

||JAI SRI GURUDEV|| Sri Adichunchanagiri Shikshana Trust ®

SJB INSTITUTE OF TECHNOLOGY



(A Constituent Institution of BGS & SJBIT Group of Institution & Hospitals) No. 67, BGS Health & Education City, Dr. Vishnuvardhan Road, Kengeri, Bengaluru - 560 060

Approved by AICTE - New Delhi. Affiliated to Visvesvaraya Technological University, Belagavi, 2(f) and 12(B) recognized by UGC, New Delhi. Accredited by NAAC, Accredited by NBA. Certified by ISO 9001-2015



	<b>3.1.1</b> Grants received from Government and non-
Criteria 3.1.1	endowments in the institution during the last five
	years (INR in Lakhs)

# Academic Year 2021-22

212

# SJBIT



Sl.No.	Name of the research project/ endowment	Name of the Principal Investigator/Co- investigator	Department of Principal Investigator	Year of Award	Amount Sanctioned	Duration of the project	Name of the Funding Agency	Type (Government/non- Government)
1	Up-gradation of Existing Industry 3.0 Infrastructure to 4.0 to facilitate for Impending Technology August 2021	Dr. K V Mahendra Prashanth	ECE	2021	20.00	2 Years	VGST	Govt
2	Brain Computer Interface and Computational Neuro-Science Lab	Dr. Mahantesh K	ECE	2021	15.00	2 years	VGST	Govt
3	Development of High- Performance Glaucoma Screening Technique for Blindness Prevention using Deep Learning Algorithms	Dr. K Somashekar	ECE	2022	10.00	2 years	VTU	Govt
4	A Sustainable approach for producing Bio Fuel utilizing withered flower waste	Dr. Lakshmi C	CIVIL	2022	3.00	12 Months	AICTE	Govt





5	Mechanical and Tribological Investigation of Severe Plastic Deformation for Nitrided Hybrid Compoistes	Dr. H R Vitala	MECH	2022	8.00	2 Years	VTU	Govt
6	Utilization of Geospatial Technnique in Integrated Water Resource Management in and raound Bidadi and Kumbalagudu Industrial ARea, Bengaluru	Dr. Manjunath HN	CIVIL	2021	0.25	6 Months	WISE	Govt
7	Non Invasive blood Glucose monitoring systemVishruth B Gowda, Dr.Mohan H.S		ISE	2022	0.06	6 Months	KCST	Govt
8	Intelligent Device Control Using Brain Machine Interface	Dr. Mahantesh K	ECE	2022	0.07	6 Months	KSCST	Govt
9	Spyder Robot for Scouting & Defense Purpose	Mrs. Uma S	ECE	2022	0.08	6 Months	KSCST	Govt





10	Develop an efficient Integrated Battery Management System	Mr. Darshan B D	ECE	2022	0.07	6 Months	KSCST	Govt
11	Micro structure Analysis of Black Cotton Soil using Demolition waste	Shrilatha B	CIVIL	2022	0.08	6 Months	KSCST	Govt
12	Design, Analysis and Fabrication of Semi Automated MultiSeed Sowing and Fertilizer Feeder	Chaithra B K	MECH	2022	0.08	6 Months	KSCST	Govt
13	Supply Chain Management for Bio-Desel based Companies	Dr. Mamatha J & Brijesh Singh	MBA	2022	0.06	6 Month	KSCST	Govt



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# SJB INSTITUTE OF TECHNOLOGY

(Affiliated to Visvesvaraya Technological University, Belagavi& Approved by AICTE, New Delhi) Kengeri, Bengaluru-560060.

## **DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

## <u>Grants Sanctioned</u> Academic Year 2021 – 22

2	SI. No.	Name of the Principal Investigator/Faculty	Project Title	Year of Sanction	Funding Agency	Fund Amount	Amount Credited to college Account during current Year		Status
	1	Dr. K V Mahendra Prashanth	Up-gradation of Existing Industry 3.0 Infrastructure to 4.0 to facilitate for Impending Technology	August 2021	VGST	2000000.00	10,00,000.00	2 years	Ongoing
	2	Dr. Mahantesh K	Brain Computer Interface and Computational Neuro-Science Lab	August 2021	VGST	1500000.00	7,50,000.00	2 years	Ongoing
	3	Dr. K Somashekar	Development of High-Performance Glaucoma Screening Technique for Blindness Prevention using Deep Learning Algorithms	March 2022	VTU	1000000.00	-	2 Years	Ongoing
	4	Dr. Mahantesh K	Intelligent Device Control Using Brain Machine Interface	April 2022	KSCST	7000.00	7000.00	6 Months	Ongoing
	5	Mrs. Uma S	Spyder Robot for Scouting & Defense Purpose	April 2022	KSCST	8000.00	8000.00	6 Months	Ongoing
	6	Mr. Darshan B D	Develop an efficient Integrated Battery Management System	April 2022	KSCST	7000.00	7000.00	6 Months	Ongoing

Head

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VISION GROUP ON SCIENCE AND TECHNOLOGY Department of Electronics, IT, BT and S & T, Government of Karnataka

#### List of Proposals recommended by VGST for funding during the year 2020-2021

Scheme: Karnataka Fund for Infrastructure Strengthening in Science and Technology in Higher Educational Institutions (K-FIST L2)

SI. No.	Details of Principal Investigator	Tite of the Project	Subject Name	Funds to be released during the 1st year (Rs. In lakhs)	Funds to be released during the 2nd year (Rs. In lakhs)	Total Amount (Rs. In lakhs)	Cheque to be written in favour of as per proposal
1	Dr. K H Mamatha, Assistant Professor, Department of Civil Engineering, Siddaganga Institute of Technology, B.H.Road , Tumakuru - 572 103.	Use of Construction Waste and Scrap tyres for Sustainable Pavements	Civil Engineering	10.00	10.00	20.00	Principal, SIT, Tumakuru
2	Dr. Ravikumar L, Professor, Department of Mechanical Engineering, B.M.S.College of Engineering, Post Box No. 1908, Bull Temple Road, Bengaluru - 560 019.	Establishment of infrastructure facilitating studies related to impact dynamics/material damping potential estimation from application oriented research/academic perspectives	Mechanical Engineering	10.00	10.00	20.00	The Principal, BMSCE
3	Dr. Suyog Jhavar, Associate Professor, Department of Mechanical Engineering, Atria Institute of Technology, ASKB Campus, AG'S Colony, 1st Main, Anandnagar, Bengaluru - 560 024	Robotic Metal 3D Printing and Post- Processing Using Plasma Additive Manufacturing (AM)	Mechanical Engineering	10.00	10.00	20.00	Principal, Atria Institute of Technology
4	Dr. C. Kavitha, Assistant Professor, Department of Physics, BMS Institute of Technology & Management, Post Box 6443, Avalahalli, Doddaballapura Main Road, Yelahanka, Bengaluru - 560 064.	Efficiency improvement of Ultra-Capacitors using Binary Metal Oxide Nano Composites	Physics	10.00	10.00	20.00	Principal, BMSIT & M
5	Dr. K V Mahendra Prashanth, Professor & Head, Department of Electronics & Communication Engineering, SIB Instituite of Technology, BGS Health & Education City, No. 67, Uttarahalli Road, Kengeri , Bengaluru - 560 060.	Upgradation of existing Industry 3.0 infrastructure to 4.0 to facilitate for Impending Technology	Electronics and Communication Engineering / Telecommunication Engineering	10.00	10.00	20.00	The Principal, SJB Institute of Technology

Prof. M.R.S. Rao Chairman **VGST - Sub Committee** 

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Head

Dept. of Electronics & Communication Eng SJB Institute of Technology rof. C.N.R. Rao, F.R.S., Bengaluru-560060

Chairman

Palaana and Tachaalam.

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ಕರ್ನಾಟಕ ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ಪೋತ್ಸಾಹಕ ಸೊಸೈಐ ವಿದ್ಯುನ್ಮಾನ ಮಾಹಿತಿ ತಂತ್ರಹ್ಞಾನ. ಹೈವಿಕ ತಂತ್ರಹ್ಞಾನ ಹಾಗೂ ವಿಹ್ಞಾನ ಮತ್ತು ತಂತ್ರಹ್ಞಾನ ಇಲಾಬೆ, ಕರ್ನಾಟಕ ಸರ್ಕಾರ

ಿವಿಜ್ಞಾನ ಭವನ' ನಂ: 24/2, 3ನೇ ಮಹಡಿ, 21ನೇ ಮುಖ್ಯ ರಸ್ತೆ, ಬನಶಂಕರಿ 2ನೇ ಹಂತ, ಬೆಂಗಳೂರು–560070 ದೂರವಾಣಿ: 080-26711166 ಇ–ಮೇಲ್: ksteps.dst@gmail.com

ಸಂಖ್ಯೆ: ಕೆಸ್ಟೆಪ್ಸ್/ ವಿತಂದಾಸ /K-FIST L2/GRD No. 938/2020-21/69

ದಿನಾಂಕ: ಆಗಸ್ಟ್ 26, 2021

ಇವರಿಗೆ:

ಡಾ|| ಕೆ ವಿ ಮಹೇಂದ್ರ ಪ್ರಶಾಂತ್, ಮುಖ್ಯ ಪ್ರಾಧ್ಯಾಪಕರು, ಎಲೆಕ್ಟ್ರಾನಿಕ್ಸ್ ಮತ್ತು ಸಂವಹನ ಎಂಜಿನಿಯರಿಂಗ್ ವಿಭಾಗ, ಎಸ್ಜೆಬಿ ಇನ್ಸ್ಟಿಟ್ಯೂಟ್ ಆಫ್ ಟೆಕ್ನಾಲಜಿ, ಬಿಜಿಎಸ್ ಆರೋಗ್ಯ ಮತ್ತು ಶಿಕ್ಷಣ ನಗರ, ನಂ. 67 ಉತ್ತರಹಳ್ಳಿ ರೋಡ್, ಕೆಂಗೇರಿ, ಬೆಂಗಳೂರು-560 060.

ಮಾನ್ಯರೇ,

ವಿಷಯ: 2020-21ನೇ ಸಾಲಿನ ವಿತಂದಾಸ ಯೋಜನೆಯಡಿ ಪ್ರಸ್ತಾವನೆ ಆಯ್ಕೆಯಾಗಿರುವ ಬಗ್ಗೆ.

- ಉಲ್ಲೇಖ: 1) ವಿತಂದಾಸ ಅರ್ಜಿ ಆಹ್ವಾನ ಜಾಹೀರಾತು ಸಂಖ್ಯೆ: DST/KSTePS/VGST/2020-21 ದಿನಾಂಕ: 21.01.2021
  - 2) ಸರ್ಕಾರಿ ಆದೇಶ ಸಂಖ್ಯೆ: ಐಟಿ ಬಿಟಿ 185 ಎಸ್ ಟಿ ಎಸ್ 2021, ಬೆಂಗಳೂರು, ದಿನಾಂಕ: 25.08.2021

ಮೇಲ್ಕಂಡ ವಿಷಯಕ್ಕೆ ಸಂಬಂಧಿಸಿದಂತೆ, ಭಾರತ ರತ್ನ ಪ್ರೊ॥ ಸಿ.ಎನ್.ಆರ್. ರಾವ್ ಎಫ್.ಆರ್.ಎಸ್., ರವರ ಅಧ್ಯಕ್ಷತೆಯಡಿ ರಚಿಸಲಾಗಿರುವ ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ದಾರ್ಶನಿಕ ಸಮೂಹದ (ವಿತಂದಾಸ) ಶಿಫಾರಸ್ಸಿನ ಆಧಾರದ ಮೇಲೆ 2020-21ನೇ ಸಾಲಿನ ವಿತಂದಾಸದ ಕರ್ನಾಟಕದ ಉನ್ನತ ಶಿಕ್ಷಣ ಸಂಸ್ಥೆಗಳಲ್ಲಿ ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನದ ಮೂಲಸೌಕರ್ಯಾಭಿವೃದ್ಧಿಗೆ ನಿಧಿ (K-FIST L2) ಯೋಜನೆಯಡಿ ತಾವು ಸಲ್ಲಿಸಿದ್ದ "Upgradation of existing Industry 3.0 infrastructure to 4.0 to facilitate for Impending Technology" ಶೀರ್ಷಿಕೆಯ ಪ್ರಸ್ತಾವನೆಯು ಆಯ್ಕೆಗೊಂಡು ಸರ್ಕಾರದಿಂದ ಅನುಮೋದನೆಗೊಂಡಿರುತ್ತದೆ ಎಂದು ತಿಳಿಸಲು ಹರ್ಷಿಸುತ್ತೇನೆ

ವಿವಿಧ ಯೋಜನೆಯಡಿ ಆಯ್ಕೆಯಾದ ಸಂಸ್ಥೆ/ಪ್ರಸ್ತಾವನೆಗೆ ಸರ್ಕಾರದಿಂದ ಒದಗಿಸಲಾಗುವ ಅನುದಾನದ ವಿವರವನ್ನು ಅನುಬಂಧ-1 ರಲ್ಲಿ ಲಗತ್ತಿಸಿದೆ.

ಈ ನಿಟ್ಟಿನಲ್ಲಿ, ಈ ಕೆಳಕಂಡ ದಾಖಲೆಗಳನ್ನು ವಿತಂದಾಸ ಕಛೇರಿಗೆ (ನಂ: 702, 7ನೇ ಮಹಡಿ, 4ನೇ ಹಂತ ಬಹುಮಹಡಿ ಕಟ್ಟಡ, ಅಂಬೇಡ್ಕರ್ ವೀದಿ, ಬೆಂಗಳೂರು-560001) ಸಲ್ಲಿಸಲು ಸೂಚಿಸಿದೆ.

- 1) PPMS ನಲ್ಲಿ ಅರ್ಜಿಯೊಂದಿಗೆ ಸಲ್ಲಿಸಲಾಗಿರುವ ಸಂಬಂಧಪಟ್ಟ ಪ್ರಾಧಿಕಾರದ ಸಹಿಯಿರುವ ಕೆಳಕಂದ ದಾಖಲೆಗಳು:
  - a) ಪ್ರಸ್ತಾವನೆ ಯ ಮೂಲ ಪ್ರತಿ 2 ಪ್ರತಿಗಳು
  - b) Part-A ದಾಖಲೆಯ ಮೂಲ ಪ್ರತಿ (ಅನುಬಂಧ-1 ರಲ್ಲಿ ನೀಡಲಾಗಿರುವ ಅನುದಾನದ ವಿವರಕ ಹೊಂದುವಂತೆ ಇರತಕ್ಕದ್ದು)
  - c) Undertaking letter ಮತ್ತು ಸಂಸ್ಥೆಯಿಂದ ನೀಡಲಾಗಿರುವ Endorsement Letter ನ ಮೋ ಪ್ರತಿಗಳು
  - d) ಸಂಶೋಧನಾ ಲೇಖನಗಳ (Publications) ಪ್ರತಿ, CV ಮತ್ತು ಇತರೆ ಸಂಬಂಧಪಟ್ಟ ದಾಖಲೆಗಳು

2) ಅಫಿಡವಿಟ್ (ಅನುಬಂಧ-2 ರಲ್ಲಿ ನೀಡಲಾಗಿರುವ ನಮೂನೆಯಲ್ಲಿ ರೂ. 100/- ರ ಛಾಪಾ ಕಾಗದು

3) ಸಂಸ್ಥೆಯ ಮುಖ್ಯಸ್ಥರ ಲೆಟರ್ ಹೆಡ್ ನಲ್ಲಿ ಅನುದಾನ ಬಿಡುಗಡೆಗೆ ಸಂಸ್ಥೆಯ ಬ್ಯಾಂಕ್ ಖಾತೆಯ ಕೆಳಕಂಡ ವಿವರ (ಸಂಸ್ಥೆಯ ಮುಖ್ಯಸ್ಥರ ಖಾತೆಯ ವಿವರವನ್ನು ಮಾತ್ರ ನೀಡತಕ್ಕದ್ದು):

> ಖಾತೆಯ ಹೆಸರು: ಖಾತೆಯ ಸಂಖ್ಯೆ: ಬ್ಯಾಂಕ್ ನ ಹೆಸರು ಮತ್ತು ಶಾಖೆ: IFSC ಸಂಖ್ಯೆ:

ಮುಂದುವರಿದು, ತಮ್ಮ ಯೋಜನೆಯ ಜಿ. ಆರ್. ಡಿ. ಸಂಖ್ಯೆ 938 ಆಗಿದ್ದು, ಮುಂದಿನ ಎಲ್ಲಾ ಪತ್ರ ವ್ಯವಹಾರಗಳಿಗೆ ಈ ಸಂಖ್ಯೆಯನ್ನು ತಪ್ಪದೇ ನಮೊದಿಸಲು ಸೂಚಿಸಿದೆ.

ಈ ಎಲ್ಲಾ ದಾಖಲೆಗಳನ್ನು ದಿನಾಂಕ: 8ನ್ನೇ ಸೆಪ್ಟೆಂಬರ್, 2021 ರೊಳಗಾಗಿ ವಿತಂದಾಸ ಕಛೇರಿಗೆ ಸಲ್ಲಿಸಲು ಕೋರಿದೆ. ಹೆಚ್ಚಿನ ಮಾಹಿತಿಗೆ ದೂರವಾಣಿ ಸಂಖ್ಯೆ: 080-2203-2013/ ಇಮೇಲ್: visiongroup.st@gmail.com ನ್ನು ಸಂಪರ್ಕಿಸಬಹುದು.

ಧನ್ಯವಾದಗಳೊಂದಿಗೆ,

ನಿರ್ದೇಶಕರು (ತಾಂತ್ರಿಕ), ವಿತಂ

ವ್ಯವಸ್ಥಾಪಕ ನಿರ್ದೇಶಕರು, ಕೆಸ್ಟೆಪ್ಸ್

ಪುತಿ:

- 1) ಪ್ರಾಂಶುಪಾಲರು, ಎಸ್ಜೆಬಿ ಇನ್ಸ್ಟಿಟ್ಯೂಟ್ ಆಫ್ ಟೆಕ್ನಾಲಜಿ, ಬಿಜಿಎಸ್ ಆರೋಗ್ಯ ಮತ್ತು ಶಿಕ್ಷಣ ನಗರ, ನಂ. 67 ಉತ್ತರಹಳ್ಳಿ ರೋಡ್, ಕೆಂಗೇರಿ, ಬೆಂಗಳೂರು-560 060. 2) ಶ್ರೀ/ಶ್ರೀಮತಿ ಭಾಸ್ಕರ್ ಬೆಳವಡಿ, ಸಹ ಪ್ರಾಧ್ಯಾಪಕರು, ಎಲೆಕ್ಟ್ರಾನಿಕ್ಸ್ ಮತ್ತು ಸಂವಹನ ಎಂಜಿನಿಯರಿಂಗ್
- ವಿಭಾಗ, (Co-PI), ಎಸ್ಜೆಬಿ ಇನ್ಸ್ಟಿಟ್ಯೂಟ್ ಆಫ್ ಟೆಕ್ನಾಲಜಿ, ಬಿಜಿಎಸ್ ಆರೋಗ್ಯ ಮತ್ತು ಶಿಕ್ಷಣ ನಗರ, ನಂ. 67, ಉತ್ತರಹಳ್ಳಿ ರೋಡ್, ಕೆಂಗೇರಿ, ಬೆಂಗಳೂರು-560 060. 3) ಸರ್ಕಾರದ ಜಂಟಿ ಕಾರ್ಯದರ್ಶಿ, ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ಇಲಾಖೆ, ಕೋಠಡಿ ಸಂಖ್ಯೆ: 305, 5ನೇ
- ಮಹಡಿ, 5ನೇ ಹಂತ, ಬಹುಮಹಡಿ ಕಟ್ಟಡ, ಡಾ॥ ಅಂಬೇಡ್ಕರ್ ವೀದಿ, ಬೆಂಗಳೂರು 560 001.

4) ಕಛೇರಿ ಪ್ರತಿ.

Dept. of Electronics & Communication Enge SIB Institute of Technology Bengaluru-560060



of Technology **BGS Health & Education City** No. 67, Uttarahalli Road, Kengeri Bangalore South - 560 060



VISION GROUP ON SCIENCE AND TECHNOLOGY

Department of Electronics, IT, BT and S & T, Government of Karnataka

List of Proposals recommended by VGST for funding during the year 2020-2021

Scheme: Karnataka Fund for Infrastructure Strengthening in Science and Technology in Higher Educational Institutions (K-FIST L1)

SI. No.	Details of Principal Investigator	Tite of the Project	Subject Name	Branch Name	Funds to be released during the 1st year (Rs. In lakhs)	Funds to be released during the 2nd year (Rs. In lakhs)	Total Amount (Rs. In lakhs)	Cheque to be written in favour of as per proposal
1	Dr. Mahantesh K, Associate Professor, Department of Electronics and Communication Engineering, SJB Institute of Technology, BGS Health & Education City, No. 67, Uttarahalli Road, Kengeri, Bengaluru - 560 060.	Brain Computer Interface and Computational Neuroscience Lab	Computational and Mathematical Sciences	Computational Mathematical Programming	7.50	7.50	15.00	SJB Institute of Technology
2	Dr. Swati Sinha, Assistant Professor, Department of Biotechnology, M. S. Ramaiah University of Applied Sciences, University House, Gnanagangothri Campus, New BEL Road, MSR Road, Bengaluru - 560 054.	To study the effect of Mahanine, a carbazole alkaloid, on metastasis in androgen independent prostate cancer	Medical & Life Sciences	Molecular Mechanism	7.50	7.50	15.00	M. S. Ramaiah University of Applied Sciences
3	Dr. Kalpana Chikatwar, Professor, Department of E & CE, Bheemanna Khandre Institute of Technology, Bhalki-Humnabad Road, Bidar, Bhalki - 585 328.	Design and Development of Gap- Coupled planar microstrip antennas for WLAN, Wi-Max and Blue- tooth applications.	Electronics and Communication Engineering / Telecommunication Engineering	Antenna Design	7.50	7.50	15.00	Principal, BKIT Bhalki
4	Dr. Jayaraj Yallappa Kudariyavar, Assistant Professor, Department of Mechanical Engineering, S.D.M. College of Engineering & Technology, Dhavalgiri, Kalghatgi Road, Dharwad - 580 002.	Investigations on Thermal-Hydraulic Behaviour of Inclined Natural Circulation Loop	Mechanical Engineering	Fluid /Structural Dynamics	7.50	7.50	15.00	Principal, SDM College of Engineering & Technology, Dharwad.
5	Dr. N J Krishna Prasad, Associtae Professor, Department of Industrial Engineering and Management, Bangalore Institute of Technology, K.R.Road, V.V.Pura, Bengaluru - 560 004.	Effect of Minor Additions of Copper to newly developed Nickel Coated Al- Beryl Composite Materials	Mechanical Engineering	Materials/Composi tes Metallurgical Engineering	7.50	7.50	15.00	Principal, BIT

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Head

Dept. of Electronics & Communication Eng SJB Institute of Technology Bengaluru-560060

Prof. M.R.S. Rao Chairman **VGST - Sub Committee** JNCASR, Jakkur Campus, Bangalore-560 064

Prof. C.N.R. Rao, F.R.S.,

Chairman Science and Technology



ವಿದ್ಯುನ್ಮಾನ ಮಾಹಿತಿ ತಂತ್ರಜ್ಞಾನ. ಹೈವಿಕ ತಂತ್ರಜ್ಞಾನ ಹಾಗೂ ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ಇಲಾಬೆ, ಕರ್ನಾಟಕ ಸರ್ಕಾರ 'ವಿಜ್ಞಾನ ಭವನ' ನಂ: 24/2, 3ನೇ ಮಹಡಿ, 21ನೇ ಮುಖ್ಯ ರಸ್ತೆ, ಬನಶಂಕರಿ 2ನೇ ಹಂತ, ಬೆಂಗಳೂರು–560070 ದೂರವಾಣಿ: 080-26711166 ಇ–ಮೇಲ್: ksteps.dst@gmail.com

ಸಂಖ್ಯೆ: ಕೆಸ್ಟೆಪ್ಸ್/ ವಿತಂದಾಸ /K-FIST L1/GRD No. 944/2020-21/79

ದಿನಾಂಕ: ಆಗಸ್ಟ್ 26, 2021

ಇವರಿಗೆ:

ಡಾ|| ಮಹಾಂತೇಶ್. ಕೆ.

ಸಹ ಪ್ರಾಧ್ಯಾಪಕರು,

ಎಲೆಕ್ಟ್ರಾನಿಕ್ಸ್ ಮತ್ತು ಸಂವಹನ ಎಂಜಿನಿಯರಿಂಗ್ ವಿಭಾಗ,

ಎಸ್ಜೆಬಿ ಇನ್ಸಟ್ಯೂಟ್ ಆಫ್ ಟೆಕ್ನಾಲಜಿ,

ಬಿಜಿಎಸ್ ಆರೋಗ್ಯ ಮತ್ತು ಶಿಕ್ಷಣ ನಗರ,

ನಂ. 67, ಉತ್ತರಹಳ್ಳಿ ರೋಡ್, ಕೆಂಗೇರಿ,

ಬೆಂಗಳೂರು-560 060.

ಮಾನ್ಯರೇ,

ವಿಷಯ: 2020-21ನೇ ಸಾಲಿನ ವಿತಂದಾಸ ಯೋಜನೆಯಡಿ ಪ್ರಸ್ತಾವನೆ ಆಯ್ಕೆಯಾಗಿರುವ ಬಗ್ಗೆ.

