

Sl. No.	Particulars	Total Expenses (Rs.)
1	Total Grants Received (Including Opening Balance & Bank Interest)	5,05,581
> Expenditure Break Up (Each Item wise as approved and sanctioned of Non-Recurring and Recurring Equipments)		
	Non-Recurring (NRE)	
NR1		3,29,800
NR2		1,56,000
A	Total of Non-Recurring Expenditure	4,85,800
	Recurring (RE)	
RE1	Mechanical and Electrical Spare parts	9,238
RE2	Contingencies	10,396
B	Total of Recurring Expenditure	19,634
2	Total Expenditure (A +B)	5,05,434
3	Unspent Balance (1-2)	147

Kind of checks exercised:

1. Vouching
2. Bank Reconciliation
3. Supporting Bills

CERTIFICATE

Certified that we have verified the disbursement of Rs. Five Lakhs (in words) towards GRD-608 as mentioned above.

We have exercised the verification of vouchers and supporting documents to see that the money was actually utilized for the purpose for which it was sanctioned.

Place: Bangalore
Date:

Department of Electronics & Communication Engg.
Signature and Address of the Project Coordinator



Signature with Seal
Chartered Accountant
(FRN: &M.No)
FRN: 0014913
PI No: 024772

Dr.B.Surekha
Professor, Dept. of ECE, K.S.Institute of Technology, No.14, Raghuvanahakli, Kanakpura Road, Bangalore.

Signature of the Head of Institution and Seal

PRINCIPAL
K.S. INSTITUTE OF TECHNOLOGY
BENGALURU - 560 109

Note: Two copies of UC has to be submitted



Visvesvaraya Technological University

"Jnana Sangama", Belgaum - 590 018, Karnataka State

Dr. H.N. Jagannatha Reddy, BE,ME,Ph.D
REGISTRAR

Phone : (0831) 2405468
Fax : (0831) 2405467

Ref. No:VTU/Aca/2018-19/ 1884/24

Date: 4 JUN 2018

To,
The Principal
K.S. Institute of Technology, Bangalore

Sir/Madam,

Sub: Sanction of Financial Assistance to the selected projects of UG students of your Institution

Ref: VTU/Aca/2017-18/9702, dtd: 18th January 2018

With reference to the above subject, please find herewith a D.D Bearing No 636236, Dated 25-May-18 of Rs. 40,000 towards the sanction of Financial Assistance to the selected projects of UG students. You are requested to give the amount to the concerned students and obtain an acknowledgement for the same.

The students' receipt of acknowledgement should be sent to the undersigned on or before 15-6-2018.

Yours faithfully

REGISTRAR

Encl: as above

SM/AC
9.6.18
Gp. project Co-ordinator
Dr. Suresh A/ECE



KSIT
K.S. INSTITUTE OF TECHNOLOGY

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ಕೆ.ಎಸ್. ತಾಂತ್ರಿಕ ಮಹಾವಿದ್ಯಾಲಯ
K.S.INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to VTU, Belgaum)

#14, Raghuvanhalli, Kanakapura Road, Bangalore - 560 062.

Tel : +91 80 28435722 \ 724, Fax : +91 80 28435723 www.ksit.ac.in



Date: 11th June 2018

To,
The Registrar,
VTU,
Gnana Sangama,
Belgaum-590018

Sir,

Sub: Submission of student's receipt of acknowledgement of Financial Assistance
Ref: Sanction letter No.Ref.VTU/Aca/2018-19/1884/24, dtd:4th June 2018


With reference to the above, I acknowledge the receipt of DD bearing No. "636236" dated 25th May 2018 for Rs 40,000/- towards the sanction of financial assistance to the selected projects of UG students. We further gave the amount to the concerned students and received acknowledgements for the same. The student's receipt of acknowledgements is enclosed with this letter for the following projects.

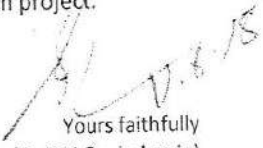
Sl. No.	Title of the Project	Department
1	Smart Tool Kit For The Visually Impaired	ECE
2	Smart Water Irrigation System for Even Distribution of Water with Leakage Detection Correction	ECE
3	Prototype for Automation in Portable Hydroponic /Aquaponic system	TC
4	An Exemplar model for Sun Tracking and Efficient Power Generation using Multi solar Panel	TC
5	Proportional Integral Derivative Controller on Boilers (Temperature and Flow control parameters)	ME
6	Air Braking System using Engine Exhaust Gas	ME
7	In Zone Drug Remedy Using Bot	CSE
8	Raithara Bandhu - A Digitalised Approach	CSE

We express our sincere thanks for the financial support for conducting this research project.

This is for your kind information and needful.

Thanking you,


R & D Coordinator
(Dr.B. Surekha)


Yours faithfully
(Dr.T.V.Govindaraju)

PRINCIPAL
K.S. INSTITUTE OF TECHNOLOGY
BENGALURU - 560 109

Encl: 1) Copy of Sanction letter
2) Receipt of Acknowledgements



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,
K.S. Institute of Technology,
No.14, Raghuvanahalli, Kanakapura Main Road,
Bengaluru - 560 062.

Dear Sir,

Sub : Sanction of Student Project - 41st Series: Year 2017-2018
Your Project Proposal Reference No. : **41S_BE_1541**

Ref : Your Project Proposal entitled " **BODY AREA NETWORK(BAN) BASED SMART SECURITY CARD SYSTEM**

I am happy to inform that your project proposal referred above, has been approved by the Secretary, KSCST for "Student Project Programme - 41st Series" and has been sanctioned with a budgetary break-up as detailed below:

Student / s	Mr. C V Chiranthan and others	Budget	Amount (Rs)
		Materials/Consumables	4,000.00
Guide/s	Prof. Sangeetha V	Labor	-
		Travel	-
Department	Electronics And Communication Engineering	Miscellaneous	500.00
		Report	500.00
		TOTAL	5,000.00
	RUPEES FIVE THOUDSAND		

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 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 [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

Handwritten signature and date: 29.4.18

6) Introduction / background

41S_BE_1541

(with specific reference to the project, work done earlier, etc) - about 20 lines

6) Objectives (about 10 lines)

7) Methodology (about 20 lines)

(materials, methods, details of work carried out, including drawings, diagrams etc)

8) Results and Conclusions

(about 20 lines with specific reference to work carried out)

9) Scope for future work (about 20 lines).

(Note: The write-up (Synopsis) should be sent with the approval of project guide. The softcopy of the write-up, in MS Word format, should be sent by e-mail (spp@kscst.iisc.ernet.in). In your e-mail, please also include project proposal reference number and title of the project.)

e) Projects selected for Seminar / Exhibition will be awarded.

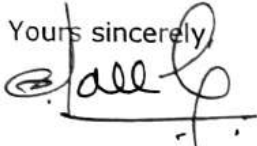
The sanctioned amount will be sent separately by our Accounts Department.

The sponsored projects evaluation will be held in the Nodal Centre and the details of the nodal centre will be intimated shortly 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,



(S.G.S. Swamy)

Copy to:

- 1) The Head of the Department of
Electronics And Communication Engineering
K.S. Institute Of Technology,
No.14, Raghuvanahalli, Kanakapura Main Road,
Bengaluru - 560 062.
- 2) Prof. Sangeetha V
Department of Electronics And Communication Engineering
K.S. Institute Of Technology,
No.14, Raghuvanahalli, Kanakapura Main Road,
Bengaluru - 560 062.
- 3) The Finance Officer, KSCST, Bangalore