- ಉಲ್ಲೇಖ: 1) ವಿತಂದಾಸ ಅರ್ಜಿ ಆಹ್ವಾನ ಜಾಹೀರಾತು ಸಂಖ್ಯೆ: DST/KSTePS/VGST/2020-21 ದಿನಾಂಕ: 21.01.2021
  - 2) ಸರ್ಕಾರಿ ಆದೇಶ ಸಂಖ್ಯೆ: ಐಟಿ ಬಿಟಿ 185 ಎಸ್ ಟಿ ಎಸ್ 2021, ಬೆಂಗಳೂರು, ದಿನಾಂಕ: 25.08.2021

ಮೇಲ್ಕಂಡ ವಿಷಯಕ್ಕೆ ಸಂಬಂಧಿಸಿದಂತೆ, ಭಾರತ ರತ್ನ ಪ್ರೊ॥ ಸಿ.ಎನ್.ಆರ್. ರಾವ್ ಎಫ್.ಆರ್.ಎಸ್., ರವರ ಅಧ್ಯಕ್ಷತೆಯಡಿ ರಚಿಸಲಾಗಿರುವ ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ದಾರ್ಶನಿಕ ಸಮೂಹದ (ವಿತಂದಾಸ) ಶಿಫಾರಸ್ಸಿನ ಆಧಾರದ ಮೇಲೆ 2020-21ನೇ ಸಾಲಿನ ವಿತಂದಾಸದ ಕರ್ನಾಟಕದ ಉನ್ನತ ಶಿಕ್ಷಣ ಸಂಸ್ಥೆಗಳಲ್ಲಿ ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನದ ಮೂಲಸೌಕರ್ಯಾಭಿವೃದ್ಧಿಗೆ ನಿಧಿ (K-FIST L1) ಯೋಜನೆಯಡಿ ತಾವು ಸಲ್ಲಿಸಿದ್ದ "Brain Computer Interface and Computational Neuroscience Lab" ಶೀರ್ಷಿಕೆಯ ಪ್ರಸ್ತಾವನೆಯು ಆಯ್ಕೆಗೊಂಡು ಸರ್ಕಾರದಿಂದ ಅನುಮೋದನೆಗೊಂಡಿರುತ್ತದೆ ಎಂದು ತಿಳಿಸಲು ಹರ್ಷಿಸುತ್ತೇನೆ.

ವಿವಿಧ ಯೋಜನೆಯಡಿ ಆಯ್ಕೆಯಾದ ಸಂಸ್ಥೆ/ಪ್ರಸ್ತಾವನೆಗೆ ಸರ್ಕಾರದಿಂದ ಒದಗಿಸಲಾಗುವ ಅನುದಾನದ ವಿವರವನ್ನು **ಅನುಬಂಧ-1** ರಲ್ಲಿ ಲಗತ್ತಿಸಿದೆ.

ಈ ನಿಟ್ಟಿನಲ್ಲಿ, ಈ ಕೆಳಕಂಡ ದಾಖಲೆಗಳನ್ನು ವಿತಂದಾಸ ಕಛೇರಿಗೆ (ನಂ: 702, 7ನೇ ಮಹಡಿ, 4ನೇ ಹಂತ, ಬಹುಮಹಡಿ ಕಟ್ಟಡ, ಅಂಬೇಡ್ಕರ್ ವೀದಿ, ಬೆಂಗಳೂರು-560001) ಸಲ್ಲಿಸಲು ಸೂಚಿಸಿದೆ.

- 1) PPMS ನಲ್ಲಿ ಅರ್ಜಿಯೊಂದಿಗೆ ಸಲ್ಲಿಸಲಾಗಿರುವ ಸಂಬಂಧಪಟ್ಟ ಪ್ರಾಧಿಕಾರದ ಸಹಿಯಿರುವ ಕೆಳಕಂಡ ದಾಖಲೆಗಳು:
  - a) ಪ್ರಸ್ತಾವನೆ ಯ ಮೂಲ ಪ್ರತಿ 2 ಪ್ರತಿಗಳು
  - b) Part-A ದಾಖಲೆಯ ಮೂಲ ಪ್ರತಿ (ಅನುಬಂಧ-1 ರಲ್ಲಿ ನೀಡಲಾಗಿರುವ ಅನುದಾನದ ವಿವರಕ್ಕೆ ಹೊಂದುವಂತೆ ಇರತಕ್ಕದ್ದು)
  - c) Undertaking letter ಮತ್ತು ಸಂಸ್ಥೆಯಿಂದ ನೀಡಲಾಗಿರುವ Endorsement Letter ನ ಮೂಲ ಪ್ರತಿಗಳು
  - d) ಸಂಶೋಧನಾ ಲೇಖನಗಳ (Publications) ಪ್ರತಿ, CV ಮತ್ತು ಇತರೆ ಸಂಬಂಧಪಟ್ಟ ದಾಖಲೆಗಳು L of Electronics & Commun

2) ಅಫಿಡವಿಟ್ (ಅನುಬಂಧ-2 ರಲ್ಲಿ ನೀಡಲಾಗಿರುವ ನಮೂನೆಯಲ್ಲಿ ರೂ. 100/- ರ ಛಾಪಾ ಕಾಗದದ ಮೇಲೆ ನೀಡತಕ್ಕದ್ದು).

3) ಸಂಸ್ಥೆಯ ಮುಖ್ಯಸ್ಥರ ಲೆಟರ್ ಹೆಡ್ ನಲ್ಲಿ ಅನುದಾನ ಬಿಡುಗಡೆಗೆ ಸಂಸ್ಥೆಯ ಬ್ಯಾಂಕ್ ಖಾತೆಯ ಕೆಳಕಂಡ ವಿವರ (ಸಂಸ್ಥೆಯ ಮುಖ್ಯಸ್ಥರ ಖಾತೆಯ ವಿವರವನ್ನು ಮಾತ್ರ ನೀಡತಕ್ಕದ್ದು):

> ಖಾತೆಯ ಹೆಸರು: ಖಾತೆಯ ಸಂಖ್ಯೆ: ಬ್ಯಾಂಕ್ ನ ಹೆಸರು ಮತ್ತು ಶಾಖೆ: IFSC ಸಂಖ್ಯೆ:

ಮುಂದುವರಿದು, ತಮ್ಮ ಯೋಜನೆಯ ಜಿ. ಆರ್. ಡಿ. ಸಂಖ್ಯೆ 944 ಆಗಿದ್ದು, ಮುಂದಿನ ಎಲ್ಲಾ ಪತ್ರ ವ್ಯವಹಾರಗಳಿಗೆ ಈ ಸಂಖ್ಯೆಯನ್ನು ತಪ್ಪದೇ ನಮೊದಿಸಲು ಸೂಚಿಸಿದೆ.

ಈ ಎಲ್ಲಾ ದಾಖಲೆಗಳನ್ನು ದಿನಾಂಕ: 8ನೇ ಸೆಪ್ಟೆಂಬರ್, 2021 ರೊಳಗಾಗಿ ವಿತಂದಾಸ ಕಛೇರಿಗೆ ಸಲ್ಲಿಸಲು ಕೋರಿದೆ. ಹೆಚ್ಚಿನ ಮಾಹಿತಿಗೆ ದೂರವಾಣಿ ಸಂಖ್ಯೆ: 080-2203-2013/ ಇಮೇಲ್: visiongroup.st@gmail.com ನ್ನು ಸಂಪರ್ಕಿಸಬಹುದು.

ಧನ್ಯವಾದಗಳೊಂದಿಗೆ,

ವ್ಯವಸ್ಥಾಪಕ ನಿರ್ದೇಶಕರು, ಕೆಸ್ಟೆ

. . ، گرنت

- √ ಪ್ರಾಂಶುಪಾಲರು, ಎಸ್ಜಿಬಿ ಇನ್ಸ್ಟಿಟ್ಯೂಟ್ ಆಫ್ ಟೆಕ್ನಾಲಜಿ, ಬಿಜಿಎಸ್ ಆರೋಗ್ಯ ಮತ್ತು ಶಿಕ್ಷಣ ನಗರ, ನಂ. 67, ಉತ್ತರಹಳ್ಳಿ ರೋಡ್, ಕೆಂಗೇರಿ, ಬೆಂಗಳೂರು-560 060.
- 2) ಡಾ|| ಅಜಯ್ ಪ್ರಕಾಶ್. ಬಿ ವಿ, (Co-PI), ಸಹ ಪ್ರಾಧ್ಯಾಪಕರು, ಕಂಪ್ಯೂಟರ್ ವಿಜ್ಞಾನ ಮತ್ತು ಎಂಜಿನಿಯರಿಂಗ್, ಎಸ್ಜೆಬಿ ಇನ್ಸ್ಟಿಟ್ಯೂಟ್ ಆಫ್ ಟೆಕ್ನಾಲಜಿ, ಬಿಜಿಎಸ್ ಆರೋಗ್ಯ ಮತ್ತು ಶಿಕ್ಷಣ ನಗರ, ನಂ. 67, ಉತ್ತರಹಳ್ಳಿ ರೋಡ್, ಕೆಂಗೇರಿ, ಬೆಂಗಳೂರು-560 060.

3) ಸರ್ಕಾರದ ಜಂಟಿ ಕಾರ್ಯದರ್ಶಿ, ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ಇಲಾಖೆ, ಕೋಠಡಿ ಸಂಖ್ಯೆ: 305, 5ನೇ ಮಹಡಿ, 5ನೇ ಹಂತ, ಬಹುಮಹಡಿ ಕಟ್ಟಡ, ಡಾ|| ಅಂಬೇಡ್ಕರ್ ವೀದಿ, ಬೆಂಗಳೂರು – 560 001. 4) ಕಛೇರಿ ಪ್ರತಿ.

Dept. of Electronics & Communication Eng SJB Institute of Technology Bengaluru-560060



SJB Institute of Technology BGS Health & Education City No. 67, Uttarahalli Road, Kengeri Bangalore South - 560 060



("ಏ ಟ ಯುಕು ಅಧಿನಿಯಮ ೧೯೯೪" ರ ಅಡಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿತವಾದ ರಾಜ್ಯ ವಿಶ್ವವಿದ್ಯಾಲಯ) 'ಜ್ಯಾನ್ ಸರಗಮ', ಬೆಳಗಾವಿ - ೫೯೦ ರಗಿಲ ಕರ್ನಾಟಕ ರಾಜ್ಯ

## Visvesvaraya Technological University

State University of Government of Karnataka Established as per the VTU Act, 1994) "Jnana Sangama", Belagavi-590 018. Karnataka State, India

Prof. A. S. Deshpande B.E., M.Tech., Ph.D. REGISTRAR

Phone : (0831) 2498100

 REGISTRAR
 Fax
 : (0831) 2405467

 Ref: VTU/BGM/Aca/A-12/ VTU RGS/DIS -EEE/2021-22/ 6066/21
 Date
 2 MAR
 2077

## To, The Principal, SJB Institution of Technology, Bengaluru

Sub: Grants for Research Proposal for the year 2021-22 Ref: 1. VTU/Aca./2021-22/ PS/2019-20/9707, dated 18-3-2020. 2. Hon'ble Vice-Chancellor's approval dt:11-02-2022.

## At the outset please accept our congratulations and greetings.

We are pleased to inform you that, the grant of Rs. 10.00 Lakhs (Rupees Ten Lakh only) is being sanctioned for the research proposal entitled as "Deveopment of High Performance Glaucoma Screening Technique for Blindness Prevention using Deep Learning Algorithms..." submitted by Dr. K Somashekar (PI) and Dr. Supreeth H S G (CoI) under VTU Research Grants Scheme -2021.

The expenditure of the sanctioned amount needs to be planned as under.

Ilowship for Research Scholar uipments/Software/Instruments urchase of Desktops/Laptops are not Permitted ) nsumables (Glass wares/Chemicals) hers (Expenditure towards/ testing / consultancy / plications of research work in terms IPR	1.20 5.00 0.75	in Lakhs) 1.20 1.00 0.50	Lakhs 2.40 6.00
urchase of Desktops/Laptops are not Permitted ) nsumables (Glass wares/Chemicals) ners (Expenditure towards/ testing / consultancy /			
ners (Expenditure towards/ testing / consultancy /	0.75	0.50	
			1.25
gistrations (not for paper publications in (rnals) / TA DA to present a paper in conferences	0.25	0.10	0.35
Total (Rs. in Lakhs)	7.20	2.80	10.00
be released after receiving the acceptance letter and	5.40	2.10	7.50
	1.80	0.70	2.50
	workshop or symposia in India .	workshop or symposia in India .         Total (Rs. in Lakhs)       7.20         on (75% of the Sanctioned Amount)       5.40         be released after receiving the acceptance letter and ont Number 10,11 &12 mentioned in "Terms and ribution (25% of the Sanctioned Amount)       5.40         ribution (25% of the Sanctioned Amount)       5.40         oint number 10,11 &12 in the "Terms and comply accordingly       1.80	Total (Rs. in Lakhs)       7.20       2.80         on (75% of the Sanctioned Amount)       be released after receiving the acceptance letter and int Number 10,11 &12 mentioned in "Terms and       5.40       2.10         ribution (25% of the Sanctioned Amount)       on the "Terms and       1.80       0.70

## Applicable Terms and Conditions:

- 1. The grant will be released in the name of the Principal of the Institute and Principal Investigator of the project.
- 2. The grant shall be utilized for the purpose for which it has been sanctioned.
- 3. The research activities of the sanctioned projects will be evaluated at the end of each year by committee constituted by VTU. Also, the LIC team of VTU may review the progress.
- 4. Change in heads of expenditure mentioned in the table on the previous page is not permitted.
- 5. The grantee institute has to abide by the guidelines of VTU Research Grant Scheme.
- 6. VTU reserves all the rights to change/modify rules/guidelines in this regard.
- 7. The Principal of the institute shall submit year wise Utilization Certificate (UC) and in the prescribed format and Audit Report (Duly signed by CA) to the undersigned. The subsequent grant will be released only after submission of UC for the grant released earlier along with details of expenditure and satisfactory work progress report.
- 8. The project will last for two years from the day that the Grantee Institute receives the amount of first Installment.
- 9. Any correspondence by the Investigators to the Registrar of VTU shall be routed through the Principal of the Grantee Institute
- 10. VTU shall release the amount of first installment, after an exclusive Joint Bank Account for the sanctioned project is opened and remitted the Institute share of 25% of the First Year Installment as mentioned in the above table and same shall be intimated to VTU by submitting copy of account statement.
- 11. The exclusive Bank Account must be Join Account in the name of Principal of the Institute and Principal Investigator with the title of the project mentioned as purpose.
- 12. Grantee Institute shall submit account details in the mandate form (enclosed) along with duly signed acceptance letter (Format Enclosed). These are required for issuing the order and release of fund from our end.

Thanking you.

Yours faithfully, Registrar 694

Encl: 1) Format of Mandate Form 2) Format of Acceptance letter

Head

Dept. of Electronics & Communication Enge SJB Institute of Technology Bengaluru-560060



SJB Institu lite of BGS Health & Education City No. 67, Uttarahalli Road, Kengeri Bangalore South - 560 060



## File No. STDC/MIC/GRANT/215/2021-22/ 8

Dated: 29.03.2022

## All India Council for Technical Education (A Statutory body under Ministry of Education, Govt. of India) Nelson Mandela Marg, Vasant Kunj, New Delhi-110070 Website: www.aicte-india.org

Grant Support to Innovations - Sanction Letter

To

The Drawing and Disbursing Officer, All India Council for Technical Education, Nelson Mandela Marg, Vasant Kunj, New Delhi - 110070

Sanction of Rs. 300000/- ( Rs. Three Lakh only) being the Grant-in-Aid under the scheme of Grant Support Sub: to Innovations, MIC for the year 2021-22 payable during the current financial year 2021-22 to S J B Institute

Sir,

With reference to the approval of the Council, this is to convey the sanction for payment of Rs. 300000/- ( Rs. Three Lakh only) as Grant-in-Aid under the Grant Support to Innovations, MIC Scheme for Innovation titled 'A Sustainable Approach for Producing Bio-fuel Utilizing Withered Flower Waste' as per details given below: -

1.	Name and address of the Beneficiary Institution/ Institute / Incubation Unit	S J B Institute of Technology, S J B Institute of Technology, No.67, BGS Health & Education City, Dr.Vishnuvardhan Rd,
2.	Name of the Team Leader:	Kengeri, Bengaluru, Karnataka, Pin- 560060 Dr. LAKSHMI.C
3.	Duration of the scheme:	and the second se
4.	Total Grant-in-aid Sanctioned:	1 (one) year upto 31-03-2023 Rs. 300000/-
5.	1 <sup>st</sup> Phase Amount (50% of Grant- in-Aid) to be released during the year 2021-22:	Rs.150000/-
6.	Sanctioned grant-in-aid is debitable to:	603.2 (a) General (MIC)
7.	The authorized officer in whose favour Cheque/ Demand Draft/ RTGS is to be made	Principal S J B Institute of Technology

- The amount of the Grant shall be drawn by the Drawing and Disbursing Officer, All India Council for Technical 1. Education on the Grant-in-Aid bill and shall be disbursed to and credited to the account of Director/Principal
- This Grant-in-Aid is being released in conformity with the terms & conditions as well as norms of the scheme as 2 already communicated, and also being communicated in this letter.

Page 1 of 7

Coms

Head of Department Department of Civil Engineering S J B Institute of Technology Uttarahalli Road, Kengeri Bengaluru-560 060

### File No. STDC/MIC/GRANT/215/2021-22/ 8

### The instructions/guidelines to be followed by University/Institution/Incubation Unit

### I. Release of funds

a. The Director/Principal is hereby requested to verify the correctness of the under mentioned bank account/ RTGS details submitted by them along with the proposal, in which the grant is being released:

Institute/I neubation PAN No.	Bank Name	Bank Branch Name	Bank Branch Address	Account Holder Name	Account Type	Account Number	IFSC Code
AAATS3584P	Canara Bank	BGS Health and Education City		Principal S J B Institute of Technology	Savings Account	2890101004792	CNRB0002890

In case of any omission the same should be reported to AICTE immediately.

- b. The sanction is issued in exercise of the powers delegated to the council and other terms & conditions laid down in the guidelines of the scheme.
- c. 50% of the total sanctioned project amount as grant-in-aid is being released to the Institute / Incubation Unit. Next 50% will be released after 06 months or achieving 50% milestone, whichever is earlier, based on the framework developed by MIC. Student Development Cell will process the payment of next instalment on receipt of Satisfactory Report from MIC duly approved by Competent Authority.
- d. The activities related to the project for which funds have been disbursed shall be closely monitored by MIC.

#### II. Maintenance of accounts

- a. The Institute shall strictly follow the guidelines issued by this office.
- b. Funds covered by this grant shall be kept separately and would not be mixed up with other funds, so as to know the amount of interest accrued on the grant.
- c. The Institute shall maintain proper accounts of the expenditure out of the grants, which shall be utilized only on the scheme/specified project.
- d. The Council or its nominee shall have the right to check/verify the account to satisfy that the fund has been utilized for the purpose for which it was sanctioned.
- e. The date of announcement of result by AICTE shall be taken as the commencement of the project. The Team / Start up can submit the details of expenditure with bills and vouchers at the incubation unit (or) institution for reimbursement of any expenses incurred by them towards procurement of equipment, materials, items for the innovation project work during the period between the announcement of result by AICTE and release of grant. In such cases, respective institution needs to verify the expense details and bills and ensure that these expenses were made for development of the innovation project sanctioned by AICTE only.
- f. The amount of interest accrued on the grant should be treated as part of the grant to be utilized for that particular project. However, the interest amount accrued along with grant disbursed should not exceed the total grant sanctioned for the project. The Institute receiving the grant should reflect the same in the audited statement of accounts/ utilization certificate and may either refund the interest amount to AICTE.
- g. After receipt of the grant from AICTE, the Institute/ Incubation Unit shall send a confirmation to AICTE within one (01) month of receipt of grant that the sanctioned project has been started/is in progress.

Page 2 of 7

Head of Department Head of Department Department of Civil Engineering S J B Instit te of Technology Uttarahalli Road, Kengeri Bengaluru-560 060

### Dated: 29.03.2022

## File No. STDC/MIC/GRANT/215/2021-22/8

### III. Instructions for Implementation of project funds

- Approximately 50-60% of the total fund granted to an innovation team can be used for technology development/process development/innovation refinement and market research. This budget category may include expenses incurred towards above activities, logistics and procurement of raw materials, expenses to carry out market research, mentorship and fees related to incubation services availed through incubation unit (if chargeable).
- Up to 20% may be utilized towards cost of startup registration as per DPIIT norm and consultation, IP filing, legal and fulfillment of other regulatory compliances towards operationalization the startup activities and launch of product/services.
- 3. Up to 10% may be utilized towards participation fee and travel to represent or participate in any national level competition / exhibition/ training / workshop related Innovation/Startup/IPR.
- 4. Up to 10% may be used for miscellaneous activities related to above categories.
- 5. Advance to student team lead can be given for the expense and settlement for which original receipt of expenses duly signed by student team lead will be submitted to the Institute on monthly basis.
- 6. A copy of summary of expenses should be provided to the students by Institute on monthly basis.
- Guidelines regarding procurement of equipment, material & items for the Innovation Project Work and procedure for taking reimbursement of expenses are incorporated as Annexure –I of this Sanction Letter.

### IV. Refund of grant (by way of a demand draft in favor of Member Secretary, AICTE, New Delhi)

- a. In any case, if the institute is required to refund the grant or interest accrued thereon or balance amount, the amount will be refunded to AICTE. Consent from the concerned team lead with duly signed copy need to be attached.
- b. If project is not started within three (03) months after the issuance of this Sanction Letter, the released amount, along with interest accrued thereon, has to be necessarily returned to AICTE.
- c. It may be ensured that the project is completed within the stipulated time. If the project is not completed in time, no further extension will be granted in any case and institute has to refund the entire amount to AICTE.
- d. As AICTE needs adequate time for depositing the Demand Draft in the bank, the same be immediately dispatched to avoid any lapse of the validity period.

## V. Submission of documents by college / institution / Incubation Unit after completion of project

The following mandatory relevant documents are required to be submitted by the college/institution within one month of the completion of the Project: -

- a. Feedback form in the prescribed proforma (finalized / given by MIC).
- b. Original Statement of actual expenditure in the prescribed proforma duly signed by the Head of the institution and countersigned by Registrar/Finance Officer/Govt. Auditor

Note: The institution is not required to submit bills/ vouchers/ invoices etc. for the expenditure incurred out of recurring grants. However, such copies of bills/ vouchers/ invoices shall be digitized by respective institutions receiving grant and uploaded scanned copies of such bills/vouchers/invoices etc. on the portal for availability and view at any point of time.

c. The Utilization Certificate (UC) supported by Audited Statement of Expenditure to the effect that the grant has been utilized for the purpose for which it has been sanctioned shall be furnished to the AICTE immediately after completion of the Project. It should contain the head-wise break up of expenditure made from the grant-in-aid provided by the Council. Audited Statement of Expenditure indicating expenditure incurred in the total duration of the Project in the prescribed format and GFR-19 shall be submitted to the Council.

Page 3 of 7 1pm mean 

Department of Grun ungustering S J B Institute of Technology Uttarahalli Road, Kengeri Bengaluru-560 060

## File No. STDC/MIC/GRANT/215/2021-22/ 8

#### Dated: 29.03.2022

### III. Instructions for Implementation of project funds

- Approximately 50-60% of the total fund granted to an innovation team can be used for technology development/process development/innovation refinement and market research. This budget category may include expenses incurred towards above activities, logistics and procurement of raw materials, expenses to carry out market research, mentorship and fees related to incubation services availed through incubation unit (if chargeable).
- 2. Up to 20% may be utilized towards cost of startup registration as per DPIIT norm and consultation, IP filing, legal and fulfillment of other regulatory compliances towards operationalization the startup activities and launch of product/services.
- 3. Up to 10% may be utilized towards participation fee and travel to represent or participate in any national level competition / exhibition/ training / workshop related Innovation/Startup/IPR.
- 4. Up to 10% may be used for miscellaneous activities related to above categories.
- 5. Advance to student team lead can be given for the expense and settlement for which original receipt of expenses duly signed by student team lead will be submitted to the Institute on monthly basis.
- 6. A copy of summary of expenses should be provided to the students by Institute on monthly basis.
- 7. Guidelines regarding procurement of equipment, material & items for the Innovation Project Work and procedure for taking reimbursement of expenses are incorporated as Annexure –I of this Sanction Letter.
- IV. Refund of grant (by way of a demand draft in favor of Member Secretary, AICTE, New Delhi)
  - a. In any case, if the institute is required to refund the grant or interest accrued thereon or balance amount, the amount will be refunded to AICTE. Consent from the concerned team lead with duly signed copy need to be attached.
  - b. If project is not started within three (03) months after the issuance of this Sanction Letter, the released amount, along with interest accrued thereon, has to be necessarily returned to AICTE.
  - c. It may be ensured that the project is completed within the stipulated time. If the project is not completed in time, no further extension will be granted in any case and institute has to refund the entire amount to AICTE.
  - d. As AICTE needs adequate time for depositing the Demand Draft in the bank, the same be immediately dispatched to avoid any lapse of the validity period.

#### V. Submission of documents by college / institution / Incubation Unit after completion of project

The following mandatory relevant documents are required to be submitted by the college/institution within one month of the completion of the Project: -

- a. Feedback form in the prescribed proforma (finalized / given by MIC).
- Original Statement of actual expenditure in the prescribed proforma duly signed by the Head of the institution and countersigned by Registrar/Finance Officer/Govt. Auditor

Note: The institution is not required to submit bills/ vouchers/ invoices etc. for the expenditure incurred out of recurring grants. However, such copies of bills/ vouchers/ invoices shall be digitized by respective institutions receiving grant and uploaded scanned copies of such bills/vouchers/invoices etc. on the portal for availability and view at any point of time.

c. The Utilization Certificate (UC) supported by Audited Statement of Expenditure to the effect that the grant has been utilized for the purpose for which it has been sanctioned shall be furnished to the AICTE immediately after completion of the Project. It should contain the head-wise break up of expenditure made from the grant-in-aid provided by the Council. Audited Statement of Expenditure indicating expenditure incurred in the total duration of the Project in the prescribed format and GFR-19 shall be submitted to the Council.

Page 3 of 7

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Head of Department Department of Civil Engineering S J B Instit te of Technology Uttarahalli Road, Kengeri Bengaluru-560 060

### File No. STDC/MIC/GRANT/215/2021-22/ 8

#### Dated: 29.03.2022

- d. In case of self-financing/private institutions, Statement of actual Expenditure & Utilization Certificate are required to be audited & signed by a Charted Accountant (with membership no., full address & stamp). Photocopies of formats are enclosed as Annexures - II & III.
- Program Evaluation Committee (PEC) is required to be constituted at Institutional level. The constitution of the PEC shall be as under:
  - (i) Incubation unit head/HOD/Principal/Director/Registrar of the Institution (Chairperson)
  - (ii) Coordinator of the Project from incubation unit/institute (Member Secretary),
  - (iii) Two subject experts/entrepreneurs/startup founders.

The members of the said PEC shall not be below the rank of Associate Professor. The minutes of the meetings are to be submitted to the Council at end of the Project along with other mandatory documents.

f. Project completion report indicating the activities undertaken by the Innovation Team, achievements against milestones & targets submitted at the beginning of project.

### VI. General instructions

a. If program is not started in the period of three (03) months of the issuance of this Sanction Letter, the released amount, along with interest accrued thereon, has to be returned back to AICTE. Kindly mention the File No. STDC/MIC/GRANT/215/2020-21/8 dated : 29-03-2022 in your future correspondence.

The grantee Institution/Incubation Unit shall observe all financial norms and guidelines as prescribed by the AICTE/ Government of India from time to time. GOI GFR rules (@https://doe.gov.in/order-circular/general-financial-rules 2017-0) should be followed during utilization of grant.

b. This Sanction Letter may be treated as Offer Letter for all purposes.

Yours Sincerely: Director

- Encl: 1. Guidelines regarding procurement of equipment, material & items for the Innovation Project Work and procedure for taking reimbursement of expenses (Annexure -I)
  - 2. Formats of Statement of Expenditure & Utilisation Certificate (Annexures II & III)

Copy forwarded for information and necessary action to:

- S J B Institute of Technology, S J B Institute of Technology, No.67, BGS Health & Education City, Dr.Vishnuvardhan Rd, Kengeri, Bengaluru, Karnataka, Pin-560060. Tel: 080-28612445, 9880486622, Email : principal@sjbit.edu.in
- 2. Dr. LAKSHMI.C, clakshmi@sjbit.edu.in
- 3. MIC
- 4. Guard File

Page 4 of 7

Head of Department

S J B Institute of Technology Uttarahalli Road, Kengeri Bengaluru-560 060 ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ



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# Visvesvaraya Technological University

(State University of Government of Karnataka Established as per the VTU Act, 1994) "Jnana Sangama", Belagavi-590 018, Karnataka State, India

Prof. A. S. Deshpande B.E., M.Tech, Ph.D. <u>REGISTRAR</u> Ref: VTU/BGM/Aca/A-12/ VTU RGS/DIS -ME/2021-22/ S862 /12 To, The Principal, SJB Institute of Technology, Bengaluru

Sub: Grants for Research Proposal for the year 2021-22

Ref:. 1. VTU/Aca./2021-22/ PS/2019-20/9707, dated 18-03-2020.

2. Hon'ble Vice-Chancellor's approval dt: 11-02-2022

At the outset please accept our congratulations and greetings.

We are pleased to inform you that, the grant of Rs. 8.00 Lakhs (Rupees Eight Lakh only) is sanctioned to the research proposal entitled as "Mechanical and Tribological Investigation of Severe Plastic Deformation for Nitrided Hybrid Composites." submitted by Dr.H.R.Vitala (PI) and Dr.Banuprakash G (CoI) under VTU Research Grants Scheme -2021. The expenditure of the senetioned are

The expenditure of the sanctioned amount needs to be planned as under.

E	Expenditure Particulars	First Year (Rs. in Lakhs)	Second Year (Rs. in Lakhs)	Total (Rs. in Lakhs)
Non -	Fellowship for Research Scholar	1.20	1.20	2.40
Recurring	Equipments/Software/Instruments (Purchase of Desktops/Laptops are not permitted)	3.00	0.75	3.75
	Consumables (Glass wares/Chemicals)	0.75	0.60	1.35
Recurring	Others (Expenditure towards/ testing / consultancy / publications of research work in terms IPR Registrations (not for paper publications in journals) / TA -DA to present a paper in conferences or workshop or symposia in India.	0.25	0.25	0.50
	Total (Rs. in Lakhs)	5.20	2.80	8.00
This amount of acceptance letter & 12 mentioned	ion (75% of the Sanctioned Amount) will be released after receiving the and compliance of Point Number 10,11 in "Terms and Conditions"	3.90	2.10	6.00
Amount) Please Refer Po	ribution (25% of the Sanctioned int Number 10,11 & 12 in the "Terms " and comply accordingly	1.30	0.70	2.00



Head of the Department Department of Mechanical Engineer SJB Institute of Technolog Kengeri, Bengaluru-560 060



# WATER INSTITUTE DEPARTMENT OF CIVIL ENGINEERING, UVCE BANGALORE UNIVERSITY, BENGALURU

+91-9980210466, inayathulla@bub.ernet.in www.waterinstitute.in

Dr. INAYATHULLA M, BE (CIVIL) ME (WRE) Ph.D. Director, Water Institute, Professor, Department of Civil Engineering,

Ref. No. : DCE /WRE/WI/ WISE -SSP -1-1 /2021-22

Date: 10/12/2021

To The Principal, S.J.B Institute of Technology, BGS Health & Education City, #67, Uttarahalli Road, Kengeri, Bengaluru – 560060.

Dear Sir/ Madam,

## Subject : Sanction of Student Project - WISE-1st Series: Year 2021-22

I am happy to inform that your student project proposal entitled, "Utilization of Geospatial Techniques in Integrated Water Resource Management in and around Bidadi and Kumbalagoud Industrial Area, Bengaluru" has been approved by the Council for "Student Project – WISE 1<sup>st</sup> Series" and has been sanctioned with an budgetary break- up as detailed below:

Department	Civil Engineering	Civil Engineering						
Guide/ s	Dr. Manjunath H	Dr. Manjunath H N						
Student /s	Hemalatha R, He	emanth GR, Deepa	ak V					
Budget	1st Instalment	2 <sup>nd</sup> Instalment	3 <sup>rd</sup> Instalment					
Period	December 2021	May 2022	Depending on the progress of the					
Amount	Rs. 5000/-	Rs. 5000/-	project					

The following are the guidelines to carry out the project work:

- a) The project should be performed based on the objectives of the proposal sent by you.
- b) 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 Water Institute.
- c) Projects selected for Seminar/ Exhibition will be awarded.

The sanctioned amount will be sent through NEFT by Accounts Department. Please furnish the bank account details.

Thanking you and with best regards,

Yours sincerely

Dr. H. Inayathulla DIRECTOR, WATER INSTITUTE Professor, Department of Civil Engineering U.V.C.E, Bangalore University, Bengaluru-56

Head of Department Department of Civil Engineering 5 J B Instit te of Technology Uttarahalli Road, Kengeri Bengaluru-560 060

## To,

The Principal SJB Institute of Technology Bangalore – 60

## From,

Dr. Manjunath H N Associate Professor Dept. of Civil Engg. SJBIT, Bangalore – 60

Respected Sir,

## Through Proper Channel

## Sub: Transferring Student Project Financial support to Project Guide

With reference to above subject, I wish to bring your kind notice that, I have been sanctioned a Student Project – WISE - 1<sup>st</sup> Series for the year 2021-22 by Water institute, UVCE, Bangalore University in association with Biome and Wipro foundation on 10/12/2021. In connection to this the financial support of Rs. 10,000=00 towards the project was sanctioned and credited to SJB Institute account on 15/7/2022. The first project review on project progress has been completed. Thus I request you to transfer the sanctioned project amount to undermentioned account for further utilization towards project activities.

Thanking You

Date: 23/7/2022 Place: Bangalore

Account details: A/C Holder – Manjunath H N (Project Guide) A/C No. – 2890131000944 Bank & branch – Canara & BGS

Enclosure: Project sanction copy

SJB Institute of Technology # 67, BGS Health & Education City, Dr. Vishnuvardhan Road, Kengeri, Bengaluru - 560 060, CONTRAM

Yours sincerely

HOD Head of Department Department of Civil Engineering S J B Institute of Technology Uttarahalli Road, Kengeri Bengaluru-560 060.

Head of Department Department of Civil Engineering 5 J B Instit te of Technology Uttarahalli Road, Kengeri Bengalum-560 060

64			State Bank of India		
<b>O</b> SBI					
Other Bank Transfer					
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		Dat	e 15-07-2022
SB A/C No.			00002
A/c Holder:	SJBIT -BE		
Student Name	DR.INAYATHUL	LAM	
Father Name	0		
US No.	0 Branch	CIVIL	
Year/Sem	2021-22		
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Dr

Head of Department Department of Civil Engineering S J B Instit te of Technology Uttarahalli Road, Kengeri Bengalum-560 060



## Karnataka State Council for Science and Technology

(An autonomous organisation under the Dept. of Science & Technology, Govt. of Karnataka) Indian Institute of Science Campus, Bengaluru - 560 012 Telephone: 080-23341652, 23348848, 23348849, 23348840

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

Mr. H Hemanth Kumar Executive secretary

No.7.1.01/SPP/100

17<sup>th</sup> May 2022

The Principal, S.J.B. Institute of Technology, BGS Health & Education City, #67, Uttarahalli Road, Kengeri, Bengaluru – 560 060.

Dear Sir/Madam,

## Sub: Project approval under the 45<sup>th</sup> series Student Project Programme (SPP)

Greetings from Karnataka State Council for Science and Technology!

I am pleased to inform you that the evaluation committee of SPP has selected the projects (list attached) submitted by your institution for sponsorship under the 45<sup>th</sup> series Student Project Program. We expect some of these sponsored projects to result in the development of prototypes, products, or services.

The sanctioned amount will be transferred by NEFT to the bank account provided by your institution and the transaction details will be shared with your office shortly. The sanction orders for each of these projects will also be sent by email to the designated SPP coordinator (as mentioned in the project proposals) of your institution.

Further, the program schedule for the next phase of evaluation scheduled for June 2022 will be shared with the project guides, students, and the SSP coordinator.

Thanking you and with best regards,

Yours Sincerely,

(H. Hemanth Kumar)

Encl.: List of Projects selected from your institute.

Concerned degot Heads Concerned degot Heads All HODS All HODS

## KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science Campus, Bengaluru – 560 012 Website: www.kscst.org.in || Email: spp@kscst.org.in || Tel: 080-2334 1652,2334 8848/49/40

## 45<sup>th</sup> series of Student Project Programme (SPP): 2021-22

## List of Student Project Proposals Approved for Sponsorship

## 131. S.J.B. INSTITUTE OF TECHNOLOGY, BENGALURU

SI. No.	PROJECT REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)	SANCTIONED AMOUNT (IN RS.)
934.	45S_BE_3847	MICROSTRUCTURE ANALYSIS OF BLACK COTTON SOIL USING DEMOLITION WASTE	B.E.	CIVIL ENGINEERING	Ms. SHRILATHA B	Ms. BHAGYALAKSHMI P R Mr. KIRANKUMAR K H Mr. DILEEPA H P Ms. SAHANA K	8,000.00
935.	45S_BE_2644	INTELLIGENT DEVICE CONTROL USING BRAIN MACHINE INTERFACE	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. MAHANTESH.K	Mr. NITIN.T Mr. PRANESH B Mr. SHREE CHARAN Mr. TEJASH D P	7,000.00
936.	45S_BE_2717	SPIDER ROBOT FOR SCOUTING AND DEFENSE PURPOSE	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mrs. UMA S	Mr. RAKSHITH R Mr. NAVEEN M Mr. NISHANTH S Mr. PREM KUMAR R	8,000.00
937.	45S_BE_2816	DEVLOP AN EFFICIENT INTEGRATED BATTERY MANAGEMENT SYSTEM	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mr. DARSHAN BD	Mr. VIGHNESH U BHAGATH Mr. YASHWANTH S Mr. ROVAN MELON PEREIRA Mr. PAVAN KUMAR DESAI	7,000.00
938.	45S_BE_2943	NON INVASIVE BLOOD GLUCOSE MONITORING SYSTEM	B.E.	INFORMATION SCIENCE AND ENGINEERING	Mr. VISHRUTH B GOWDA Dr. MOHAN H S	MS. VINUTHA P MS. SOWMYA RANI WODEYAR B V MS. SUSHMA S Mr. ADIKARANI B N	6,000.00
939.	45S_MBA_044	SUPPLY CHAIN MANAGEMENT – BIO FUEL COMPANIES	M.B.A	MARKETING AND FINANCE	Dr. MAMATHA J Prof. BRIJESH SINGH	Ms. SINDU P Ms. PRIYANKA R Ms. LAVANYA R B Mr. SUBRAMANYA M	6,000.00
940.	45S_BE_3415	DESIGN, ANALYSIS, FABRICATION OF SEMI AUTOMATED MULTI SEED SOWING AND FERTILIZER FEEDER	B.E.	MECHANICAL ENGINEERING	MS. CHAITHRA B K	Mr. Shivakumar Barki Mr. Nagesh K Mr. Jai Siddharth.g Mr. Vignesh.n	8,000.00

Note:

• The sanctioned amount will be credited to the college bank account by NEFT.

• The evaluation of the above projects will be conducted via online mode during May / June 2022.

Participation in the online evaluation process is mandatory, failing which the project will be considered incomplete and will be withdrawn from the list and sanctioned amount shall be returned to KSCST.

After completion of the projects, a softcopy of the report prepared as per the format prescribed by RESPECTIVE UNIVERSITIES shall be uploaded (PDF format in a single file only) in the GOOGLE FORMS provided on the website.

• Any corrections with respect to the names of the guide and students shall be requested at spp@kscst.org.in

# Academic Year 2020-21

212

# SJBIT



Sl.No.	Name of the research project/ endowment	Name of the Principal Investigator/Co- investigator	Department of Principal Investigator	Year of Award	Amount Sanctioned	Duration of the project	Name of the Funding Agency	Type (Government/non- Government)
1	Karana Kaustubha of Krsna Daivajna - English Tramslation & Mathematical Analysis	Dr Padmaja Venugopal	MAT	2021	3.36	12 Month	Indian National Science Academy New Delhi.	Govt
2	Detection of COVID-19 Through Chest CT Scan	Ms. Savitri Kulkarni	CSE	2021	0.05	6 Months	KSCST	Govt
3	Identification of Arecanuts and its classification using machine learning techniques	Mr. Arun Kumar D R	CSE	2021	0.04	6 Months	KSCST	Govt
4	Face Mask detection using Deep Learning	Dr. Murali G	ISE	2021	0.04	6 Months	KSCST	Govt





5	Aushadhi – A Medical Chatbot to detect the patient disease based on symptoms	Dr. Mohan H S Mr. Rajesh L	ISE	2021	0.05	6 Months	KSCST	Govt
6	Design and Development of BCI Model to assist Aged or Physically Challenged People	Dr. Mahantesh K	ECE	2021	0.07	6 Months	KSCST	Govt
7	Nexus (SJBIT Alumni Application)	Dr. Chandrappa D N	ECE	2021	0.045	6 Months	KSCST	Govt
8	Tropic status of uttarahalli Lake	H Narendra Kumar	CIVIL	2021	0.05	6 Months	KSCST	Govt
9	Design, Analysis and Fabrication of Mechanical Powered Corn Deseeding Machine	Chaithra B K	MECH	2021	0.07	6 months	KSCST	Govt
10	Evaluation of strategies followed by the Bio- Fuel companies with reference to supply chain management.	Dr. Mamatha J & Brijesh Singh	MBA	2021	0.03	6 Month	KSCST	Govt





Madhvendra Narayan AED-II, (History of Science)

15

5 1101 2000

No. HS/RC/ **2**21 Dated: 27<sup>rd</sup> Oct, 2020

# Ref: "Karaņa Kaustubha of Kṛṣṇa Daivajna – English Translation and Mathematical Analysis."

Dear Dr. Padmaja Venugopal,

The following grant has been sanctioned by the academy for the year 2020-21:

# Recommended with the facilities of one Research Assistant @ Rs 14000/- p.m. and Contingency & Travel of Rs. 60000/- p.a. and Institutional Overhead as applicable.

The grants in two half yearly installment will be released to the host institution on receipt of the claim bill in the enclosed proforma in triplicate.

- 1. This sanction is meant for full time research and a Certificate to this effect is required to be furnished.
- 2. The host institution shall send an audited statement of account at the end of each financial year along with the utilization certificate. The unspent grants at the end of the financial year would be adjusted against the grant to be released for the next year.
- 3. A detailed progress report of the research study (in five-six pages) shall be of utmost importance for considering the renewal of the project by the Commission.

Please acknowledge the receipt of the letter and communicate to undertake the above study and bill in triplicate for the first instalment of the grants through the Head of the host Institution indicating the date from which you propose to commence the project work. With kind regards,

Yours sincerely,

(Madhvendra Narayan) AED-II, History of Science

Dr. Padmaja Venugopal Professor & Head, Department of Mathematics SJB Institute of Technology, Uttarahalli Main Road, Kengeri, Bangalore - 560060

CC: 1. The Principal, SJB Institute of Technology, Kengeri, Bangalore- 560060

2. Deputy Executive Director-II (Finance & Admin.)

3. Office Copy

Dr. Padmaja Venugopal, Ph.D. Professor and Head Department of Mathematics S.J.B. Institute of Technology # 67, BGS Health & Education City, Uttarahalli Road, Kengeri, Bangalore-60.



SIB Institute of Technology

# 67, BGS Health & Education City, Dr. Vishnuvardhan Road, Kengeri, Bengaluru - 560 060.



स्पीड पोस्ट SPEED POST

Madhvendra Narayan AED-II, (History of Science)

> No. HS/RC/ 324 Dated 26/08/2021

Ref : "Karaņa Kaustubha of Kŗṣṇa Daivajña – English Translation and Mathematical Analysis"

Dear Dr. Padmaja Venugopal,

I am pleased to inform you that the above mentioned project has been renewed by the Indian National Commission for History of Science at the online meeting of 12<sup>th</sup> August, 2021 for the year 2021-2022.

The recommendations are as follows:

Project renewed and extended only up to 31.03.2022 with the existing facilities of One Research Assistant @ Rs. 14000/- p.m. and Contingency & Travel of Rs. 60,000/- p.a.

PI is requested to incorporate the specific suggestions made by Professors MS Sriram and RN Iyengar.

We shall be happy to receive the bill for the period **April**, **2021** to **March**, **2022** along with a statement of expenditure/Audit Report (Utilization Certificate) for the period ending March 2021 in the enclosed proforma.

In case of change of host institute, it should be intimated to INSA in advance and prior permission should be taken in this regard.

With kind regards,

Yours sincerely,

novayan (Madhvendra/Narayan) AED-II, History of Science

Dr. Padmaja Venugopal SJB Institute of Technology, BGS Health & Education City Campus, Uttarahalli Main Road, Kangeri Bengaluru-560060

CC:

- 1. The Principal, SJB Institute of Technology, Bengaluru-560060
- 2. Deputy Executive Director-II (Finance & Admin.)
- 3. Office copy

Dr. Padmaja Venugopal, Ph.D. Professor and Head Department of Mathematics S.J.B Institute of Technology # 67, BGS Health & Education City. Uttarahalti Road, Kengeri, Bangalore-60.



SJB Institute of Technology # 67, BGS Health & Education City, Dr. Vishnuvardhan Road, Kengeri, Bengaluru - 560 060.

Date: 14.06.2021

From,

Dr .Padmaja Venugopal Prof. & Head Department of Mathematics SJBIT, Bangalore – 560060

То

The Principal SJB Institute of Technology Bangalore – 560060

Sir,

Sub: Regarding the release of Rs.19,000/- and Rs.82,966/- towards contingency and research assistantship.

With respect to the above subject, I request you to release Rs. 82,966 (vide cheque No.791691, SBI, New Delhi – 110 002 dated 12/03/2021) and Rs. 19,000/- (vide cheque No.791718, SBI, New Delhi – 110 002 dated 31/03/2021) issued by INSA (Indian National Science Academy) to pay towards research fellowship and contingency and oblige.

Thanking You,

SSBIT ACCOUNTS

Yours Truly

Dr. Padmaja Venugopal

SJ**B In** # 67, BC

SJB Institute of Technology # 67, BGS Health & Education City, Dr. Vishnuvardhan Road, Kengeri, Bengaluru - 560 060.



Dr. Padmaja Venugopal, Ph.D.

Professor and Head Department of Mathematics S.J.B. Institute of Technology # 67, BGS Health & Education City, Uttarahalli Road, Kengeri, Bangalore-60.

## Statement of Expenditure (To be submitted in Duplicate)

Title of the Project :

karana Kaustubha of Krsna Daivajna

English Translation & Mathematical Analysis

Name of the Investigator and the address of the Institution : Dr. Padmaja Venugopal STB Institute of Technology, BGS Health & Edn City Campus, Ultarahalli Main Poad, Kengeri Bangalore - 60

			Jun	
Honorarium/Fellowship	Grant	Grant	Spent	Unspent
	Sanction	received		
1. Honorarium/Fellowship	61,133	61,133	61,133	-
2. Contingency*	21,833	<i>२</i> १, <b>६</b> ३ 3	a a,500	
Total :	82,966	82,966	83,633	

Signature of Research Fellow Signature of Investigator Prof. Dr. Ajai Chandran C.K Ph.D. MURP E.Arch, FIA, AUP, FIV, AIID, MISTE Principal Signature death & Education City, Ruthonities from Road, Kengeri, The University RU - 560 060. Institute

## **UTILIZATION CERTIFICATE :**

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City, Inre-60. Seal

This is to certify that the grant of Rs. 83.63.7out of total grant of Rs. 82.9.66.7... received for the project from the Academy for the year 2020.23 has been fully utilized for the purpose for which it was sanctioned. The audited statement of expenditure will be furnished in due course.

Prof. Dr. Ajai Chandran C.K Ph.D. MUR, B.Arch, Ella AllP, FIV, AllD, MISTE OPCINGPall Signature of Technology Signature of the authority & Education City, from the University Unsulful Road, Kangeri, BENGALURU - 560 060.

SJB Institute of Technology # 67, BGS Health & Education City, Dr. Vishnuvardhan Road, Kengeri, Bengaluru - 560 060.

Dr. Padmaia Venugopal, Ph.D. ากฮ่

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Ulla





# 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

H. Hemanth Kumar Executive Secretary

No: 7.1.03/SPP/154

The Principal S.J.B. Institute of Technology #67, Uttarahalli Road, Kengeri Bengaluru – 560 060

Dear Sir/Madam,

Sub: 44th series Student Project Programme (SPP): Status of the sanctioned projects

#### Greetings from KSCST!

I am pleased to inform you that the projects submitted by your institution under the 44<sup>th</sup> series of SPP-KSCST have been shortlisted for funding and listed on our website. We do hope that faculty and students have taken note of it. We have also posted the sanction order and sanctioned amount for the projects to your institution.

As per the earlier announcements and due to the prevailing restrictions in the country to contain the COVID-19 pandemic, we are not conducting the midterm evaluations at the nodal centers as done earlier. We plan to organise final evaluation of the projects online and to conduct the online evaluations, we would like to have the status of the sanctioned projects. The following are the instructions to be followed to get the projects evaluated online.

- The project guide and SPP Coordinator shall update the project status to KSCST on or before 26th July 2021 by email to <u>spp@kscst.iisc.ernet.in</u>.
- The evaluation dates will be announced after 26th July 2021.
- The head of the institute shall make sure that all the sanctioned projects get evaluated online.
- Only students (at least one or two) shall present/demonstrate their project.
- The best projects after online evaluation will be awarded with "Best project of the year Award" under 44<sup>th</sup> Series of SPP.
- The Project Completion Report (Final report) has to be sent in SOFTCOPY ONLY (SINGLE PDF FILE) by cmall to spp@kscst.iisc.ernet.in. The pdf file shall include the completion certificate of the project duly signed by the Project Guide and Head of the institution.

The evaluation dates, time-slots and other information regarding the online evaluation will be shared by email / website announcement, once we receive the information from your end.

Thanking you and with best regards,

Yours sincerely,

f. Un (H. Hemanth Kumar)

Encl: List of sanctioned projects and NEFT details of released amount.

14th July 2021

( <sup>th</sup>

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## 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 || 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

CONGRAJULATIONS

TEAM SSBIT

## 135. S.J.B. INSTITUTE OF TECHNOLOGY, BENGALURU

SANCTIONED NAME OF THE STUDENT(S) NAME OF THE PROJECT TITLE BRANCH COURSE PROJECT SI. GUIDE(S) AMOUNT REFERENCE No. (IN Rs.) No. 5000.00 Mr. H NARENDRA Ms. HARSHITHA M S CIVIL ENGINEERING B.E. 44S BE 0484 TROPHIC STATUS OF UTTARAHALLI LAKE 870. KUMAR Ms. SAHANA P Mr. SWAMY B R Mr. AVINASH PAWAR A S 7000.00 B.E. Mrs. CHAITHRA B K Mr. KEMPARAJ N DESIGN, ANALYSIS AND FABRICATION OF MECHANICAL POWERED CORN MECHANICAL 44S BE 0489 871. Mr. DANUSH ENGINEERING DESEEDING MACHINE Mr. GAURAV KUMAR P 4500.00 B.E. Dr. CHANDRAPPA D.N Mr. KARTHIK BHARADWAJ H.S ELECTRONICS AND 44S BE 0493 NEXUS (SJBIT ALUMNI APPLICATION) 872. Mr. SUDARSHAN H.R COMMUNICATION Mr. RAGHAV KAMKAR ENGINEERING Ms. TULASI V. 7000.00 Mr. CHANNABASAVA VASTRAD ELECTRONICS AND B.E. Dr. MAHANTESH.K DESIGN AND DEVELOPMENT OF BCI MODEL TO ASSIST AGED OR 44S BE 0496 873. COMMUNICATION Mr. C SANDEEP PHYSICALLY CHALLENGED PEOPLE Mr. MANIKYA RATHNA SHETTY ENGINEERING Mr. PARIKSHITH C SHEKAR Ms. AKANKSHA 5000.00 Dr. MOHAN H S AUSHADHI - A MEDICAL CHATBOT TO DETECT THE PATIENT DISEASE INFORMATION B.E. 44S BE 0500 874. Mr. RAJESH L Mr. ABHINAV ARYAN SCIENCE AND BASED ON SYMPTOMS Mr. DIVYANSHU SHEKHAR ENGINEERING Mr. HARMEET SINGH GANDHI 4000.00 IDENTIFICATION OF ARECANUTS AND ITS CLASSIFICATION USING MACHINE COMPUTER B.E. Mr. ARUN KUMAR D R Mr. BHARATH H P 875. 44S BE 0510 Mr. HANUSH GOWRAV GOWDA K SCIENCE AND I FARNING TECHNIQUES S ENGINEERING Mr. ANISH G KAUSHIK Ms. BRUNDHA M 5000.00 B.E. Ms. SAVITRI Ms. NIKITA SINGH COMPUTER DETECTION OF COVID-19 THROUGH CHEST CT SCAN 876. 44S BE 0512 KULKARNI Ms. NEHA MURMU SCIENCE AND Ms. NIKITA WASON ENGINEERING 4000.00 B.E. Dr. MURALI G Mr. SAMMED JAIN D P FACE MASK DETECTION USING DEEP LEARNING INFORMATION 877. 44S BE 0759 Ms. RASHMI D HAPPAL SCIENCE AND Ms. RANJITHA ENGINEERING Ms. YESHASWINI V

KSCST : 44th Series of Student Project Programme (SPP) : Sponsored Projects

Page 181 of 240

878. 44S_MBA_(	4 EVALUATION OF STRATEGIES FOLLOWED BY THE BIO – FUEL COMPANIES WITH REFERENCE TO SUPPLY CHAIN MANAGEMENT	MASTER OF BUSINESS ADMINISTRATION	M.B.A.	Prof. BRIJESH SINGH Dr. MAMATHA J	MS. NAVYA MS. KRUTHIKA P Mr. VIJAYVIKAS B Mr. RUDRESH J S	3000.00
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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.

1/1/2021

# Academic Year 2019-20

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# SJBIT



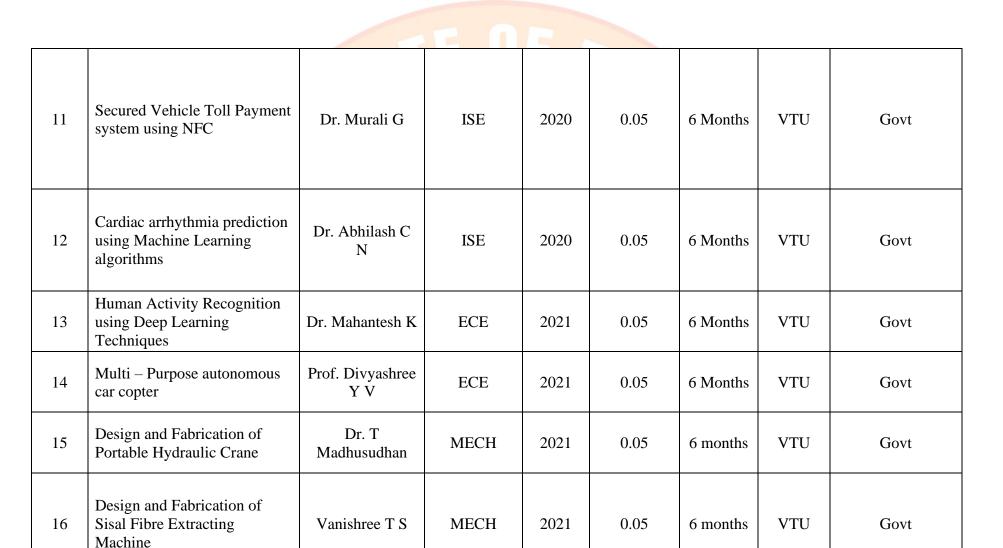
Sl.No.	Name of the research project/ endowment	Name of the Principal Investigator/Co- investigator	Department of Principal Investigator	Year of Award	Amount Sanctioned	Duration of the project	Name of the Funding Agency	Type (Government/non- Government)
1	NSTEDB activities/ Programs	Dr. K R Nataraj/ Dr. Chandrappa DN	ECE	2019	10.7	1 year	DST- NIMAT	Govt
2	Plant Diseases Detection and Treatment Recommendation	Dr. Ajay Prakash B V	CSE	2020	0.05	6 Months	KSCST	Govt
3	Intercept Detection and Speech Vigilance System for Visually Impaired Personnel	Dr. K V Mahendra Prashanth	ECE	2019	0.055	6 Months	KSCST	Govt
4	Removal of Toxic Metal from the Industrial Waste Water by Using Activated agricultural Waste.	Dr. Prasad CSMV	CIVIL	2019	0.04	6 Months	KSCST	Govt





5	Design and Fabrication of Pulp and Paper Making Machine using Corn Husk	Mr. Suchith Kumar A N	MECH	2020	0.07	6 months	KSCST	Govt
6	Design and Fabrication of Dry coconut Slicer	Chaithra B K	MECH	2020	0.07	6 months	KSCST	Govt
7	Manual Operated Multi seed sowing with Intercropping and Fertilizer Spreader	Dr. Srinivas H K	MECH	2020	0.06	6 months	KSCST	Govt
8	E-mobility solution for physically challenged for both voice based and gesture base input	J P Sridhar	EEE	2020	0.06	6 months	KSCST	Govt
9	Skin Cancer Detection using Machine Learning Techniques	Dr. Srikantaiah K C	CSE	2020	0.05	6 Months	VTU	Govt
10	Sign Language Translator	Dr. Krishna A N	CSE	2020	0.05	6 Months	VTU	Govt





SJBIT



11	Self Montoring smart concrete using Embedded sensors	Puneeth H C	CIVIL	2020	0.05	6 Months	VTU	Govt
12	RS and GIS based identification of groundwater potential zone and artificial recharging technique for Dodda sulekere sub watershed	Dr. Manjunath H N	CIVIL	2020	0.05	6 Months	VTU	Govt
13	Controlling of stepper motor Linear Actuator slide- mechanisum by Aurdino board	Dr. Mamatha M Gowda	EEE	2020	0.05	6 Months	VTU	Govt
14	GSM based smart energy meter with automatic power factor correction	Dr.M J Chandrashekar	EEE	2020	0.05	6 Months	VTU	Govt



Near Village Bhat, Via Ahmedabad Airport & Indira Bridge, P.O. Bhat - 382 428, Dist. : Gandhinagar, Gujarat. India. Telefax : +91-79-23969164 Tel. : +91-79-23969153, 23969158, 23969159, 23969161

E-mail : info@ediindia.org

Website : www.ediindia.org

S. B. Sareen Sr. Faculty & Project Director: DST-NIMAT EDII/DST-NIMAT/19-20/218 Date: 12/08/2019

Bangalore S

#### SPEED POST

Dr. Puttaraju Principal S. J. B. Institute of Technology # 67, BGS Health & Education City, Dr. Vishnuvardhan,Road, Kengeri Bengaluru - 560 060 Karnataka

Kind Attention: Dr. Nataraj K. R., Professor & HoD (Department of ECE) Dr. Mallikarjunaswamy S., Associate Professor (Department of ECE)

Dear Sir,

#### Sub: DST-NIMAT Project 2019-20: Sanction Order

Greetings from Entrepreneurship Development Institute of India, Ahmedabad!

This is with reference to your proposal submitted for conducting activities / programme(s) under the aegis of National Science & Technology Entrepreneurship Development Board (NSTEDB), Department of Science and Technology, Government of India, New Delhi.

We are happy to inform you that the following activities / programmes have been sanctioned:

Sr. No.	Activity / Programme	No.	Amount in Rs.	Locations
1	Entrepreneurship Awareness Camp (EAC)	6	120000	As mentioned in proposal
2	Entrepreneurship Development Programme (EDP)	1	200000	1) Bangalore
3	Women Entrepreneurship Development Programme (WEDP)	1	200000	1) Bangalore
4	Technology based Entrepreneurship Development Programme (TEDP)	1	300000	1) Bangalore
5	Faculty Development Programme (FDP)	1	250000	1) Bangalore
	Total	10	1070000	h

You are requested to please go through the enclosed Guidelines / Terms & Conditions as it is mandatorpto follow the same.

au

Head Dept. of Electronics & Communication Engr SJB Institute of Verhnology Bengaluru-560060



Please note that the first installment is to be released on receipt of the following documents:

1. Duly Signed Agreement

2. Duly Signed "Terms & Conditions" (each Page)

3. Action Plan [Annexure-I]

4. Bank Details [Annexure-IA]

The funds will be transferred through RTGS/NEFT. Please make sure that the above said documents must reach us as early as possible, but not later than ONE MONTH of receiving this sanction letter. Non receipt of the same may be considered as your unwillingness to take up the programme(s).

As per point no. 11 of the enclosed Terms & Conditions, it is expected to generate results in terms of unit establishment from programmes like; EDP, WEDP and TEDP. Hope, you will design the required strategy to show case desired result.

For any additional information, please contact either me (Email ID: sareen@ediindia.org, 09925110040) or my colleague Mr. Prakash Solanki (Email ID: Mobile: psolanki@ediindia.org, Mobile: 09723816384).

We look forward to have a long term professional relationship.

Thanking you, with regards,

Dunking

(S. B. Sareen) Encl.: a. a



Annexure IV

(GFR 12-A, GFR 12-B and GFR 12-C)

### GFR 12 - A

[(See Rule 238 (1)]

### FORM OF UTILIZATION CERTIFICATE FOR AUTONOMOUS BODIES OF THE GRANTEE ORGANIZATION

UTILIZATION CERTIFICATE FOR THE YEAR 2019-20 in respect of recurring/non-recurring GRANTS-IN-AID/SALARIES/CREATION OF CAPITAL ASSETS

1. Name of the Scheme GENC, FDP, EDP, WEDP 2 TEDP

NIL

- 2. Whether recurring or non-recurring grants.
- 3. Grants position at the beginning of the Financial year
  - (i) Cash inHand/Bank
  - (ii) Unadjusted advances
  - (iii) Total
- 4. Details of grants received, expenditure incurred and closing balances: (Actuals)

Unspent Balances of Grants received years [figure as at SI. No. 3	Inter est Earn ed ther eon	Interest deposited back to the Governm ent		eceived durin year	ng the	Total Available funds (1+2- 3+4)	Expenditure incurred	Closing Balance s (5-6)
(iii)] 1	2	3		4		5	6	7
			Sanction No. (i)	Date (ii)	Amount (iii)			
	18,618	18,618	218	12/8/19	\$56,0	85600	10,78729	-2,1477

Component wise utilization of grants:

Grant-in-aid– General	Grant-in-aid– Salary	Grant-in-aid–creation of capital assets	Total
0, 70, 000			-10,70,000

Details of grants position at the end of the year

NIL

(i) Cash inHand/Bank

(ii) Unadjusted Advances

NIL (iii) Total NIL



### GFR 12 – B

[See Rule 256 (2)]

### FORM OF UTILIZATION CERTIFICATE

(1) Certified that out of the Loan of Rs. 10, 70, 000 SANCTIONED under EAGEDP, WEDP TET dated. 12/08/2019 infavourof ENVICED Later PERCE
during the year
Rs. 10, 70, 70, 70, 5 has been utilized for the purpose for which it was sanctioned, and that the balance of
Rs
Government (vide No, dated)/will be adjusted towards the loan payable during
the next financial year.

(2) Certified that I have satisfied myself that the conditions on which the loan was sanctioned have been duly fulfilled/are being fulfilled and that I have exercised the following checks to see that the money was actually spent for the purpose for which the loan was made.

Kinds of checks exercised

Training Expenses 1.

- 2. Travel & industrial risit
- 3. Miscelloueous 2 contineous
- 4. Administrative & Lodging Administrative

Signature.

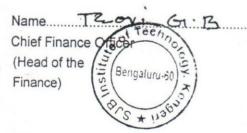
Designation SJB Institute of Technology Date BGS Health & Education.City No. 67, Uttarahalli Road, Kengeri Bangalore South - 560 060.

- (i) The main accounts and other subsidiary accounts and registers (including assets registers) are maintained as prescribed in the relevant Act/Rules/Standing instructions (mention the Act/Rules) and have been duly audited by designated auditors. The figures depicted above tally with the audited figures mentioned in financial statements/accounts.
- (ii) There exist internal controls for safeguarding public funds/assets, watching outcomes and achievements of physical targets against the financial inputs, ensuring quality in asset creation etc. & the periodic evaluation of internal controls is exercised to ensure their effectiveness.
- (iii) To the best of our knowledge and belief, no transactions have been entered that are in violation of relevant Act/Rules/standing instructions and scheme guidelines.
- (iv) The responsibilities among the key functionaries for execution of the scheme have been assigned in clear terms and are not general in nature.
- (v) The benefits were extended to the intended beneficiaries and only such areas/districts were covered where the scheme was intended to operate.
- (vi) The expenditure on various components of the scheme was in the proportions authorized as per the scheme guidelines and terms and conditions of the grants-in-aid.
- (viii) The utilization of the fund resulted in outcomes given at Annexure II duly enclosed (to be formulated by the Ministry/Department concerned as per their requirements/specifications.)
- (ix) Details of various schemes executed by the agency through grants-in-aid received from the same Ministry or from other Ministries is enclosed at Annexure –II (to be formulated by the Ministry/Department concerned as per their requirements/specifications).

Date:

Boregolone Place

63 Signature



(Strike out inapplicable terms)

Head

Dept. of Electronics & Communication Eng SJB Institute of Technology Bengaluru-560060



M. NU:218028 PRN:01120658

> Principal itute of Technology ith & Education City arahalli Road, Kengeri ore South - 560 060

	SI.	PROJECT							
	No.	REFERENCE NO.	PROJECT TITLE	BRANCH	DEGREE	PROJECT	NAME OF THE OWNER.		SANCTIONED
L					DEGREE	STREAM	NAME OF THE GUIDE(s)	NAME OF THE STUDENTS	AMOUNT

### 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 || Phone: 080-23600978

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

### LIST OF STUDENT PROJECT PROPOSALS APPROVED FOR SPONSORSHIP

#### 124) S.J.B. INSTITUTE OF TECHNOLOGY, BENGALURU

43S_BE_1908	INTERCEPT DETECTION AND SPEECH VIGILANCE SYSTEM FOR VISUALLY IMPAIRED PERSONNEL	ELECTRONICS AND COMMUNICATION ENGINEERING	B.E.	STREAM A	Dr. K V MAHENDRA PRASHANTH	Ms. INCHARA S Mr. MAYANK AMAN SINGH	5500.00
43S_BE_1912	PLANT DISEASES DETECTION AND TREATMENT RECOMMENDATION	COMPUTER	BE	STREAMA		Mr. ABHISHEK KUMAR	
		SCIENCE AND ENGINEERING	D.L.	STREAMA	Dr. AJAY PRAKASH B V	Mr. AMBARISH K Mr. DEEKSHITH S	5000.00
	VOICE BASED AND GESTURE BASED INPUT	ELECTRICAL AND ELECTRONICS ENGINEERING	B.E.	STREAM A	Mr. J.P.SRIDHAR	Mr. VIJAY KUMAR.V Ms. DIVYA H S Ms. MONICA C R	6000.00
	BY USING ACTIVATED AGRICULTURAL WASTE	CIVIL ENGINEERING	B.E.	STREAM B	Dr. PRASAD C S M V	Ms. POOJA VAISHNAVI C G Ms. YASHASWINI D K Ms. RASHMI S JALADI	4000.00
		MECHANICAL ENGINEERING	B.E.	STREAM A	Mrs. CHAITHRA B K	Ms. DEEKSHA GOWTHAM C V Mr. RAKSHITH B N	7000.00
	CORN HUSK	MECHANICAL	B.E.	STREAM A	Mr. SUCHIT KUMAR A N	Mr. SANDESH S	7000.00
43S_BE_1929	MANUAL OPERATED MULTI SEED SOWING WITH INTERCROPPING AND FERTILIZER SPREADER	MECHANICAL ENGINEERING	B.E.	STREAM A	Dr. SRINIVASA H.K	Mr. SRINIVAS C R Mr. PAVAN KUMAR C Mr. DEVARAJ K V Mr. HARIPRASAD K N Ms. VEDHA V	6000.00
	43S_BE_1912 43S_BE_1917 43S_BE_1921 43S_BE_1925 43S_BE_1928	43S_BE_1912       PLANT DISEASES DETECTION AND TREATMENT RECOMMENDATION         43S_BE_1917       E-MOBILITY SOLUTION FOR PHYSICALLY CHALLENGED FOR BOTH VOICE BASED AND GESTURE BASED INPUT         43S_BE_1921       REMOVAL OF TOXIC METALS FROM THE INDUSTRIAL WASTE WATER BY USING ACTIVATED AGRICULTURAL WASTE         43S_BE_1925       DESIGN AND FABRICATION OF DRY COCONUT SLICER         43S_BE_1928       DESIGN & FABRICATION OF PULP & PAPER MAKING MACHINE USING CORN HUSK	VISUALLY IMPAIRED PERSONNELELECTRONICS AND COMMUNICATION ENGINEERING43S_BE_1912PLANT DISEASES DETECTION AND TREATMENT RECOMMENDATION SCIENCE AND ENGINEERINGCOMPUTER SCIENCE AND ENGINEERING43S_BE_1917E-MOBILITY SOLUTION FOR PHYSICALLY CHALLENGED FOR BOTH VOICE BASED AND GESTURE BASED INPUTELECTRICAL AND ELECTRONICS ENGINEERING43S_BE_1921REMOVAL OF TOXIC METALS FROM THE INDUSTRIAL WASTE WATER BY USING ACTIVATED AGRICULTURAL WASTECIVIL ENGINEERING43S_BE_1925DESIGN AND FABRICATION OF DRY COCONUT SLICERMECHANICAL ENGINEERING43S_BE_1928DESIGN & FABRICATION OF PULP & PAPER MAKING MACHINE USING CORN HUSKMECHANICAL ENGINEERING43S_BE_1929MANUAL OPERATED MULTI SEED SOWING WITH INTERCROPPING MECHANICALMECHANICAL ENGINEERING	VISUALLY IMPAIRED PERSONNELVISUALLY IMPAIRED PERSONNELELECT NONCS AND COMMUNICATION ENGINEERINGB.E.43S_BE_1912PLANT DISEASES DETECTION AND TREATMENT RECOMMENDATION VOICE BASED AND GESTURE BASED INPUTCOMPUTER SCIENCE AND ENGINEERINGB.E.43S_BE_1917E-MOBILITY SOLUTION FOR PHYSICALLY CHALLENGED FOR BOTH VOICE BASED AND GESTURE BASED INPUTELECTRICAL AND ELECTRICAL STROM THE INDUSTRIAL WASTE WATER BY USING ACTIVATED AGRICULTURAL WASTEELECTRICAL AND ELECTRONICS ENGINEERINGB.E.43S_BE_1925DESIGN AND FABRICATION OF DRY COCONUT SLICERMECHANICAL ENGINEERINGB.E.43S_BE_1928DESIGN & FABRICATION OF PULP & PAPER MAKING MACHINE USING CORN HUSKMECHANICAL ENGINEERINGB.E.43S_BE_1929MANUAL OPERATED MULTI SEED SOWING WITH INTERCROPPINGMECHANICAL MECHANICAL ENGINEERINGB.E.	VISUALLY IMPAIRED PERSONNELCOMMUNICATION COMMUNICATION ENGINEERINGB.E.STREAM A43S_BE_1912PLANT DISEASES DETECTION AND TREATMENT RECOMMENDATION VOICE BASED AND GESTURE BASED INPUTCOMPUTER SCIENCE AND ENGINEERINGB.E.STREAM A43S_BE_1917E-MOBILITY SOLUTION FOR PHYSICALLY CHALLENGED FOR BOTH VOICE BASED AND GESTURE BASED INPUTELECTRICAL AND ELECTRONICS ENGINEERINGB.E.STREAM A43S_BE_1921REMOVAL OF TOXIC METALS FROM THE INDUSTRIAL WASTE BY USING ACTIVATED AGRICULTURAL WASTECIVIL ENGINEERINGB.E.STREAM B43S_BE_1925DESIGN AND FABRICATION OF DRY COCONUT SLICERMECHANICAL ENGINEERINGB.E.STREAM A43S_BE_1928DESIGN & FABRICATION OF PULP & PAPER MAKING MACHINE USING CORN HUSKMECHANICAL ENGINEERINGB.E.STREAM A43S_BE_1929MANUAL OPERATED MULTI SEED SOWING WITH INTERCROPPING MECHANICALB.E.STREAM A	VISUALLY IMPAIRED PERSONNEL       VISUALLY IMPAIRED PERSONNEL       Dr. K V IMAHENDRA PRASHANTH         43S_BE_1912       PLANT DISEASES DETECTION AND TREATMENT RECOMMENDATION PROBILITY SOLUTION FOR PHYSICALLY CHALLENGED FOR BOTH VOICE BASED AND GESTURE BASED INPUT       COMPUTER SCIENCE AND ENGINEERING       B.E.       STREAM A       Dr. AJAY PRAKASH B V         43S_BE_1917       E-MOBILITY SOLUTION FOR PHYSICALLY CHALLENGED FOR BOTH VOICE BASED AND GESTURE BASED INPUT       ELECTRICAL AND ELECTRICNICS ENGINEERING       B.E.       STREAM A       Mr. J.P.SRIDHAR         43S_BE_1921       REMOVAL OF TOXIC METALS FROM THE INDUSTRIAL WASTE WATER BY USING ACTIVATED AGRICULTURAL WASTE       CIVIL ENGINEERING       B.E.       STREAM B       Dr. PRASAD C S M V         43S_BE_1925       DESIGN AND FABRICATION OF DRY COCONUT SLICER       MECHANICAL ENGINEERING       B.E.       STREAM A       Mrs. CHAITHRA B K         43S_BE_1928       DESIGN & FABRICATION OF PULP & PAPER MAKING MACHINE USING CORN HUSK       MECHANICAL ENGINEERING       B.E.       STREAM A       Mr. SUCHIT KUMAR A N         43S_BE_1929       MANUAL OPERATED MULTI SEED SOWING WITH INTERCROPPING       MECHANICAL ENGINEERING       B.E.       STREAM A       Dr. STRINIVASA H K	VISUALLY IMPAIRED PERSONNEL       VISUALLY IMPAIRED PERSONNEL       WISUALLY IMPAIRED PERSONNEL       MS. INCHARA S         435_BE_1912       PLANT DISEASES DETECTION AND TREATMENT RECOMMENDATION       COMPUTER SCIENCE AND ENGINEERING       B.E.       STREAM A       Dr. A JAY PRAKASH B V       Mr. ARHSHSK KUMAR         435_BE_1912       PLANT DISEASES DETECTION AND TREATMENT RECOMMENDATION       COMPUTER SCIENCE AND ENGINEERING       B.E.       STREAM A       Dr. A JAY PRAKASH B V       Mr. AKSHAR V Mr. AKSHAR V V Mr. DEEKSHITH S         435_BE_1917       E-MOBILITY SOLUTION FOR PHYSICALLY CHALLENGED FOR BOTH VOICE BASED AND GESTURE BASED INPUT       ELECTRICAL AND ELECTRICAND ELECTRICAL AND ELECTRICAND ENGINEERING       B.E.       STREAM A       Mr. J.P.SRIDHAR       Mr. VIJAY KUMAR.V Ms. DIVYA H S Ms. BOINCA C R Ms. SINDHU A         435_BE_1921       REMOVAL OF TOXIC METALS FROM THE INDUSTRIAL WASTE WATER BY USING ACTIVATED AGRICULTURAL WASTE       CIVIL ENGINEERING       B.E.       STREAM B       Dr. PRASAD C S M V       Ms. SINDHU A Ms. SASHMI S JALADI Mr. CHINMAY US V         435_BE_1925       DESIGN AND FABRICATION OF DRY COCONUT SLICER       MECHANICAL ENGINEERING       B.E.       STREAM A       Mr. SCHAITHRA B K       Mr. SRINIVAS S C R         435_BE_1929       MANUAL OPERATED MULTI SEED SOWING WITH INTERCROPPING AND FERTILIZER SPREADER       MECHANICAL ENGINEERING       B.E.       STREAM A <t< td=""></t<>

The sanctioned amount will be sent separately by KSCST to the College in the name of the principal by NEFT transfer. The details of transaction no. and date will be intimated.

Total - 40,500

(in Rs.)

The evaluation of above projects will be conducted at the nodal centres in the month of May / June 2020. Participation in the evaluation process at the nodal centres is mandatory, failing to which the sanctioned project will be withdrawn from the list and sanctioned amount shall be returned to KSCST.

□ Further projects will be shortlisted for state level seminar & exhibition which will be conducted during July / August 2020.

After completion of the projects, the hard copy and soft copy (PDF format only) of the report needs to be sent to KSCST without fail. Dr. Chandray

Any corrections with respect to the names of the guide and students should be requested at spp@kscst.iisc.ernet.in.

KSCST: 43rd Series of Student Project Programme : Sanctioned Projects

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1/1 2/3/20

### Visvesvaraya Technological University "Jnana Sangama", Belgaum - 590 018

Prof A S Deshpande B.E. ME., Ph.D. REGISTRAR Ref No. VTU/Aca/A13/2020-21/ 505H13

Phone: (0831) 2405468 : (0831) 2405467 Fax IAN 2021 Date :

To, The Principal S J B Institute of Technology, Uttarahalli Road, Near Abhiman Studio, Kengeri, BENGALURU – 560060

Sir.

Sub : Sanction of Financial Assistance to the selected projects of UG students of your Institution...reg. Ref : VTU/BGM/Aca-OS/Gen-Cirs/2019-20/10300 dated : 11-03-2020.

With reference to the above subject, please find herewith a DD Bearing No. 642792 Dated: 21-12-2020 of Rs. 60,000/-(Rupees Sixty Thousand Only) towards the sanction of financial assistance to the selected projects of UG students of BE and B.Tech. In this regard you are here by requested to distribute the amount to the concerned students and get an acknowledgement for the same.

Original copy of the acknowledgement should be sent to the undersigned on or before 12th Jan 2021

Encl : as above



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REGISTRAR

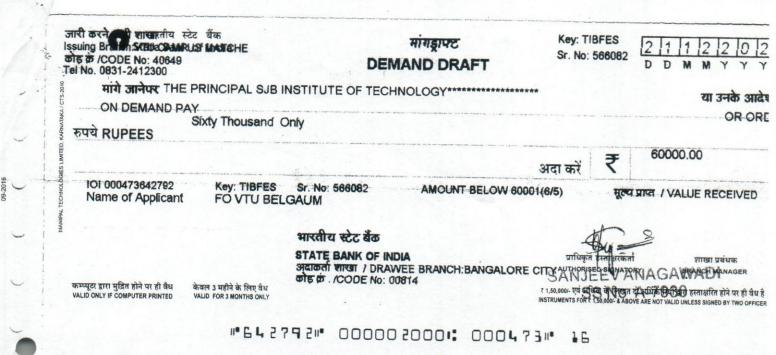
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गरी करने को शासारतीय स्टे suing Brain State गढ़ के /CODE No: 40649 el No. 0831-2412300	ਟ ਬੈਂक <b>13 MAT</b> SHE	मांगड्राफ्ट DEMAND DRAFT	Key: TI Sr. No:		2 1 1 2 2 0 2 D D M M Y Y Y
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	and a second	3	अदा करें	₹	60000.00
IOI 000473642792 Name of Applicant	Key: TIBFES FO VTU BE	Sr. No: 566082 AMOUNT BELOW 60001( LGAUM	6/5)	मूल्य	I STREE / VALUE RECEIVED
कम्प्यूटर द्वारा मुद्रित होने पर ही वैध VALID ONLY IF COMPUTER PRINTED	केवल 3 महीने के लिए वंध VALID FOR 3 MONTHS ONLY	भारतीय स्टेट बैंक STATE BANK OF INDIA अदाकती शाखा / DRAWEE BRANCH:BANGALORE CI कोइ के . /CODE No: 00814	TS ALMOS		े ते शाखा प्रबंधक NAGA WAADAAAGER दे <b>प्रिकि कि</b> स्ताक्षति होने पर ही वैध है

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||Jai Sri Gurudev|| Sri Adichunchanagiri Shikshana Trust (R)

### SJB INSTITUTE OF TECHNOLOGY

(Affiliated to Visvesvaraya Technological University, Belgavi & Approved by AICTE, New Delhi)

No. 67, BGS Health & Education City, Dr. Vishnuvardhan Road,

Kengeri, Bengaluru-560060.

Date: 12/01/2021

As per the circular VTU/BGM/A13/2020-21/5057/13, dated: 5<sup>th</sup> Jan 2021, we have received a DD No. 642792 [21-12-2020] of Rs. 60,000/-(Rupees Sixty Thousand Only) as a Sanction of Financial Assistance towards the final year UG projects. In this regard, the amount has been disbursed to the concerned students with the acknowledgement as mentioned below.

Sl. No	Branch	USN	Name of the students	Title of the Project	Name of Guide/Signature	Amount	Amount received Signature
1	Electrical & Electronics	1JB16EE020 1JB16EE406 1JB17EE410 1JB17EE421	Mahesh V Jayaram L Devika K Tejaswini B R	Controlling of Stepper motor linear actuator slide mechanism using Arduino Board	Dr. Mamatha Mahesh Gowda Man Martha	5000/-	K. Den ike Joyasant.
1	Engineering	1JB17EE419 1JB17EE406 1JB16EE009 1JB17EE422	Prashanth G R Chethan R Danola B K Tejaswini H	Smart Energy Meter with automatic power factor correction remotely	Dr. Chandrashekar M J Chen M.J.	5000/-	Prachanth Che shan
2	Electronics &	1JB17EC406 1JB16EC056 1JB16EC003 1JB16EC040	Chandan M R Manish S A Abhishek Gowda K S Karan Dubey	Multi – Purpose autonomous car copter	Mrs. Divyashree Y V	5000/-	Dundas Kavan
2	Communication Engineering	1JB16EC095 1JB16EC120 1JB16EC071 1JB16EC117	Shreyas S Nikhil C Praveen J Pattar Yashwanth DS	Human Activity Recognition using Deep Learning Techniques	Dr. Mahantesh K	5000/-	Nilshil. C
3	Computer Science &	1JB16CS007 1JB16CS014 1JB16CS020 1JB16CS042	Adithya Jaiswal Akshay Kumar Jadhav Anshul Malhotra Deveasurya R	Skin Cancer Detection using Machine Learning Techniques	Dr. Srikantaiah K C	5000/-	for matering
3	Engineering	1JB16CS145 1JB16CS146 1JB16CS162 1JB16CS164	Sanjay K Hoysala Santhosh K S Srihari D R Suhith Shekar Chandra	Sign Language Translator	Dr. Krishna A N ANUL	5000/-	Subits Sc four

6 Civil Engineerin	1JB16CV012 1JB16CV022 1JB16CV084 1JB16CV019	Ashritha S Eshwar C S Sandeep G K Chirag S A Vinod A Phaneendra B H Bhavana	RS and GIS based (characterization of groundwater potential zones and artificial groundwater recharge techniques for Doddasulikere subwatershed Karnataka Bengaluru) Self-monitoring smart concrete using embedded sensors	Dr. Manjunath H N	5000/-	Sandeep. G.K.
5 Mechanic Engineeri		Manjunath N Gowda Manjunatha B	Design and Fabrication of protable         hydraulic crane         Design and Fabrication of sisal fibre         extracting machine	Dr. T Madhusudhan Vanishree T S Vanishnee T S	5000/-	Ujuenl.s.
4 Information Science and Engineeri	d 1JB16IS087	Rohita G V Sukrutha C Basappa Sushma M Sanjana M K Shama K T Vandya B G Soniya K Dhanush Dundasi	Secured Toll payment System using NFC Cardiac Arrhythmia prediction using Machine Learning Algorithms	Dr. Murali G Werli Y Mr. Abhilash C N	5000/-	Buttowles

Principal /21/01/2021

# Academic Year 2018-19

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# SJBIT



Sl.No.	Name of the research project/ endowment	Name of the Principal Investigator/Co- investigator	Department of Principal Investigator	Year of Award	Amount Sanctioned	Duration of the project	Name of the Funding Agency	Type (Government/non- Government)
1	Intelligent and interactive Plant Disease Supervision using Deep Learning	Dr. Ajay Prakash B V	CSE	2019	5.00	1 Year	VGST	Govt
2	Solar Powered GPS Tracking with Automated of Livestocks and Agricultural Equipment	Dr. K V MahendraPrashanth	ECE	2018	1.55	3 Years	GKVK	Govt
3	Faculty Development Program	Dr. K R Nataraj	ECE	2018	5.00	6 Months	DST- NIMAT	Govt
4	Entrepreneurship Awareness Camp	Dr. K R Nataraj	ECE	2019	1.6	6 Months	DST- NIMAT	Govt



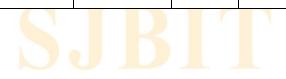


5	IoT based Intelligent Public Transport System for smart Cities using Image processing Techniques	Dr. K V MahendraPrashanth	ECE	2019	0.06	6 Months	KSCST	Govt
6	Hydrogeological studies and remote sensing techniques in mapping groundwater potential zones	Dr. Manjunath H N	CIVIL	2019	0.04	6 Months	KSCST	Govt
7	Utilization of C and D Wastes in Rigid Payment with carbon absorbing property.	Sachin B V	CIVIL	2019	0.045	6 Months	KSCST	Govt
8	Development of Automated Poultry Food Feeder	Mr.Krishnamurthy N K	MECH	2019	0.08	6 months	KSCST	Govt
9	Investigations on the Influence of Nano Fillers on Tribological Behaviors of Areca Fiber Reinforced with Hybrid Composites for Automotive Applications	Dr. Sanjay Kumar S M	MECH	2019	0.08	6 months	KSCST	Govt
10	Modified Agro Vehicle	Mr. Naveen Kumar R R	MECH	2019	0.08	6 months	KSCST	Govt





11	Emergency Vehicle Traffic Control	Mrs. Archana R A	CSE	2019	0.05	6 Months	VTU	Govt
12	Intelligent approaches for plant supervision (IAPS)	Dr. Ajay Prakash B V	CSE	2019	0.05	6 Months	VTU	Govt
13	Arduino based industrial appliances control system by decoding dual tone multi frequency signals on GSM/CDMA network	Mrs. Yamuna U	ISE	2019	0.05	6 Months	VTU	Govt
14	IoT Based Smart parking System	Mr. Darshan K R	ISE	2019	0.05	6 Months	VTU	Govt
15	E-Parichaya: A Class Rol Call Applications System	Mr. Bhaskar B	ECE	2019	0.05	6 Months	VTU	Govt
16	Smart goggles for visually impaired using deep learning neural networks	Mr. Supreeth H S G	ECE	2019	0.05	6 Months	VTU	Govt





17	Eco friendly concrete for sustainability : Utilizing Incinerated ash and Iron Slag as partial replacement materials	Ramesh B M	CIVIL	2019	0.05	6 Months	VTU	Govt
18	Utilization of recycled aggegrate in pavement quality concrete with self healing property.	Puneeth H C	CIVIL	2019	0.05	6 Months	VTU	Govt
19	Design and Fabrication of Cloth Drying Machine	Mr. Adarsh B C	MECH	2019	0.05	6months	VTU	Govt
20	Design and Development of Stair Climbing Wheel Chair	Dr. T Madhusudhan	MECH	2019	0.05	6 months	VTU	Govt
21	Design of a system to detect hazardous gases in vehicle and alerting a user	Prarthana J.V	EEE	2019	0.05	6 months	VTU	Govt
22	Hybrid power system with the design of efficient wind turbine and solar tracking	Dwarakanath S.K	EEE	2019	0.05	6 months	VTU	Govt.
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#### VISION GROUP ON SCIENCE AND TECHNOLOGY

#### Department of IT, BT and S & T, Government of Karnataka

#### List of proposals recommended by VGST for Government grants during the year 2018-19

#### Scheme: Research Grant for Scientist/Faculty (RGS/F)

SI Na		Title of the project	Subject	Funds to be released during the year 2018-19 (Rs. In lakhs)	Total Amount (Rs. In lakhs)	Cheue to be written in favour of
1	Dr. Erumalla Venkata Nagaraju, Assistant Professor, Department of Life Sciences, Christ University (Deemed to be University), Hosur Road, Dharmaram Post, Bangalore- 560 029.	A Novel approach in exploitation of Waste Alginate Generated in Plant Tissue Culture Laboratary towards production of Bloethanol	Geology, Earth & Environmental Sciences	5.00	5.00	The Registrar, Christ University, Bengaluru
2	Dr. Sumathra.M, Assistant Professor, Department of Biotechnology, R.V College of Engineering, Vidyaniketan Post, Mysore Road, Bangalore - 560 059.	Nanoparticle Based Immobilization of Bovine carbonic anhydrase for environmental CO2 Sequestration	Geology, Earth & Environmental Sciences	5.00	5.00	The Principal, RV College of Engineering, Bengaluru
3	Dr. K.V. Venkateswaran, Associate Professor, Department of Electronics and Communication Engineering, Sir M. Visvesvaraya institute of Technology Krishnadevaraya Nagar, Hunasamaranahalli, Bengaluru - 562 157.	A Novel Change detection technique for Modelling and Simulation of Urbanization in Greater Bangalore, India using Remote sensing and GIS	Geology, Earth & Environmental Sciences	5.00	5.00	The Principal, Sir M. Visvesvaraya Institute of Technology, Bengaluru
4	Dr. Sujay Raghavendra. N, Assocoate Professor, Department of Civil Engineering. Shri Madhwa Vadiraja institute of Technology and Management, Vishwothama Nagar, Bantakal - 574 115, Udupi District.	Coastal Hazards of saltwater intrusion: Detection and delineation along the coastal aquifers of Udupi shoreline.	Geology, Earth & Environmenta Sciences	5.00	5.00	The Principal, Shri Madhwa Vadiraja Institute of Technology and Management, Bantakai
5	Dr. M.A. Phaniband, Assistant Professor, Department of Chemistry, SDM College of Engineering and Technology, Dhavalgiri, Dharwad - 580 002.	Nanofilteration process to remove dye from textile effluents in prevention of environmental pollution	Geology, Earth & Environments Sciences	. 5.00	5.00	The Principal, SDM College of Engineering and Technology, Dharwad
6	Dr. Pradeep Kumar. G. S, Assistant Professor, Department of Mechanical and Automobile Engineering, Christ University (Deemed to be University), Faculty of Engineering (CUFE), Kaminike, Kumbalgodu, Mysore Road, Kengeri, Bengaluru - 560074.	Development of HVOF coatings on aluminum alloy: as an alternative to hard chrome plating	s Mechnanical Engineering	5.00	5.00	The Registrar, Christ University, Bengaluru
7	Dr. Gangadhar. N, Assistant Professor, Deaprtment of Mechanical Engineering, Dr. Ambedkar Institute of Technology, Mallathalli, Bengaluru - 560 056.	Condition monitoring of Internal Combustion (IC) Engine Using Vibration Analyses and Acoustic Emission Technique.	Mechnanical Engineering	5.00	5.00	The Principal, Dr. Ambedkar Institute of Technology, Bengaluru

Prof.Roddam Narasimha, FRS Sub-Committee Chairmen, VGST

see a series

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8	Dr. Rathishchandra. R. Gatti, Professor, Department of Mechanical Engineering. Sahyadri College of Engineering and Management, Sahyadri Campus, Adyar, Mangaluru - 575 007.	Design and Development of a Novel Point Absorber Type Wave Energy Generator for Micro-Grids and Desalination for agricultural purposes	Mechnanical Engineering	5.00	5.00	The Principal, Sahyadri College of Engineering and Management, Mangaluru
9	Dr. Nithesh. K. G, Assistant Professor, Department of Mechnanical Engineering. Siddaganga Institute of Technology, Tumakuru - 572 103	CFD Approach to Predict the Performance Characteristics of Radial Turbine Designed for low thermal energy conversion power plant applications	Mechnanical Engineering	5.00	5.00	The Principal, Siddaganga Institute of Technology, Tumakuru
10	Dr. Divya jyothi, Assistant Professor, Department of Pharmacognosy, Nitte Gulabi Shetty Memorial Institute of Pharmaceutical-Sciences, Paneer, Deralakatte, Mangalore - 575018	Development of Characterization of plant oil based potent anticholinesterase microemulsion containing Withania somnifera extract with enhanced transdermal delivery of phytoconstituents for the treatment of cognitive disorders.	Pharmacy	5.00	5.00	The Principal, Nitte Gulabi Shetty Memorial Institute of Pharmaceutical Sciences, Deralakatte, Mangaluru
11	Dr. V. Gnanavel, Assistant Professor, Department of Pharmaceutical Chemistry, Krupanidhi College of Pharmacy, Chikka Bellandur, Carmelaram Post, Varthur, Hobli, off Sarjapur Road, Bengaluru - 560 035.	Phytochemicals Based Nanomedicines for the Treatment of Breast Cancer	Pharmacy	5.00	5.00	The Principal, Krupanidhi College of Pharmacy, Bengaluru
12	Dr. Virupana Gowda P Patil, Assistant Professor, Department of Pharmacology, BLDEA's SSM College of Pharmacy and Research Centre, BLDE University Campus, Solapur Road, Vijaypur - 586 103.	Evaluation of antistress and anxiolytic activities of Cocos nucifera	Pharmacy	5.00	5.00	The Principal, BLDEA's SSM College of Pharmacy and Research Centre, Vljaypur
13	Dr. Girish A Hampannavar, Assistant Professor, Department of Pharmaceutical Chemistry, KLE College of Pharmacy, Vidyanagar, Hubballi - 580 031.	Design, Synthesis and Biological Evaluation of styryl derivatives from Dehydrozingerone as a Potential Anti-tubercular Agents	Pharmacy	5.00	5.00	The Principal, KLE College of Pharmacy, Hubballi
14	Dr. Sib Sankar Mal, Assistant Professor, Department of Chemistry, National Institute of Technology of Karnataka(NITK), Surathkal, Mangalore - 575025	Synthesis of Levulinate esters using heteropolycids as potentially green catalyst	Chemistry	5.00	5.00	The Director, NITK, Surathkal
15	Dr. Ajay Prakash. B. V. Assistant Professor, Department of Computer Science and Engineering. SJB Institute of Technonlogy, BGS Health & Education City, Dr. Vishnuvardhana Road, Kengeri, Bengaluru - 560 060.	Intelligent and Interactive Plant Disease Supervision using Deep Learning	Computer Science and Engineering	5.00	5.00	The Princi <b>pal</b> , SJB Institute of Technonlogy, Bengaluru

Prof.Roddam Narasimha, FRSProf. Reddom Moracimha, ER.S. Sub-Committee Chairmen, VGST

Head of the Department Dept. of Computer Science and Engineering SJB INSTITUTE OF TECHNOLOGY BGS Health & Education City, Sengaluru-560 060.

Page 2 of 7

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### ಕರ್ನಾಟಕ ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ಪೋತ್ಸಾಹಕ ಸೊಸೈಟ

ಮಾಹಿತಿ ತಂತ್ರಣ್ಞಾನ. ಟೈವಿಕ ತಂತ್ರಣ್ಞಾನ ಹಾಗೂ ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ಇಲಾಖೆ, ಕರ್ನಾಟಕ ಸರ್ಕಾರ ವಿಜ್ಞಾನ ಛವನ' ನಂ: 24/2. 3ನೇ ಮಹಡಿ, 21ನೇ ಮುಖ್ಯ ರಸ್ತೆ, ಬನಶಂಕರಿ 2ನೇ ಹಂತ, ಬೆಂಗಳೂರು–560 070 ದೂರವಾಣೆ/ಫ್ಯಾಕ್ಸ್: 080-26711166 /26711160 ಇ–ಮೇಲ್: ksteps.dst@gmail.com

**ಡಾ. ಹೆಚ್. ಹೊನ್ನೇಗೌಡ** ಸರ್ಕಾರದ ವಿಶೇಷ ಕಾರ್ಯದರ್ಶಿ (ತಾಂತ್ರಿಕ), ವಿತಂಇ/ ವ್ಯವಸ್ಥಾಪಕ ನಿರ್ದೇಶಕರು, ಕೆಸ್ಟೆಪ್ಸ್

ಸಂ. KSTePS/VGST/RGS-F/2018-19/GRD-807/91/2019-20 /279 ಮಾನ್ಯರೇ,

ದಿನಾಂಕ: 30.12.2019

**ವಿಷಯ**: 2018–19ನೇ ಸಾಅನ ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ದಾರ್ಶನಿಕ ಸಮೂಹದ RGS/F ಯೋಜನೆಯಡಿಯಲ್ಲ ಅನುದಾನ ಜಡುಗಡೆ ಮಾಡಿರುವ ಬಗ್ಗೆ.

ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ಇಲಾಖೆಯು, ಖ್ಯಾತ ವಿಜ್ಞಾನಿ ಭಾರತರತ್ನ ಪ್ರೊಫೆಸರ್ ಸಿ.ಎನ್.ಆರ್. ರಾವ್, F.R.S. ರವರ ಅಧ್ಯಕ್ಷತೆಯಲ್ಲ ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ದಾರ್ಶನಿಕ ಸಮೂಹ (ವಿತಂದಾಸ) ವನ್ನು 2008ರಲ್ಲಿ ಸ್ಥಾಪಿಸಿದ್ದು, ಈ ಯೋಜನೆಯಡಿ ಹಲವಾರು ವೈಜ್ಞಾನಿಕ ಕಾರ್ಯಕ್ರಮಗಳನ್ನು ಕಳೆದ 11 ವರ್ಷಗಳಂದ ರಾಜ್ಯಾದ್ಯಂತ ಯಶಸ್ವಿಯಾಗಿ ಅನುಷ್ಠಾನಗೊಳಸಿಕೊಂಡು ಬರುತ್ತಿರುವುದು ಸರಿಯಷ್ಠೆ. 2018–19ನೇ ಸಾಅನಲ್ಲ ತಮ್ಮ ಸಂಸ್ಥೆಯಿಂದ ಸಲ್ಲಸಿದ ಪ್ರಸ್ತಾವನೆಯಾದ "Intelligent and Interactive Plant Disease Supervision using Deep Learning" ನ್ನು ವಿತಂದಾಸದ ಪ್ರಮುಖ ಕಾರ್ಯಕ್ರಮವಾದ <u>Research Grants for the Scientists/Faculty (RGS/F)</u> ಅಡಿಯಲ್ಲ ದಾರ್ಶನಿಕ ಸಮೂಹವು ಆಯ್ಕೆ ಮಾಡಿ, ಸರ್ಕಾರ ಆದೇಶ ನೀಡಿರುವುದು ತಮಗೆ ತಿಳಿದ ವಿಷಯವಾಗಿದೆ.

ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ಇಲಾಖೆಯ ಅಂಗ ಸಂಸ್ಥೆಯಾದ ಕರ್ನಾಟಕ ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ಪ್ರೋತ್ಸಾಹಕ ಸೊಸೈಟ (ಕೆಸ್ಟೆಪ್ಸ್) ಯನ್ನು 2016–17ನೇ ಸಾಆನಿಂದ ದಾರ್ಶನಿಕ ಸಮೂಹದ ಯಾಕ್ರಮಗಳ ಉಸ್ತುವಾರಿ ಸಂಸ್ಥೆಯಾಗಿ ನೇಮಿಸಲಾಗಿದೆ. ಆದುದರಿಂದ, ತಮ್ಮ ಸಂಸ್ಥೆಯಿಂದ ಆಯ್ಕೆಗೊಂಡ ಪ್ರಸ್ತಾವನೆಗೆ ರೂ. 5.00 ಲಕ್ಷ್ರಗಳ ಅನುದಾನವನ್ನು ತಮ್ಮ ಸಂಸ್ಥೆಗೆ ದಿನಾಂಕ: 12.12.2019 ರಂದು ಕೆಸ್ಟೆಪ್ಸ್ ನಿಂದ RTGS (UTR NO. SBINR52019121200124626) ಮೂಲಕ SJB Institute of Technonlogy ಹೆಸರಿನ ಖಾತೆಗೆ ಜಮಾ ಮಾಡಲಾಗಿರುತ್ತದೆ. ಅದರಂತೆ, ತಾವು ಅನುದಾನ ಸ್ವೀಕರಿಸಿರುವುದಕ್ಕೆ ಸ್ವೀಕೃತಿ ರಶೀದಿ (Acknowledgement) ಯನ್ನು ಕೆಸ್ಟೆಪ್ಸ್ ಸಂಸ್ಥೆಗೆ ಕಳುಹಿಸುವುದು.

ಈ ಸಂಬಂಧ, ತಮ್ಮ ಸಂಸ್ಥೆಗೆ ಜಡುಗಡೆ ಮಾಡಿರುವ ಅನುದಾನವನ್ನು ಈ ಕೆಳಕಂಡ ಷರತ್ತು ಮತ್ತು ನಿಬಂಧನೆಗಳನ್ವಯ ಉದ್ದೇಶಿತ ಯೋಜನೆಗೆ ಮಾತ್ರ ಬಳಸಿಕೊಂಡು ಅನುಷ್ಠಾನಗೊಳಸುವುದು.

Sent by R.P. HEJAM. 2/11/2020

...2 Head of the Department Dept. of Computer Science and Engineering SJB INSTITUTE OF TECHNOLOGY BGS Health & Education City, No. 67, Uttarahaili Road, Kengeri, Bengaluru-560 060.



#### 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 Consultant

No.VGST/GRD -807/2018-2019/2019-20/655

Date: 22.01.2020

To, The Principal, S.J.B Institute of Technology, #67, BGS Health & Education City, Dr.Vishnuvardhana Road, Kengeri, Bangalore – 560 060.

Dear Sir.

### Sub: Approval for the submission of PART-A for the purchase of equipment – GRD 807

With reference to the above subject, the project was sanctioned to Dr. Ajay Prakash. B.V, Associate Professor, Department of Computer Science and Engineering, S.J.B. Institute of Technology, #67, BGS Health & Education City, Dr. Vishnuvardhana Road, Kengeri, Bengaluru - 560060, under the scheme RGS/F the project titled "Intelligent and Interactive Plant Disease Supervision using Deep Learning" and released the grant of Rs 5.00 lakhs for one-time grant in the FY : 2018-2019 (UTR NO. SBINR52019121200124626 Date: 12.12.2019)

As submitted the PART – A of GRD by the Grantee Institution requesting for the purchase of equipment for the one-time grant and the details are as follows:

### One-time grant – Non-Recurring items under Manual-Tendering Process for the FY: 2018-19

SI. No.	Submitted in PART –A under Non- Recurring (ETP) items by Grantee Institution	Unit Price (Rs)	Total Unit	Amount (Rs)
	Dell Workstation (Delta V)	90,000.00	1	90,000.00
1	MySql 5.6, Cloud Server	98,000.00	1	98,000.00
2	MySqi 5.0, cloud oct a			(17m)

todicse 27.01.20





### ಕೃಷಿ ವಿಶ್ವವಿದ್ಯಾನಿಲಯ, ಬೆಂಗಳೂರು UNIVERSITY OF AGRICULTURAL SCIENCES, BANGALORE

B.A. ANAND M.E (Ele). (PhD) Assistant Professor, Electrical Engg. Email Id : lovanand1586@gmail.com Department of Agricultural Engineering G.K.V.K. Bangalore - 560 065 Mobile : 09480306217

NO. Ag. Engg. 2019-201558

2020 03

### CERTIFICATE

This is to certify that **Dr. K.V. Mahendra Prashanth**, Head of the Department, Department of Electronics and Communication Engineering, S.J.B. Institute of Technology, BGS Health and Education City, Uttarahalli Road, Bangalore is working has an **Co-Principal Investigator** for the following projects, which is funded by Directorate of Research, University of Agricultural Sciences, Bangalore.

S1.	Project Title	Project Outlay	Year of
No.		[Rs.] in lakhs	Sanction
1.	Design, Development and		
	Performance Evaluation of a field bean Deskinner Prototype	5.20	2017-18
2.	Solar Powered GPS BasedTracker with Automated Reckoning of Livestock and Agricultural Equipments	1.55	2018-19

13 03 2 Principal Investigator

cipal

B Institute of Technology B Health & Education City

7, Uttarahalli Road, Kengeri

angalore South - 560 060

Dr. B.A. ANAND. Ph.D. (Ele) Principal Investigation Dept. of Agricultural Engineering UAS-B, G.K.V.K. Campus, Bangalore-65

Encl.

Director of Research Order No. DR/VTDP/2017-18 Dated 20.07.2017
 Director of Research Order No. DR/VTDP/6899/2018-19 Dated 29.11.2018

Head

Dept. of Electronics & Communication Eng. SJB Institute of Technology Bengaluru-560060

#### Guidelines:

- 1. No provision for NRC, POL and Purchase of Equipments.
- 2. Stationery restricted to Five thousand per year only.
- 3. Photo copies of all the claimed bills should be maintained for audit purpose.
- 4. Maintenance of following records is mandatory:
  - a. Manpower recruitment and payment records
  - b. Receipt and expenditure register
  - c. Day Book of Receipts (DBR) and Day Book of Issues (DBI)
  - d. Experimental register containing all the technical details of the experiments concerned to the project and experimental observations indicating all the parameters.
  - e. Other auditable records
- 5. The results should be presented in Annual Technical Meet of the respective discipline and the copy of the proceedings should be submitted for having presented the same.
- 6. The monitoring team constituted by the Directorate of Research, UAS, GKVK will visit once in a quarter and submit a detailed report to the Director of Research for subsequent release of funds.

DIRECTOR OF RESEARCH DIRECTOR OF RESEARCH University of Agri. Sciences JKVK, BANGALORE - 560 065

To:

Mr. B.A. Anand Assistant Professor Dept. of Agril. Engineering UAS, GKVK, Bengaluru

Dr. B.A. ANAND. Ph.D. (Ele) Principal Investigation Dest Statistic Engineering UA2 spis. Bangaicre 65

### UNIVERSITY OF AGRICULTURAL SCIENCES, BENGALURU

Directorate of Research GKVK, Bengaluru – 560 065 Date: 20.07.2017

#### No. DR/VTDP/2017-18

NOTE :-

Sub:- Research Project Proposal "Design, development and performance evaluation of a field bean De-skinner prototype" under Varietal & Technology Development and Value addition grants - reg.

Ref: Approval of the Vice Chancellor, UAS, GKVK dated:15.07.2017

The project proposal entitled "Design, development and performance evaluation of a field bean De-skinner prototype" (AB. A/c. 6819) under Varietal & Technology Development and Value addition grants was examined and following is the budget allocation for the above cited project proposal.

			(R	s. in lakhs
Sl. No.	Particulars	2017-18	2018-19	Total
1.	Manpower	0.90	1.20	2.10
2.	Contingency	2.00	1.00	3.00
3.	Travel grants	0.05	0.05	0.10
	Total	2.95	2.25	5.20

Budget provision for 2018-19 is tentative and subject to availability of grants. The Comptroller, UAS(B) has already issued office order for release of 50% budget for 2017-18 (Copy enclosed). Remaining 50% of the budget will be released during November 2017 based on the performance and progress of research and subject to submission of half yearly progress report. Further, PI is hereby informed to provide detailed financial breakup (except S1.No.1&3, only for contingency) to comptroller through Director of Research to obtain revised / re-appropriated office order under the following DAC numbers.

DAC-263	- Purchase of Stationery
DAC - 361	- Farm Inputs

DAC - 544 - Contract Labor

The following terms and conditions shall be followed by the PI while implementing the project:

- 1. The PI will submit detailed plan of action upon the receipt of the Office order.
- Project should not be a part of AICRP programmes/ any other Adhoc projects operated in the University.
- 3. This project should not have been funded or repeated under any other financial source.
- The project should be operated independently and in any case there shall not be provision for any kind of fellowships / scholarships.
- 5. If project is a part of the PG studies, the name and ID number of the student concerned needs to be provided.

ಕೃಷಿ ವಿಶ್ವವಿದ್ಯಾನಿಲಯ, ಬೆಂಗಳೂರು

ಸಂಶೋಧನಾ ನಿರ್ದೇಶಕರ ಕಛೇರಿ, ಗಾ.ಕೃ.ವಿ.ಕೆ, ಬೆಂಗಳೂರು – 560 065. ದಿನಾಂಕ:29.11.2018

ಸಂಖ್ಯೆ: ಸಂ.ನಿ/ಮು.ವೈ.ಅ./6899/2018-19

ಟಿಪಣೆ:

ವಿಷಯ: 2018–19ನೇ ನಾಲಿನಲ್ಲಿ ತಳಿ ಮತ್ತು ತಾಂತ್ರಿಕತೆ ಅಭಿವೃದ್ಧಿ ಹಾಗೂ ಮೌಲ್ಯವರ್ಧನೆ ಕಾರ್ಯಯೋಜನೆಯಡಿಯಲ್ಲಿ ತಮ್ಮ ಸಂಶೋಧನಾ ಯೋಜನೆಗೆ ಅನುದಾನ ಒದಗಿಸುವ ಕುರಿತು. ಉಲ್ಲೇಖ: ಸಂಖ್ಯೆ: ಹ.ನಿ.ಕ/ಬಿ&ಆರ್/6899/2018–19 ದಿನಾಂಕ: 24.11.2018

ತಳಿ ಮತ್ತು ತಾಂತ್ರಿಕತೆ ಅಭಿವೃದ್ಧಿ ಹಾಗೂ ಮೌಲ್ಯವರ್ಧನೆ ಕಾರ್ಯಯೋಜನೆಯಡಿಯಲ್ಲಿ ತಮ್ಮ ಸಂಶೋಧನಾ ಯೋಜನೆಗೆ – "Solar powered GPS based tracker with automated reckoning of livestock and agricultural equipments" 2018–19ನೇ ಸಾಲಿಗೆ ಲೆಕ್ಕ ಶೀರ್ಷಿಕೆ 6899 ಅಡಿಯಲ್ಲಿ ರೂ.1,50,000/– ಗಳನ್ನು (ಒಂದು ಲಕ್ಷದ ಐವತ್ತು ಸಾವಿರ ರೂಗಳು ಮಾತ್ರ) ಒದಗಿಸಲಾಗಿದೆ.

\*-\*-\*

ಯೋಜನೆಯ ೩೩ಧ ಉದ್ದೇಶಗಳಿಗನುಸಾರವಾಗಿ ಉಪ ಶೀರ್ಷಿಕೆ (DAC) ಗಳು ಲಭ್ಯವಿದ್ದು ಇವುಗಳ ಸಂಖ್ಯೆಯನ್ನು ನಮೂದಿಸಿ ಯೋಜನೆಗೆ ಅನುದಾನದ ಮೊತ್ತವನ್ನು ಹಂಚಿಕೆ ಮಾಡಲು ಹಣಕಾಸು ನಿಯಂತ್ರಣಾಧಿಕಾರಿಗಳಿಗೆ ಸಂಶೋಧನಾ ನಿರ್ದೇಶಕರ ಮುಖಾಂತರ 10.12.2018ರೊಳಗೆ ಕೋರಿಕೆಯನ್ನು ಕನ್ನಡದಲ್ಲಿ ಸಲ್ಲಿಸತಕ್ಕದ್ದು.

ನಿಬಂದನೆ / ಷರತ್ತುಗಳು

- 🗸 ಯೋಜನೆಯ ಪ್ರಸ್ತಾವನೆಗೆ ಮಂಜೂರಾದ ಅನುದಾನವು ಪ್ರಸ್ತುತ ಹಣಕಾಸಿನ ವರ್ಷಕ್ಷಷ್ಠೆ ಅನ್ವಯಿಸುವುದು (ಒಂದು ವರ್ಷಕ್ಕೆ ಮಾತ್ರ)
- ✓ ವಿಸ್ತ್ರತವಾದ ಕ್ರಿಯಾ ಯೋಜನೆಯನ್ನು ಯೋಜನೆ ಅನುಷ್ಠಾನಗೊಳಿಸುವ ಮುನ್ನ ಜರೂರಾಗಿ ಸಂಶೋಧನಾ ನಿರ್ದೇಶನಾಲಯಕ್ಕೆ ಸಲ್ಲಿಸತಕ್ಕದ್ದು.
- ✓ ಸದರಿ ಯೋಜನೆಯ ರೂಮರೇಷೆಗಳು, ತಾಂತ್ರಿಕತೆ ಕಾರ್ಯಕ್ರಮ/ವಿವರಗಳು ಇನ್ಯಾವುದೇ ಇತರೆ ಯೋಜನೆ (AICRPs/Adhoc projects) ಗಳಲ್ಲಿ ಒಳಗೊಂಡು ಮನಾರವರ್ತಿತವಾಗಿರಬಾರದು.
- 🗸 ಯಾವುದೇ ಮೂಲಗಳಿಂದ ಸದರಿ ಯೋಜನೆಗೆ ಹಣಕಾಸಿನ ನೆರವು ದೊರಕಿರಬಾರದು/ ಪ್ರಾಯೋಜಿತವಾಗಿರಬಾರದು.
- ✓ ಸದರಿ ಯೋಜನೆಯ ಅನುದಾನವು ಯಾವುದೇ ವಿಧ್ಯಾರ್ಥಿವೇತನ / ಶಿಷ್ಯವೇತನಕ್ಕೆ ಬಳಸಬಾರದು ಹಾಗೂ ಯೋಜನೆಯು ಸ್ವತಂತ್ರವಾಗಿ ಪ್ರಧಾನ ಸಂಶೋಧಕರಿಂದ ನಿರ್ವಹಿಸತಕ್ಕದ್ದು
- ✓ ಸ್ನಾತಕೋತ್ತರ ವಿಧ್ಯಾರ್ಥಿಗಳ ಅಧ್ಯಯನಕ್ಕೆ ಯೋಜನೆಯ ತಾಂತ್ರಿಕ ಕಾರ್ಯಕ್ರಮ ಅಳವಡಿಸಿದ್ದೆ ಆದಲ್ಲಿ ಸಂಬಂಧಪಟ್ಟ ವಿಧ್ಯಾರ್ಥಿಯ ಹೆಸರು ಹಾಗೂ ಗುರುತಿನ ಸಂಖ್ಯೆಯನ್ನು ಒದಗಿಸತಕ್ಕದ್ದು.
- ✓ ಯೋಜನೆಯಲ್ಲಿ ಉಪಕರಣಗಳು/ ಯಂತ್ರೋಪಕರಣಗಳು/ ಮನರಾವರ್ತಿತವಲ್ಲದ ಸಾದಿಲ್ವಾರು/ ವಾಹನ ಇಂಧನ (POL) ಸಂಬಂಧಿತ ವಸ್ತುಗಳನ್ನು ಖರೀದಿಸಲು ಅನುದಾನವನ್ನು ಬಳಸಲು ಅವಕಾಶವಿರುವುದಿಲ್ಲ.
- 🖌 ಲೇಖನ ಸಾಮಗ್ರಿಗಳನ್ನು ಖರೀದಿಸಲು ವಾರ್ಷಿಕ ರೂ.5000/- ಗಳಿಗೆ ಮಾತ್ರ ಸೀಮಿತ. orthonormood & zomortoslei to to
- ✓ ಫಯಾಣ ಭತ್ಯ ವಾರ್ಷಿಕ ರೂ.5000/− ಗಳಿಗೆ ಮಾತ್ರ ಸೀಮಿತ.

ಮ.ತಿ.ನೋ.....

- ✓ ಅನುದಾನ ಬಳಸಿಕೊಂಡು ಸಲ್ಲಿಸಿದ ಬಿಲ್ ಗಳ ನಕಲು ಪ್ರತಿಗಳನ್ನು ಲೆಕ್ಕ ಪರಿಶೋಧನೆಗಾಗಿ ದಾಖಲಿರಿಸತಕ್ಷದ್ದು.
- ✓ ಈ ಕೆಳಕಂಡ ದಸ್ತಾವೇಜುಗಳ ನಿರ್ವಹಣೆ ಕಡ್ಡಾಯವಾಗಿ ಮಾಡತಕ್ಕದ್ದು.
  - ಮಾನವ ಸಂಪನ್ಮೂಲದಡಿಯಲ್ಲಿ ನೇಮಕಗೊಂಡ ಹಾಗೂ ವೇತನಕ್ಕೆ ವೆಚ್ಚಮಾಡಿದ ವಿವರಗಳ ದಾಖಲೆಗಳು
  - ಸ್ವೀಕೃತಿ ಹಾಗೂ ವ್ಯಯಮಾಡಿದ ದಾಖಲೆಗಳು (Receipt and Expenditure)
  - ದೈನಂದಿನ ಸ್ವೀಕೃತಿ ಹಾಗೂ ಹಂಚಿಕೆಯ ದಾಖಲಾತಿಗಳು (DBR and DBI)
  - ಯೋಜನೆಯ ಸಂಶೋಧನಾ ಪ್ರಯೋಗಗಳಿಗೆ ಸಂಬಂಧಿಸಿದ ತಾಂತ್ರಿಕ ವಿವರಗಳು ಹಾಗೂ ಪ್ರಯೋಗಗಳಲ್ಲಿ ವಿವಿಧ ಗುಣಲಕ್ಷಣಗಳ ಬಗ್ಗೆ ಅವಲೋಕನಗಳನ್ನೊಳಗೊಂಡ ವಿವರವಾದ ದಾಖಲೆಗಳು (Experimental register).
  - ಇತರೆ ಲೆಕ್ಕ ಪರಿಶೋಧನೆಗೆ ಸಂಬಂಧಿಸಿದ ಎಲ್ಲಾ ದಾಖಲೆಗಳು.
  - ✓ ಯೋಜನೆಯ ಫಲಿತಾಂಶಗಳನ್ನು ಆಯಾ ವಿಭಾಗದ ವಾರ್ಷಿಕ ತಾಂತ್ರಿಕ ಸಭೆ (Annual Technical Meet) ಗಳಲ್ಲಿ ಮಂಡಿಸಿ ಇದರ ಸಂಬಂಧಿತ ನಡಾವಳಿಗಳನ್ನು ಸಂಶೋಧನಾ ನಿರ್ದೇಶನಾಲಯಕ್ಕೆ ಸಲ್ಲಿಸತಕ್ಕದ್ದು.
  - ✓ 2018-19ನೇ ಸಾಲಿನ ಯೋಜನೆಯ ಎರಡನೇ ವರ್ಷದ ಅನುದಾನ ಬಿಡುಗಡೆಯು ಸಂಶೋಧನಾ ನಿರ್ದೇಶಕರಿಂದ ನಿಯೋಜಿಸಲ್ಪಟ್ಟ ಮೇಲ್ಡಿಚಾರಣೆ ಸಮಿತಿಯ ವಿಸ್ತೃತವಾದ ವರದಿ ಹಾಗೂ 2019-20ನೇ ಸಾಲಿಗೆ ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಕೃಷಿ ವಿಶ್ವವಿದ್ಯಾಲಯಕ್ಕೆ ಮಂಜೂರಾಗುವ ಅನುದಾನವನ್ನು ಅವಲಂಬಿಸಿರುತ್ತದೆ.
  - ✓ ಸದರಿ ಸಮಿತಿಯು ಮೂರು ತಿಂಗಳಿಗೊಮ್ಮೆ ಯೋಜನಾ ಪ್ರದೇಶಗಳಿಗೆ ಭೇಟಿನೀಡಿ ಸೂಕ್ತ ಮಾರ್ಗದರ್ಶನಗಳನ್ನು ನೀಡುವುದು.

ಸಂಶೋಧನಾ ನಿರ್ದೇಶಕರು

ಡಾ॥ ಆನಂದ ಬಿ.ಎ. ಸಹಾಯಕ ಪ್ರಾಧ್ಯಾಪಕರು (ಕೃ.ಯ. & ವಿ.ಇ.ವಿ.) ಕೃಷಿ ಇಂಜಿನಿಯರಿಂಗ್ ವಿಭಾಗ ಕೃವಿವಿ, ಜಿಕೆವಿಕೆ, ಬೆಂಗಳೂರು

Head

Dept. of Electronics & Communication Engg SJB Institute of Technology Bengaluru-560060



ipal SJB Institute of Technology BGS Health & Education City No. 67, Uttarahalli Road, Kengeri Bangalore South - 560 060

Dr. B.A. ANAND. Ph.D. (Ele) Principal Investigation Dept of Apricultural Engineering UAS-1, C.S. V.K. Cumpus, Bangalore-65

### ENTREPRENEURSHIP DEVELOPMENT INSTITUTE OF INDIA



Near Village Bhat, Via Ahmedabad Airport & Indira Bridge, P.O. Bhat - 382 428, Dist. : Gandhinagar, Gularat, India. Tel.:+91-79-23969153, 23969158, 23969159, 23969161

E-mail : info@ediindia.org

Telefax : +91-79-23969164 Website : www.edlindia.org

S. B. Sareen Sr. Faculty & Project Director: DST-NIMAT

EDII/DST-NIMAT/18-19/215 Date: 03/07/2018

fTechnology

NAS MEANIN & BOUGHTON CH r: Wishnoverdhan Doad

SPEED POST

Dr. Puttaraju Principal S. J. B. Institute of Technology # 67, BGS Health & Education City, Dr. Vishnuvardhan Road, Kengeri Bengaluru - 560 060 Karnataka

Kind Attention: Dr. Nataraj K. R., Professor & HoD (Dept. of ECE) Dr. Mallikarjunaswamy S., Associate Professor, Dept. of Electronics & Communication Engg.

Dear Sir.

### Sub: DST-NIMAT Project 2018-19: Sanction Order

Greetings from EDII, Ahmedabad!

This is with reference to your proposal submitted for conducting activities / programme(s) under the aegis of National Science & Technology Entrepreneurship Development Board (NSTEDB), Department of Science and Technology, Govt. of India, New Delhi.

We are happy to inform you that the following activities / programmes have been sanctioned:

Sr. No.	Activity / Programme	No.	Amount in Rs.	Locations
1	Entrepreneurship Awareness Camp (EAC)	5	100000	As mentioned in
2	Technology based Entrepreneurship Development Programme (TEDP)	1	300000	proposal 1) Bengaluru
3	Faculty Development Programme (FDP)	1	250000	1) Bengaluru
	Total	7	650000	

You are requested to please go through the enclosed Guidelines / Terms & Conditions as it is mandatory to follow the same.

Dept. of Electronics & Communication Engg. SJB Institute of Technology Bengaluru-560060

Dreame source

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09Y,

SJB INSTITUTE OF TECHNOLOGY

#67, BGS Health & Education City, Dr. Vishnuvardhan Road, Kengeri, Bengaluru – 560060. KARNATAKA, INDIA. Phone: +91-80-28612445/46 | Fax: +91-80-28612651 | Email:principal@sjbit.edu.in SJB Technology Business Incubation Center

### **OVERVIEW OF INCOME AND EXPENDITURE STATEMENT**

### ENTREPRENEURSHIP AWARENESS CAMP

SI.NO	EXPENDITURE HEAD	
1.	Manpower Expenses	Sanctioned Amount IN RS.
2.	Travel and Industrial Visits	40,000
3.	Miscellaneous & Contingencies	36,000
4.	Administrative Expenses	60,000
		24,000
	Sanctioned Total Amount	1,60,000

### PROGRAMME EXPENDITURE

Training Expenses

172220

SI.NO	TRAINEE NAME	AMOUNT IN Rs		
2.	Lakshimikanth S Pooja S	20,000		
		20,000		
	TOTAL	40,000		

Travel and Industrial Visits

SI.NO	PARTICULARS		
1.	Local Traveling Universal holidays		AMOUNT IN Rs
	e on voisar nondays		36,000
		TOTAL	36,000

- Miscellaneous & Contingencies: 61,644
- Administrative Expenses :24,000
- Lodging/Boarding Expenses : NIL

Fund Receive Towards EAC Total Expenditure towards EAC

1,60,000 -1, 61,644

Programme coordizate 3/19

- 0, 01,644 SJB Institute of Technology

BGS Health & Education City No. 67, Uttarahalli Road, Kengeri Bangalore South - 560 060.

Queens soche Ken BGS Health & Education City, 09-ninispnad . 1601 Dr. Vishnuvardhan Road, 044283 engeri, Bengaluru - 560 060.

Dept. of Electronics & Communication Engg. SJB Institute of Technology Bengaluru-560060

# SJB INSTITUTE OF TECHNOLOGY

#67, BGS Health & Education City, Dr. Vishnuvardhan Road, Kengeri, Bengaluru - 560060.

KARNATAKA, INDIA.

Phone: +91-80-28612445/46 | Fax: +91-80-28612651 | Email:principal@sjbit.edu.in SJB Technology Business Incubation Center

OVERVIEW OF INCOME AND EXPENDITURE STATEMENT

TWO FACULTY DEVELOPMENT PROGRAMME Sanctioned Amount Rs 500000.00 SINO

51.110	EXPENDITURE HEAD		
1.	Training Expenses	AMOUNT IN RS.	
2.	Travel and Industrial Visits	1,35,000	
3.	Miscellaneous & Contingencies	60,000	
4.	Administrative Expenses	65,000	
5.	Lodging/Boarding Expenses	52,000	
0.	Sandi	1,88,000	
raining	Expenses Sanctioned Total Amount	5,00,000	

SI.NO	TRAINEE NAME	
1.	VishwanathSajjan	AMOUNT IN Rs
2.	Shri Harsha D	25,000
3.	Naveen B	29,000
4.	Raju B P G	26,000
5.	AnanthaSomayaji	29,000
		26,000
ravel a	nd Industrial Visits T	OTAL 1,35,000

PARTICULARS           1.         Local Traveling Universal holidays	AMOUNT IN
	60.258
Aiscellaneous & Contingencies: 66,056 Administrative Expenses :52,000	TOTAL 60,258 /

SI.NO	Lodging/Boarding Expenses	
1.	Universal holidays	AMOUNT IN Rs
Fund Recei	ve Towards EDD TOT.	AL 1.88,537

Fund Receive Towards FDP

UTE OF

Total Expenditure towards FDP

-5, 01,891

1,88,537 5,00.000

Balance

-0, 01,891

Programme coordinator

Dept. of Electronics & Communication Engg. SJB Institute of Technology Bengaluru-560060



E Institutu 101 S Health & Education City to 67, Uttarahalli Road, Kenger Bangalare South - 560 060 ncipal

SJB Institute of Technology # 67, BGS Health & Education City, Dr. Vishnuvardhan Road, Kengeri, Bengaluru - 560 060.

### 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 || Phone: 080-23600978

#### 42<sup>nd</sup> Series of Student Project Programme: 2018-19

#### List of Projects Sanctioned Under Stream C

#### 97. S.J.B. INSTITUTE OF TECHNOIOGY, BENGALURU

SI. No.	PROJECT REFERENCE NO.	PROJECT TITLE	BRANCH	DEGREE	NAME OF THE GUIDE	NAME OF THE TEAM LEADER	TOTAL (in Rs.)
1.	42S_BE_0211	DEVELOPMENT OF AUTOMATED POULTRY FOOD FEEDER	MECHANICAL ENGINEERING	BE	Prof. KRISHNA MURTHY N K	Mr. DHRUVASURYA K N	8000.00
2.	42S_BE_0213	MODIFIED AGRO VEHICLE	MECHANICAL ENGINEERING	BE	Mr. NAVEENA KUMAR R. R.	Mr. MAHESH R	8000.00
3.	42S_BE_0218	IOT BASED INTELLIGENT PUBLIC TRANSPORT SYSTEM FOR SMART CITIES USING IMAGE PROCESSING TECHNIQUES	ELECTRONICS AND COMMUNICATION ENGINEERING	BE	Dr. K V MAHENDRA PRASHANTH	Mr. NAGASHEKAR A	6000.00
4.	42S_BE_0233	INVESTIGATIONS ON THE INFLUENCE OF NANO FILLERS ON TRIBOLOGICAL BEHAVIOURS OF ARECA FIBER REINFORCED WITH HYBRID COMPOSITES FOR AUTOMATIVE APPLICATIONS	MECHANICAL ENGINEERING	BE	Dr. SANJAY KUMAR S M	Mr. NAVEEN KUMAR R	8000.00
5.	42S_BE_0236	HYDROGEOLOGICAL STUDIES AND REMOTE SENSING TECHNIQUES IN MAPPING GROUNDWATER POTENTIAL ZONES	CIVIL ENGINEERING	BE	Dr. MANJUNATH	Ms. NISHA G SINGH	4000.00
6.	42S_BE_0238	UTILIZATION OF C AND DWASTES IN RIGID PAVEMENT WITH CARBON ABSORBING PEOPERTY	CIVIL ENGINEERING	BE	Mr. SACHIN B V	Mr. VISHNU MOWDGALAYA B M	4500.00

#### Note:

- 1. The sanctioned amount will be sent by KSCST to the College by crossed Cheque in the name of the Principal.
- 2. The evaluation of above projects will be conducted in the Nodal Centre in the month of May / June 2019. During nodal centre evaluation projects will be selected for state level Seminar & Exhibition which will be conducted in the month of July / August 2019.
- 3. After completion of the projects, the hard copy of the report and soft in .pdf format needs to be sent to KSCST without fail.

Accounts May opto

SJB Institute of Technology **BGS Health & Education City** No. 67, Uttarahalli Road, Kengeri Bangalore South - 560 060

### Visvesvaraya Technological University

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

Dr. Satish Annigere Registrar (I/c)	Phone: (0831) 2405468 Fax: (0831) 2405467			
Ref: VTU/Aca./A-4/2019-20/ 2465/19	Date:			
To.	1 1 JUL 2019			

To, The Principal, SJB Institute of Technology, Bengaluru.

SPEED POST

Sir,

Sub: Sanction of Financial Assistance for 2018-19 to the selected projects of UG student's reg ....
Ref: No.VTU/BGM/Aca.OS/Gen-Cir/2018-19/10716,dt. 02.03.2019

With reference to the above subject, please find herewith a D.D Bearing No 640560, dated 03.07.2019 of Rs. 60,000/- towards the sanction of Financial Assistance to the selected projects of UG students.

Kindly acknowledge the receipt of the same.

Encl: as above.

par. Rav.

Yours faithfully,

Ru

Registrar (I/c) VTU, Belagavi

Av. 817



||Jai Sri Gurudev|| % SRI ADICHUNCHANAGIRI SHIKSHANA TRUST (R)



### **JB Institute of Technology**

(Affiliated to Visvesvaraya Technological University, Belagavi, and Approved by AICTE - New Delhi and Accredited by NAAC - New Delhi with 'A' Grade, CGPA-3.22)

No 67, BGS Health & Education City, Dr. Vishnuvardhan Road, Kengeri, Bengaluru - 560 060

Ph : 080 - 2861 2445 / 6 Fax : 080 - 2861 2651

E-mail : principal@sjbit.edu.in Web: www.sjbit.edu.in

Ref : SJBIT/ADM 1016/2018 -19

Date: 21-03-2019

**To,** The Registrar, VTU, Jnana Sangama, Belagavi-590018

Respected Sir,

Sub: Financial Assistance for innovative projects of final year Undergraduate students for the year 2018-19

Ref: VTU/BGM/Aca-OS/Gen-Cir/2018-19/10716, Dated, 02<sup>nd</sup> March'2019.

With reference to the above cited subject, as per the guidelines from the University the top two deserving projects (in each branch) are selected based on the committee recommendation. Total 12 deserving Projects from six departments are recommending to Financial Assistance for innovative projects of Undergraduate final year 2018-19.

So please consider and do the needful.

Thanking you,

Principal Principal SJB Institute of Technoio # 67, BGS Health & Education + Dr. Vishnuvardhan Road, Keng Bengaluru - 560 060

Encl: (a) List of recommending Projects

(b) Affiliation notification issued by VTU for 2018-19.

(c) Proceeding of the Committee for selection of projects.



## Visvesvaraya Technological University

"Jnana Sangama", Belagavi – 590 018, Karnataka State

Registrar (I/c) Ref: VTU/Aca./A-4/2019-20/ 2-465/19	Phone: (0831) 2405468 Fax: (0831) 2405467
To, The Principal,	Date: 1 1 JUL 2019
SJB Institute of Technology, Bengaluru,	SPEED POST

Sir,

Sub: Sanction of Financial Assistance for 2018-19 to the selected projects of UG student's reg .... Ref: No.VTU/BGM/Aca.OS/Gen-Cir/2018-19/10716,dt. 02.03.2019

With reference to the above subject, please find herewith a D.D Bearing No 640560, dated 03.07.2019 of Rs. 60,000/- towards the sanction of Financial Assistance to the selected projects of UG students.

Kindly acknowledge the receipt of the same.

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Encl: as above.

rar. Rav. 24-7-19 Ska for need but

Yours faithfully,

Biniz,

Registrar (I/c) VTU, Belagavi

BV\_817

### ||Jai Sri Gurudev|| Sri Adichunchanagiri Shikshana Trust (R) SJB INSTITUTE OF TECHNOLOGY

(Affiliated to Visvesvaraya Technological University, Belgavi & Approved by AICTE, New Delhi) No. 67, BGS Health & Education City, Dr. Vishnuvardhan Road, Kengeri, Bengaluru-560060. Web: www.sjbit.edu.in, Email: principal@sjbit.edu.in, Phone: 080-28612445/46, Fax: 080-28612651

Date: 21/03/2019

With reference to the circular by VTU/BGM/Aca-OS/Gen-Cir/2018-19/10716, dated, 2<sup>nd</sup> March'2019. List of deserving Projects recommend to financial Assistance for innovative projects of final year Undergraduate students for the year 2018-19.

SI. No	Branch		Title of the Project	Name of the students	USN	Name of Guide	Remarks
1	Electrical &	1	Design of a system to detect hazardous gases in vehicle and alerting a user	Navya H Sushma M Prateeksha Sindhu R	1JB15EE023 1JB15EE035 1JB15EE028 1JB15EE032	Mrs. Prarthana JV	
	Electronics Engineering	2	Hybrid Power system with the design of efficient wind turbine and solar tracking	Puttaraju V Ragu M T Yashwanth N Bharatha Y	1JB16EE419 1JB16EE420 1JB16EE432 1JB15EE005	Mr. Dwarakanath S K	
	Electronics &	1	Automated students attendance Management system for classrooms	Sindhu R Poojashree L R Umawaroop T Raghu M S	1JB15EC103 1JB15EC070 1JB15EC110 1JB15EC082	Mr. Bhaskar B	
2		2	Moving object detection in video using convolutional neural networks	Vineeth V S Shubham Sharma Vivek Chandra B S Nisha Sridhar	1JB15EC115 1JB15EC102 1JB15EC109 1JB15EC065	Mr. Supreeth H S G	
3	Computer Science &	1	Emergency Vehicle Traffic Control	Jeet banerjee Jitendra kumar Poorva singh Adarsh GOYAL	1JB15CS063 1JB15CS064 1JB15CS108 1JB15CS189	Mrs. Archana R A	
5	Engineering	2	Intelligent approaches for plant supervision (IAPS)	Rishabh rathod Riya singh Shreya baranwal s m Sohaib alam	1JB15CS139 1JB15CS140 1JB15CS160 1JB15CS144	Dr. Ajay Prakash BV	

4		1	Arduino based industrial appliances control system by decoding dual tone multi frequency signals on GSM/CDMA network	Aditya kumar Sandarbh Bhardwaj Vibhav Jain Vikash Gaurav	1JB15IS005 1JB15IS096 1JB15IS120 1JB15IS129	Mrs. Yamuna U
Engineering	2	Smart parking using Internet of Thing	Anuradha G Bhavana L S Bindushree H A Deeksha B Jadesh	1JB15IS023 1JB15IS030 1JB15IS031 1JB15IS037	Mr. Darshan K R	
5	Mechanical	1	Design and Development of stair climbing wheel chair	Yatin S Srivatsa Nadiger Monoj kumar M M Siddarth S Motagi	1JB15ME108 1JB15ME096 1JB15ME052 1JB15ME094	Dr. T Madhusudhan
	Engineering	2	Design and Fabrication of Cloth drying Machine	Bharath C S Karthik Gowda C Mohan H M Pavan Gowda S	1JB16ME401 1JB16ME414 1JB16ME425 1JB16ME428	Mr. Adarsh B C
		1	Eco- Concrete for sustainability: Utalizing incinerated ash and iron slag as partial replacement materials	Sushma H Akash Rakshitha C P Vijay Kumar Yalagod	1JB15CV098 1JB15CV006 1JB16CV429 1JB16CV434	Mr. Ramesh.BM
6	6 Civil Engineering	2	Utilization of recycled aggregate in pavement quality Concrete with Self Healing Property	Aishwarya S Prajwal Amir Rasool Sumanth M	1JB15CV004 1JB15CV059 1JB15CV113 1JB16CV433	Mr. Puneeth.HC

Principal

Principal Principal SJB Institute of Technology # 67, BGS Health & Education City, Dr. Vishnuvardhan Road, Kengeri, Bengaluru - 560 060 Page 2 of 2

# Academic Year 2017-18

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# SJBIT

Sl.No.	Name of the research project/ endowment	Name of the Principal Investigator/Co- investigator	Department of Principal Investigator	Year of Award	Amount Sanctioned	Duration of the project	Name of the Funding Agency	Type (Government/non- Government)	
1	Studies on Decentralized Treatment for Vrushabhavathi Valley Waste water.	Dr. Prasad CSMV	CIVIL	2018	30.00	3 Year	VGST	Govt	
2	Design development and performance evaluation of a sealed bean D skinner prototype	Dr. K V MahendraPrashanth	ECE	2018	5.2	2 Years	GKVK	Govt	
3	Ganakananda- English translation, critical analysis and comparison with other Indian Astronomical Tables	Dr. Padmaja Venugopal	MAT	2016	4.67539	2 Year	Indian National Science Academy ( INSA) New Delhi.	Govt	
4	The inhibition effect of heterocyclic compounds on the electrochemical behaviour of steel in acidic media	Dr. Banuprakash G	CHE	2017	30.00	3 Year	VGST	Govt	
	<b>SJBIT</b>								

5	Entrepreneurship Awareness Camp	Dr. Mallikarjuna Swamy	ECE	2017	0.4	1 Year	MSME Govt. of India New Delhi	Govt
6	Live data Streaming system for social media to address civic issues using big data technology.	Mohan Kumar K N	CSE	2018	0.05	6 Months	KSCST	Govt
7	Integrated studies of Hydrological Investigation and Remote sensing Techniques in groundwater assessment	H Narendra Kumar	CIVIL	2018	0.045	6 Months	KSCST	Govt
8	Geo- Morphic and Geo chemical studies in assessment & management of Water resources using Remote sensing & GIS	H Narendra Kumar	CIVIL	2018	0.045	6 Months	KSCST	Govt
9	Utilization of Recycled fine aggregates (C & D Waste) in Rigid Payments with waste polypropylene fibers property.	Puneeth H C	CIVIL	2018	0.05	6 Months	KSCST	Govt
10	Design and Fabrication of Areca-Nut Tree Climbing, Plucking, and Spraying Machine	Sanjay B S	MECH	2018	0.1	6 months	KSCST	Govt
11	Design and Fabrication of Organic Waste Shredding Machine	Dr.Madhusudhan T	MECH	2018	0.085	6 months	KSCST	Govt





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12	Protection on the Go- A wearable Device to Curb Child Abuse	Dr. Krishna A N	CSE	2018	0.05	6 Months	VTU	Govt
13	An Analysis of Pose estimation over LiDAR generated point cloud data	Dr. Srikantaiah K C	CSE	2018	0.05	6 Months	VTU	Govt
14	Automated Car with distance sensor using Raspberry Pi	Mrs. Pavitra Bai S	ISE	2018	0.05	6 Months	VTU	Govt
15	Arduino GPS Tracking system	Mr. Ranjith J	ISE	2018	0.05	6 Months	VTU	Govt
16	Desgin and implementation of an intelligent system for military Application	Dr. K R Nataraj	ECE	2018	0.05	6 Months	VTU	Govt
17	Implementation of Automatic face and License plate recognition for safety measures	Dr. D N Chandrappa	ECE	2018	0.05	6 Months	VTU	Govt

SJBIT

18	Characteristic Strength of self curing concrete using steel fibers	Nisarg Shankar	CIVIL	2017	0.05	6 Months	VTU	Govt
19	An experimental study partial replacement of Egg shell powder and coconut coir in concrete.	Arpitha Gowda S L	CIVIL	2018	0.05	6 Months	VTU	Govt
20	Design and Fabrication of Manually Operated Car Shelter	Mrs.Chaitra .B.K	MECH	2017	0.05	6 months	VTU	Govt
21	Design and fabrication of Grape desteming and crushing machine	Mr. Gangadhar T G	MECH	2018	0.05	6 months	VTU	Govt
		S	JB	ΙΤ				





# **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, VGST.

NO/VGST/CPC/2015-16/2019-20/5シン

Date:25-11-2019

To, The Principal, SJB Institute of Technology, No.67,BGS Health & Education City, Uttarahalli Main Road, Kengeri, Bengalur-560060.

Dear Sir,

Sub: Change of Programme Co-ordinator. Ref: Review meeting held on dt:22-12-2018, GRD no-469, under the Scheme CISEE (2015-16).

As you are aware that, for the change of programme Coordinator, the Committee meeting of Vision Group on Science and Technology (VGST) was held and the proposed (New) Programme Coordinator of your institute presented the project work before the Committee.

The Committee reviewed the presentation and offered their remarks which is binding on the part of the proposed Programme Co-ordinator and the Institution. The remarks offered by the Committee is conveyed to you as follows.

The Committee approved the change of Programme Co-ordinator. Hence, the proposed Coordinator Dr.Prasad.C.S.M.V, Department of Civil Engineering, is the new Programme Coordinator to work on the project to complete it.

Hoo, cioti 509 Thanking you, Yours sincerely angal

(Consultant)

Copy to: Dr.C.S.M.V.Prasad, Dept.of Civil Engineering, Institute of Technology, No.67, BGS Health and Education City, Uttarahalli Main Road, Kengeri, Bengaluru-560060.



ಕರ್ನಾಟಕ ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ಪ್ರೋತ್ಸಾಹಕ ಸೊಸೈಟಿ ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ಇಲಾಖೆ, ಕರ್ನಾಟಕ ಸರ್ಕಾರ 'ವಿಜ್ಞಾನ ಭವನ' ನಂ: 24/2, 3ನೇ ಮಹಡಿ, 21ನೇ ಮುಖ್ಯ ರಸ್ತೆ, ಬನಶಂಕರಿ 2ನೇ ಹಂತ, ಬೆಂಗಳೂರು - 560 070

ದೂರವಾಣಿ/ಫ್ಯಾಕ್ಸ್ : 080 – 26711166/ 26711160; ಇ-ಮೇಲ್ : ksteps.dst@gmail.com

ಡಾ. ಹೆಚ್. ಹೊನ್ನೇಗೌಡ ವ್ಯವಸ್ಥಾಪಕ ನಿರ್ದೇಶಕರು, ಕೆಸ್ಟೆಪ್ಸ್ ನಂ. ಕೆಸ್ಟೆಪ್ಸ್/ವಿತಂದಾಸ/03/CISEE/2015-16

ದಿನಾಂಕ: 15-06-2016

ಮಾನ್ಯರೇ

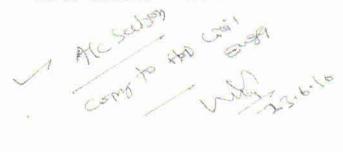
ವಿಷಯ: 2015–16ನೇ ಸಾಅನ ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ದಾರ್ಶನಿಕ ಸಮೂಹದ CISEE ಯೋಜನೆಯಡಿಯಲ್ಲ ಅನುದಾನ ಜಡುಗಡೆ ಮಾಡುವ ಬಗ್ಗೆ.

ಉಲ್ಲೇಖ: ವಿಯಇ 86 ವಿತ್ರಮ 2016, ದಿ. 17.05.2016

ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ಇಲಾಖೆಯು, ಖ್ಯಾತ ವಿಜ್ಞಾನಿ ಭಾರತರತ್ನ ಪ್ರೊಫೆಸರ್ ಸಿ.ಎನ್.ಆರ್. ರಾವ್, F.R.S. ರವರ ಅಧ್ಯಕ್ಷತೆಯಲ್ಲ ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ದಾರ್ಶನಿಕ ಸಮೂಹವನ್ನು 2008ರಲ್ಲ ಸ್ಥಾಪಿಸಿದ್ದು, ಈ ಯೋಜನೆಯಡಿ ಹಲವಾರು ವೈಜ್ಞಾನಿಕ ಕಾರ್ಯಕ್ರಮಗಳನ್ನು ಕಳೆದ 8 ವರ್ಷಗಳಂದ ರಾಜ್ಯಾದ್ಯಂತ ಯಶಸ್ವಿಯಾಗಿ ಅನುಷ್ಠಾನಗೊಳಸಿಕೊಂಡು ಬರುತ್ತಿರುವುದು ಸರಿಯಷ್ಯೆ. 2015–16ನೇ ಸಾಅನಲ್ಲ ತಮ್ಮ ಸಂಸ್ಥೆಯಿಂದ ಸಲ್ಲಸಿದ ಪ್ರಸ್ತಾವನೆಯಾದ "Studies on Decentralized Treatment for Vrushabhavathi Valley Wastewater" ನ್ನು ವಿ.ಜಿ.ಎಸ್.ಟ. ಯ ಪ್ರಮುಖ ಕಾರ್ಯಕ್ರಮವಾದ <u>Center of Innovative Science & Engineering Education (CISEE)</u> ನ ಯೋಜನೆಯಡಿಯಲ್ಲ ದಾರ್ಶನಿಕ ಸಮೂಹವು ಆಯ್ಕೆ ಮಾಡಿ, ಸರ್ಕಾರ ಆದೇಶ ನೀಡಿರುವುದು ತಮಗೆ ತಿಳಿದ ವಿಷಯವಾಗಿದೆ.

ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ಇಲಾಖೆಯ ಅಂಗ ಸಂಸ್ಥೆಯಾದ ಕರ್ನಾಟಕ ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ಪ್ರೋತ್ಸಾಹಕ ಸೊಸೈಟ (ಕೆಸ್ಟೆಪ್ಸ್)ಯನ್ನು ಪ್ರಸ್ತುತ ವರ್ಷದಿಂದ ದಾರ್ಶನಿಕ ಸಮೂಹದ ಕಾರ್ಯಕ್ರಮಗಳ ಉಷ್ಣುತಾರಿ ಸಂಸ್ಥೆಯಾಗಿ ನೇಮಿಸಲಾಗಿದೆ. ಆದುದರಿಂದ, ತಮ್ಮ ಸಂಸ್ಥೆಯಿಂದ ಆಯ್ಕೆಗೊಂಡ ಪ್ರಸ್ತಾವನೆಗೆ ಮೊದಲ ಕಂತಾಗಿ ರೂ. 10.00 ಲಕ್ಷಗಳ ಅನುದಾನವನ್ನು The Principal, S.J.B. Institute of Technology, Kengeri, Bangalore ಹೆಸರಿನಲ್ಲ ಚೆಕ್ಕನ್ನು (ಚೆಕ್ ಸಂಖ್ಯೆ: 942482, ದಿ:15.06.2016) ನೀಡಲಾಗುತ್ತಿದೆ. ಚೆಕ್ ಸ್ಟೀಕರಿಸಿದ ನಂತರ, ಸ್ಟೀಕೃತ ರಶೀದಿ (Acknowledgement) ಯನ್ನು ಕೆಸ್ಟೆಪ್ಸ್ ಗೆ ಕಳುಹಿಸುವುದು.

ಸದರಿ ಅನುದಾನವನ್ನು ಉದ್ದೇಶಿತ ಯೋಜನೆಗೆ ಮಾತ್ರ ಬಳಸಿಕೊಳ್ಳುವುದು ಹಾಗೂ ಎಲ್ಲಾ ವೆಚ್ಚಗಳನ್ನು ಕರ್ನಾಟಕ ಸಾರ್ವಜನಿಕ ಸಂಗ್ರಹಣೆಯಲ್ಲ ಪಾರದರ್ಶಕತೆ ಅಧಿನಿಯಮ, 1999 (Karnataka Transparency in Public Procurements Act, 1999 - http://finance.kar.nic.in/index.htm) ಅನುಸಾರ ಹಾಗೂ ದಾರ್ಶನಿಕ ಸಮೂಹ ಅನುಮೋದಿಸಿರುವ ವಿವಿಧ ಶೀರ್ಷಿಕೆಗಳಗೆ ಅನುಗುಣವಾಗಿ





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ಯೋಜನೆಯನ್ನು ಅನುಷ್ಠಾನಗೊಳಸುವುದು. ಐಡುಗಡೆಯಾದ ಅನುದಾನವನ್ನು ಬಳಸಿಕೊಂಡ ನಂತರ ಎಲ್ಲಾ ವೆಚ್ಚಗಳನ್ನು ನೋಂದಾಯಿತ ಆಡಿಟರ್ ಮೂಲಕ ಆಡಿಟ್ ಮಾಡಿಸಿ, ಉಪಯೋಗತಾ ಪ್ರಮಾಣ ಪತ್ರವನ್ನು ದ್ವಿಪ್ರತಿಯಲ್ಲ ಈ ಪತ್ರದೊಂದಿಗೆ ಲಗತ್ತಿಸಿರುವ ಸ್ವರೂಪದಲ್ಲ (Format) ಕೆಸ್ಟೆಪ್ಸ್ ಸಂಸ್ಥೆಯ ಮೇಲ್ಕಂಡ ವಿಳಾಸಕ್ಕೆ ಕಳುಹಿಸಿಕೊಡುವುದು. ಈ ಯೋಜನೆಗೆ ಸಂಬಂಧ ಪಟ್ಟ ಎಲ್ಲಾ ಲೆಕ್ಕ ಪತ್ರಗಳನ್ನು ಸಂರಕ್ಷಿಸಿಡುವುದು ಹಾಗೂ ಮಹಾಲೇಖಪಾಲಕರು ಮತ್ತು ಸರ್ಕಾರವು ಸಮೀಕ್ಷೆಗಾಗಿ ಕೋರಿದಲ್ಲ ತಪ್ಪದೇ ಒದಗಿಸುವುದು. ಈ ಯೋಜನೆಗೆ ಅನುಗುಣವಾಗಿ ಪ್ರತ್ಯೇಕ ದಾಖಲೆ ಪುಸ್ತಕ ಸಹ ನಿರ್ವಹಿಸಬೇಕೆಂದು ಕೋರುತ್ತೇನೆ.

ಹೆಚ್ಚಿನ ಮಾಹಿತಿಗಾಗಿ ಶ್ರೀಮತಿ ಶ್ರೀರಂಜಿನಿ. ಕೆ. ವೈಜ್ಞಾನಿಕ ಕ್ಷೇತ್ರಾಧಿಕಾರಿ, ಕರ್ನಾಟಕ ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ಪ್ರೋತ್ಸಾಹಕ ಸೊಸೈಟಿ (ಕೆಸ್ಟೆಪ್ಸ್) (ದೂರವಾಣಿ: ೦৪೦–26711166; ಇ–ಮೇಲ್: srivgst.ksteps@gmail.com) ಇವರನ್ನು ಸಂಪರ್ಕಿಸಬಹುದು.

ವಂದನೆಗಳೊಂದಿಗೆ,

ತಮ್ಮ ವಿಶ್ವಾಸಿ ವಸ್ಥಾಪಕ (ನಿರ್ದೇಶಕರು)

ಇವರಿಗೆ,

The Principal, Sri Adichunchanagiri Shikshana Trust (SJBIT), No.67, BGS Health & Education City, Dr. Vishnuvardhan Road, Kengeri, Bangalore – 560 060

ಪ್ರತಿ: Dr. H.K. Ramaraju, Programme Co-ordinator, Dept. of Civil Engineering, Sri Adichunchanagiri Shikshana Trust (SJBIT), No.67, BGS Health & Education City, Dr. Vishnuvardhan Road, Kengeri, Bangalore – 560 060



# ಕೃಷಿ ವಿಶ್ವವಿದ್ಯಾನಿಲಯ, ಬೆಂಗಳೂರು UNIVERSITY OF AGRICULTURAL SCIENCES, BANGALORE

B.A. ANAND M.E (Ele). (PhD) Assistant Professor, Electrical Engg. Email Id : lovanand1586@gmail.com Department of Agricultural Engineering G.K.V.K. Bangalore - 560 065 Mobile : 09480306217

NO. Ag. Engg. 2019-201558

2020 13

### <u>CERTIFICATE</u>

This is to certify that **Dr. K.V. Mahendra Prashanth**, Head of the Department, Department of Electronics and Communication Engineering, S.J.B. Institute of Technology, BGS Health and Education City, Uttarahalli Road, Bangalore is working has an **Co-Principal Investigator** for the following projects, which is funded by Directorate of Research, University of Agricultural Sciences, Bangalore.

S1.	Project Title	Project Outlay	Year of
No.		[Rs.] in lakhs	Sanction
1.	Design, Development and		
	Performance Evaluation of a field bean Deskinner Prototype	5.20	2017-18
2.	Solar Powered GPS BasedTracker with Automated Reckoning of Livestock and Agricultural Equipments	1.55	2018-19

13/03/2 Principal Investigator

Dr. B.A. ANAND. Ph.D. (Ele) Principal Investigation Dept. of Agricultural Engineering UAS-B, G.K.V.K. Campus, Bangalore-65

Encl.

1. Director of Research Order No. DR/VTDP/2017-18 Dated 20.07.2017 2. Director of Research Order No. DR/VTDP/6899/2018-19 Dated 29.11.2018

Head

Dept. of Electronics & Communication Eng SJB Institute of Technology Bengaluru-560060



SJB Institute of Technology BGS Health & Education City No. 67, Uttarahalli Road, Kengeri Bangalore South - 560 060

### UNIVERSITY OF AGRICULTURAL SCIENCES, BENGALURU

Directorate of Research GKVK, Bengaluru - 560 065 Date: 20.07.2017

### No. DR/VTDP/2017-18

NOTE:-

Sub:- Research Project Proposal "Design, development and performance evaluation of a field bean De-skinner prototype" under Varietal & Technology Development and Value addition grants - reg.

Ref: Approval of the Vice Chancellor, UAS, GKVK dated:15.07.2017

The project proposal entitled "Design, development and performance evaluation of a field bean De-skinner prototype" (AB. A/c. 6819) under Varietal & Technology Development and Value addition grants was examined and following is the budget allocation for the above cited project proposal.

Sl. No.	Particulars	2017-18	2018-19	s. in lakhs Total
1.	Manpower	0.90	1.20	2.10
2.	Contingency	2.00	1.00	3.00
3.	Travel grants	0.05	0.05	0.10
	Total	2.95	2.25	5.20

Budget provision for 2018-19 is tentative and subject to availability of grants. The Comptroller, UAS(B) has already issued office order for release of 50% budget for 2017-18 (Copy enclosed). Remaining 50% of the budget will be released during November 2017 based on the performance and progress of research and subject to submission of half yearly progress report. Further, PI is hereby informed to provide detailed financial breakup (except SI.No.1&3, only for contingency) to comptroller through Director of Research to obtain revised / re-appropriated office order under the following DAC numbers.

DAC - 263 - Purchase of Stationery DAC - 361 - Farm Inputs

DAC - 544 - Contract Labor

The following terms and conditions shall be followed by the PI while implementing the project:

- 1. The PI will submit detailed plan of action upon the receipt of the Office order.
- Project should not be a part of AICRP programmes/ any other Adhoc projects operated in the University.
- 3. This project should not have been funded or repeated under any other financial source.
- The project should be operated independently and in any case there shall not be provision for any kind of fellowships / scholarships.
- 5. If project is a part of the PG studies, the name and ID number of the student concerned needs to be provided.

### Guidelines:

- 1. No provision for NRC, POL and Purchase of Equipments.
- 2. Stationery restricted to Five thousand per year only.
- 3. Photo copies of all the claimed bills should be maintained for audit purpose.
- 4. Maintenance of following records is mandatory:
  - a. Manpower recruitment and payment records
  - b. Receipt and expenditure register
  - c. Day Book of Receipts (DBR) and Day Book of Issues (DBI)
  - d. Experimental register containing all the technical details of the experiments concerned to the project and experimental observations indicating all the parameters.
  - e. Other auditable records
- The results should be presented in Annual Technical Meet of the respective discipline and the copy of the proceedings should be submitted for having presented the same.
- 6. The monitoring team constituted by the Directorate of Research, UAS, GKVK will visit once in a quarter and submit a detailed report to the Director of Research for subsequent release of funds.

DIRECTOR OF RESEARCH DIRECTOR OF RESEARCH University of Agri. Sciences JKVK, BANGALORE - 560 065

To:

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Mr. B.A. Anand Assistant Professor Dept. of Agril. Engineering UAS, GKVK, Bengaluru

Dr. B.A. ANAND, Ph.D. (Ele) Principal Investigation Degra and Engineering UAC appls, Bangdoordf

# ಕೃಷ್ಠಿ ವಿಶ್ವವಿದ್ಯಾನಿಲಯ, ಬೆಂಗಳೂರು

ಸಂಶೋಧನಾ ನಿರ್ದೇಶಕರ ಕಛೇರಿ, ಗಾ.ಕೃ.ವಿ.ಕೆ, ಬೆಂಗಳೂರು - 560 065. ದಿನಾಂಕ:29.11.2018

ಸಂಖ್ಯೆ: ಸಂ.ನಿ/ಮು.ವೈ.ಅ./6899/2018-19

ಟಿಶ್ರಣ:

ವಿಷಯ: 2018–19ನೇ ಸಾಲಿನಲ್ಲಿ ತಳಿ ಮತ್ತು ತಾಂತ್ರಿಕತೆ ಅಭಿವೃದ್ಧಿ ಹಾಗೂ ಮೌಲ್ಯವರ್ಧನೆ ಕಾರ್ಯಯೋಜನೆಯಡಿಯಲ್ಲಿ ತಮ್ಮ ಸಂಶೋಧನಾ ಯೋಜನೆಗೆ ಅನುದಾನ ಒದಗಿಸುವ ಕುರಿತು. ಉಲ್ಲೇಖ: ಸಂಖ್ಯೆ: ಹ.ನಿ.ಕ/ಬಿ&ಆರ್/6899/2018-19 ದಿನಾಂಕ: 24.11.2018 

ತಳಿ ಮತ್ತು ತಾಂತ್ರಿಕತೆ ಅಭಿವೃಧ್ಧಿ ಹಾಗೂ ಮೌಲ್ಯವರ್ಧನೆ ಕಾರ್ಯಯೋಜನೆಯಡಿಯಲ್ಲಿ ತಮ್ಮ ಸಂಶೋಧನಾ ಯೋಜನೆಗೆ – "Solar powered GPS based tracker with automated reckoning of livestock and agricultural equipments" 2018-19ನೇ ಸಾಲಿಗೆ ಲೆಕ್ಕ ಶೀರ್ಷಿಕೆ 6899 ಅಡಿಯಲ್ಲಿ ರೂ.1,50,000/- ಗಳನ್ನು (ಒಂದು ಲಕ್ಷದ ಐವತ್ತು ಸಾವಿರ ರೂಗಳು ಮಾತ್ರ) ಒದಗಿಸಲಾಗಿದೆ.

ಯೋಜನೆಯ ವಿವಿಧ ಉದ್ದೇಶಗಳಿಗನುಸಾರವಾಗಿ ಉಪ ಶೀರ್ಷಿಕೆ (DAC) ಗಳು ಲಭ್ಯವಿದ್ದು ಇವುಗಳ-ಸಂಖ್ಯೆಯನ್ನು ನಮೂದಿಸಿ ಯೋಜನೆಗೆ ಅನುದಾನದ ಮೊತ್ತವನ್ನು ಹಂಚಿಕೆ ಮಾಡಲು ಹಣಕಾಸು ನಿಯಂತ್ರಣಾಧಿಕಾರಿಗಳಿಗೆ ಸಂಶೋಧನಾ ನಿರ್ದೇಶಕರ ಮುಖಾಂತರ 10.12.2018ರೊಳಗೆ ಕೋರಿಕೆಯನ್ನು ಕನ್ನಡದಲ್ಲಿ ಸಲ್ಲಿಸತಕ್ಕದ್ದು.

ನಿಬಂದನೆ / ಷನತ್ತುಗಳು

- 🗸 ಯೋಜನೆಯ ಪುಸ್ತಾವನೆಗೆ ಮಂಜೂರಾದ ಅನುದಾನವು ಪುಸ್ತುತ ಹಣಕಾಸಿನ ವರ್ಷಕ್ಕಷ್ಠೆ ಅನ್ವಯಿಸುವುದು (ಒಂದು ವರ್ಷಕ್ಕೆ ಮಾತ್ರ)
- 🗸 ವಿಸ್ತ್ರತವಾದ ಕ್ರಿಯಾ ಯೋಜನೆಯನ್ನು ಯೋಜನೆ ಅನುಷ್ಠಾನಗೊಳಿಸುವ ಮುನ್ನ ಜರೂರಾಗಿ ಸಂಶೋಧನಾ ನಿರ್ದೇಶನಾಲಯಕ್ಕೆ
- √ ಸದರಿ ಯೋಜನೆಯ ರೂಮರೇಷೆಗಳು, ತಾಂತ್ರಿಕತೆ ಕಾರ್ಯಕ್ರಮ/ವಿವರಗಳು ಇನ್ಯಾವುದೇ ಇತರೆ ಯೋಜನೆ (AICRPs/Adhoc projects) ಗಳಲ್ಲಿ ಒಳಗೊಂಡು ಮನಾರವರ್ತಿತವಾಗಿರಬಾರದು.
- √ ಯಾವುದೇ ಮೂಲಗಳಿಂದ ಸದರಿ ಯೋಜನೆಗೆ ಹಣಕಾಸಿನ ನೆರವು ದೊರಕಿರಬಾರದು/ ಪ್ರಾಯೋಜಿತವಾಗಿರಬಾರದು.
- 🗸 ಸದರಿ ಯೋಜನೆಯ ಅನುದಾನವು ಯಾವುದೇ ವಿಧ್ಯಾರ್ಥಿವೇತನ / ಶಿಷ್ಯವೇತನಕ್ಕೆ ಬಳಸಬಾರದು ಹಾಗೂ ಯೋಜನೆಯು ಸೃತಂತ್ರವಾಗಿ ಪ್ರಧಾನ ಸಂಶೋಧಕರಿಂದ ನಿರ್ವಹಿಸತಕ್ಕದ್ದು
- √ ಸ್ನಾತಕೋತ್ತರ ವಿಧ್ಯಾರ್ಥಿಗಳ ಅಧ್ಯಯನಕ್ಕೆ ಯೋಜನೆಯ ತಾಂತ್ರಿಕ ಕಾರ್ಯಕ್ರಮ ಅಳವಡಿಸಿದ್ದೆ ಆದಲ್ಲಿ ಸಂಬಂಧಪಟ್ಟ ವಿಧ್ಯಾರ್ಥಿಯ ಹೆಸರು ಹಾಗೂ ಗುರುತಿನ ಸಂಖ್ಯೆಯನ್ನು ಒದಗಿಸತಕ್ಕದ್ದು.
- ✓ ಯೋಜನೆಯಲ್ಲಿ ಉಪಕರಣಗಳು/ ಯಂತ್ರೋಪಕರಣಗಳು/ ಮನರಾವರ್ತಿತವಲ್ಲದ ಸಾದಿಲ್ವಾರು/ ವಾಹನ ಇಂಧನ (POL) ಸಂಬಂಧಿತ ವಸ್ತುಗಳನ್ನು ಖರೀದಿಸಲು ಅನುದಾನವನ್ನು ಬಳಸಲು ಅವಕಾಶವಿರುವುದಿಲ್ಲ.
- ✔ ಲೇಖನ ಸಾಮಗ್ರಿಗಳನ್ನು ಖರೀದಿಸಲು ವಾರ್ಷಿಕ ರೂ.5000/- ಗಳಿಗೆ ಮಾತ್ರ ಸೀಮಿತ.
- √ ಪ್ರಯಾಣ ಭತ್ಯೆ ವಾರ್ಷಿಕ ರೂ.5000/− ಗಳಿಗೆ ಮಾತ್ರ ಸೀಮಿತ.

ಮ.ತಿ.ನೋ.....

### Guidelines:

- 1. No provision for NRC, POL and Purchase of Equipments.
- 2. Stationery restricted to Five thousand per year only.
- 3. Photo copies of all the claimed bills should be maintained for audit purpose.
- 4. Maintenance of following records is mandatory:
  - a. Manpower recruitment and payment records
  - b. Receipt and expenditure register
  - c. Day Book of Receipts (DBR) and Day Book of Issues (DBI)
  - d. Experimental register containing all the technical details of the experiments concerned to the project and experimental observations indicating all the parameters.
  - e. Other auditable records
- 5. The results should be presented in Annual Technical Meet of the respective discipline and the copy of the proceedings should be submitted for having presented the same.
- 6. The monitoring team constituted by the Directorate of Research, UAS, GKVK will visit once in a quarter and submit a detailed report to the Director of Research for subsequent release of funds.

DIRECTOR OF RESEARCH DIRECTOR OF RESEARCH University of Agri. Sciences KVK, BANGALORE - 560 065 SFO

To:

Mr. B.A. Anand

Assistant Professor

Dept. of Agril. Engineering UAS, GKVK, Bengaluru

Head Dept. of Electronics & Communication Eng SJB Institute of Technology Bengaluru-560060



SJB Institute of Technology BGS Health & Education City No. 67, Uttarahalli Road, Kengeri Bangalore South - 560 060

D. (Ele) Dest mooring UAC gras, Battalaie 65

पंजीकृत पत्र Registered Letter



Madhvendra Narayan Asstt. Exec. Director (History of Science) 
 INDIAN NATIONAL SCIENCE ACADEMY

 Bahadur Shah Zafar Marg, New Delhi - 110 002

 ☎ : 23221931 - 23221950 (EPABX); Fax : 91-11 

 23231095,23235648

 ☜ : ijhs@insa.nic.in

Ref : "Gamakānanda – English exposition, a critical analysis and comparison with other Indian astronomical tables"

Dear Dr. Venugopal,

I am pleased to inform you that the above mentioned project has been recommended by the Indian National Commission for History of Science at its meeting held on 13<sup>th</sup> April, 2016 for **one year**, subject to submission of satisfactory annual progress report. The exact recommendations for the financial year 2016-17 are as follows :

Recommended with the facilities of One Research Assistant @ Rs.10,000/- p.m. and Contingency & Travel of Rs. 60000/ p.a.

It was suggested to limit the duration of the project to 2 years only with exact English translation instead of exposition.

If you accept the recommendation, kindly send us your letter of acceptance and a "No Objection Certificate" (NOC) from the Head of the Organization which is agreeable to operate the project fund on behalf of INSA. On receipt of your letter of acceptance and the NOC we shall be able to issue the sanction letter of the project to you with a copy to the Head of the host organization for information and necessary action.

With kind regards,

Yours sincerely,

No. HS/RC/ 203

18<sup>th</sup> May, 2016

honoroum (Madhvendra Narayan)

Dr. Padmaja Venugopal Professor & Head Department of mathematics SJB Inst. Of Technology, Kengeri Bangalore 560060.

Dr. Padmaja Venugopal, Ph.D. Professor and Head Department of Mathematics S.J.B. Institute of Technology # 67, BGS Health & Education City, Uttarahalli Road, Kengeri, Bangalore-60.



SJB Institute of Technology # 67, BGS Health & Education City, Dr. Vishnuvardhan doad, -Kengeri, Bengaiuru - 500 060.

### पजीकृत पत्र Registered Letter



Madhvendra Narayan Asstt. Exec. Director (History of Science) INDIAN NATIONAL SCIENCE ACADEMY Bahadur Shah Zafar Marg, New Delhi - 110 002 富: 23221931 - 23221950 (EPABX); Fax: 91-11-23231095,23235648 ふ: ijhs@insa.nic.in No. RC/ ムムイ

Ref : "Ganakānanda – English exposition, a critical analysis and comparison w other Indian astronomical tables"

Dear Dr. Venugopal,

I am pleased to inform you that the above mentioned project has been renewed by the Indian National Commission for History of Science at the meeting of 13<sup>th</sup> April, 2017 for the year 2017-18.

The recommendations are as follows :

Project renewed up to 31.03.2018 with the facilities of one Research Assistant @ Rs.14,000/- p.m. and Contingency & Travel of Rs. 60,000/- p.a.

We shall be happy to receive the bill for the period **April to September**, 2017 along with a statement of expenditure/Audit Report (Utilization Certificate) for the period ending March 2017 in the enclosed proforma.

With regards,

Yours sincerely,

29<sup>11</sup> MAY, 2017

mara Narayan (Madhvendra

Dr. Padmaja Venugopal Professor & Head Department of mathematics SJB Institute of Technology, Kengeri Bangalore 560060.

CC : 1.The Principal, SJB Institute of Technology, Uttarahalli Road, Kengeri,

Bangalore 560060.

2. DED (Fin./Admn.)

3. Office Copy

Dr. Padmaja Venugopal, Ph.D Professor and Head Department of Mathematics S.J.B. Institute of Technology # 67, BGS Health & Education City, Uttarahalli Road, Kengeri, Bangalore-60.

Tec Bengaluru

SJB Institute of Technology # 67, BGS Health & Education City, Dr. Vishnuvardhan Road, Kengeri, Bengaluru - 560 060.

### <u>Statement of Expenditure</u> (To be submitted in Duplicate)

Title of the Project :

Analysis & Comparison with other Indian Astronor. Tables

Name of the Investigator and the address of the Institution : Dr. Padmaja Venugapal S. J.B. Institute of Technology Bas Health Education city campus, Uttarahalli Main k Kangeri, Bangalore - 60

Honorarium/Fellowship	Grant	Grant		
	Sanction			Linenont
1. Honorarium/Fellowship		Grant	Spent	Unspent
	75,6001-			
2. Contingency*	97.000/-	97,000/-	28,106/-	-
		175,6001-	28,106/-	
		1 3100 1		
			1	
Total :				

Signature of Research Fellow

Signature of

Investigator

Signature of Authorities from SJB Institute of technology BGS Health & Education City Market Road Kengeri Seals South 550 060.

### UTILIZATION CERTIFICATE :

Dr. Padmaja Venugopal, Ph.D Professor and Head Department of Mathematics S.J.B. Institute of Technology # 67, BGS Health & Education City, Uttarahalti Road, Kengeri, Bangalore-60.



SBymatinee of the Muthopity BOBHILE (Histersity/ohnstitute No. 67, Uttarahalli Road, Kengeri Bangalere South - 560 060.



Principal SJB Institute of Technology Poster, BGS Health & Education City, Dr Wissol Surdhan Road, Okengeri, Bengaluru - 560 060.

### Statement of Expenditure (To be submitted in Duplicate)

Title of the Project :

Ganakananda - English Translation, a Critical Analysis & Comparison with other Indian Astronomical tables

Name of the Investigator and the address of the Institution : Dr. Padmaja Venupopal S.J.B. Institute of Technology, BGS Health & Education City Campus, Utosahalli Main Rd Kengeri, Bangalore -60

			0	
Honorarium/Fellowship	Grant	Grant .		
	Sanction			
1. Honorarium/Fellowship	84,000/	Grant	Spent	Unspent
		received	1,14,000/-	-
2. Contingency*	30,000/-	1,14,000/-	2,0001-	
			111 000/-	
			1,16,000/-	
		· .		
Total :	1, 14,000/	-		
1.0				
Xh Sti			1.1	x

Signature of Research Fellow

Signature of Investigator

Signature of Authorities;faom SJB Mastiluniversity/fology BGS MastiluneEducation City No. 67, Uterahalli Read Kenged Bangalaje South - 550 060,

### UTILIZATION CERTIFICATE :

This is to certify that the grant of Rs. 1.16.000/out of total grant of Rs. 1...14.002/... received for the project from the Academy for the year 20.17.18. has been fully utilized for the purpose for which it was sanctioned. The audited statement of expenditure will be furnished in due course.

1100

Dr. Padmaja Venugopal, Ph.D Professor and Head Department of Mathematics S.J.B. Institute of Technology # 67, BGS Health & Education City, Uttarahalli Road, Kengeri, Bangalore-60.

Signatore of the puthority from the laiver its institute BGS Health & Education City

No. 67, Uttarahalli Read Ken Bangalore South - 550 05 Princip

SJB Institute of Dechnology # 67, BGS Health & Education City, Dr. Vishnuvardhan Road, Kengeri, Bengaluru - 560 060.

### <u>Statement of Expenditure</u> (To be submitted in Duplicate)

Title of the Project :

Ganakananda. English Translation, a. Critical Analysis & Comparison with other Indian Astronomical Tables

Name of the Investigator and the address of the Institution :

Institution			. 1541	1		
Honora	ium/Fellowship	Grant Sanction	Grant	Spent	Unspent	
1. Hono	rarium/Fellowship	50,400/-	Grant received			
2. Cont	ingency*	18,000/-	50,400/- + 18,000/-	10,400 119,100	-	
Tot	al :		68,4001-	69,4001-		J

Signature of Research Fellow Signature of Investigator

Signature of Authorities from The University/ Institute Principal Dr. Badmaia Venugopa Sea bebanhienter Electrevatics No SJB. Institute of Technology # 67, BGS Health & Education City. URARISTIPROLA, Kengeli Bangalore CO.

# UTILIZATION CERTIFICATE :

This is to certify that the grant of Rs. 69,400/- received for the project from the out of total grant of Rs. 68,490/- received for the project from the Academy for the year 8017-18... has been fully utilized for the purpose for which it was sanctioned. The audited statement of expenditure will be furnished in due course.

Dr. Padmaja Venugopal, Ph.D. Professor and Head Department of Mathematics S.J.B. Institute of Technology # 67, BGS Health & Education City, Uttarahalli Road, Kengeri, Bangalore-60.



Signature of the authority from the University/ Institute

Dr. Padmaja Venugopal, Phy. Frotevsor and Head Department of Atthematics S J Unit at a filtechnology # 67, BCS theads & Eonca Print pall Uttarabalit Roy Britishite of Technology # 67, BGS Health & Education City, Dr. Vishnuvardhan Road, Kengeri, Bengaluru - 560 060.

### Statement of Expenditure (To be submitted in Duplicate)

Title of the Project :

Ganakananda-English Translation.....

Name of the Investigator and the address of the of Institution : Dr.PadmajaVenugopal S.J.B. Institute of Technology.....

		Crant	Spent	Unspent
Honorarium/Fellowship	Grant	Grant	Opent	
	Sanction	received	(-) Rs.14000	
1. Honorarium/Fellowship				
			(-) Rs.5000	
2. Contingency*				
				1
				*
			(-) Rs.19000	
Total :				

'of Signature **Research Fellow** 

Signature of

Investigator

Signatute of Authorities from Dr. Athe Universityt.K Institute of Technology BGS Health & Education City No.67, UtSeahalli Road, Kengeri, Bengaluru -560060 www.sjbit.edu.in

### UTILIZATION CERTIFICATE :

This is to certify that the grant of Rs.19000/- ..... out of total grant of (-) <u>Rs.19000/-</u> received for the project from the Academy for the year <u>2018-19</u>has been fully utilized for the purpose for which it was sanctioned. The audited statement of expenditure will be furnished in due course.

Dr. Padmaja Vénugopal, PhD Professor and Head Department of Mathematics S J B. Institute of Technology # 67, BGS Health & Education City, Uttarahalli Road, Kengeri, Bangalore-60.

Signature of the authority from the University/ Institute Dr. Ajai Chandran C.K Princinal SJB Institute of Technology BGS Health & Education City No.67, Uttarahalli Roady Kenderi Bengajuru 560060 of Technology www.shift.odd.hin & Education City, Dr. Vishnevardhan Road, Kengeri, Bengaluru - 560 060.





Karnataka Science and Technology Promotion Society (KSTeP Dept. of Information Technology, Bio Technology and Science & Technology, GoK "Vijnana Bhavana", 3<sup>rd</sup> Floor, #24/2, 21<sup>st</sup> Main Road, Banashankari 2<sup>nd</sup> Stage, Bangalore-7( Ph/fax: 080-26711166, E-mail: ksteps.dst@gmail.com

Dr. H. Honne Gowda Special Director (Technical), Dept. of IT, BT and \$&T/ Managing Director, KSTePS

# No. KSTEPS/VGST-CISEE/2017 270

Date: 21.11.2017

Dear Sir,

Sub.: Intimation of selection of the project under the VGST scheme of CISEE - reg.

# Greetings from the Dept. of Information Technology, Biotechnology and Science & Technology!!

We are pleased to inform you that the project titled "The Inhibition Effect of Heterocyclic compounds on the Electrochemical behavior of Steel in Acidic Media" submitted under the VGST scheme of CISEE for the financial year 2016-'17 has been approved by the Government based on the recommendations of Vision Group on Science and Technology under the Chairmanship of Prof. CNR Rao, Honorary President, JNCASR.

The total project grant award for a period of 3 years is Rs. 30.00 lakhs, which will be released annually @ Rs. 10.00 lakhs based on the progress of work. Your requested to take an immediate action to initiate the project at the earliest and to be completed within 3 years after receiving the cheque of 1<sup>st</sup> installment from our office.

The grant will be paid to the Head of the Institution, under whose supervision the 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 in soft copy (word & pdf) once in 6 months without any fail. The grants shall be used only for the purposes described in the grant application by following due procedures of KTPP Act. Any deviation from the scheduled plan must have a prior approval from the VGST. A sample copy of the Utilization Certificate is enclosed for information and necessary action in the future.

Future releases of grants will be based on satisfactory project performance. The funding agency has the right to terminate the project if it is found to be not

Dr. Blandfrokas 24/11/17

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satisfactorily pursuing and fulfilling the stated project goals and objectives. Any unspent balance must be returned back to the funding agency within 60 days following the conclusion of the project. Any publications or other dissemination arising from research supported by VGST grants should be acknowledged.

Dr. S. G. Sreekanteswara Swamy, Consultant, VGST will be the nodal officer for all future correspondences related to the project. His contact details are given below:

Vision Group on Science and Technology Dept. of IT, BT and S&T, Karnataka Government Secretariat, Room No. 702, 7<sup>th</sup> Floor, 4<sup>th</sup> Gate, M.S. Building, Dr. Ambedkar Veedhi, Bangalore – 560001.

Phone : 080-2203 2013 Email : <u>visiongroup.st@gmail.com</u> Website : <u>www.vgst.in</u>

I want to personally thank you for being selected as one of the VGST program members and we wish you and the Principal Investigator a great success in the implementation of the project.

Thanking you

CC:

Yours sincerely.

(H. Honne Gowda)

To, The Principal SJB Institute of Technology BGS Health & Education City Dr. Vishnuvardhana Road, Bangalore-560 060.

Dr. Banuprakash G, Program Coordinator, Dept. of Chemistry, SJB Institute of Technology, BGS Health & Education City, Dr. Vishnuvardhana Road, Bangalore-560 060.



Karnataka Science and Technology Promotion Society (KSTeP Dept. of Information Technology, Bio Technology and Science & Technology, GoK "Vijnana Bhavana", 3<sup>rd</sup> Floor, #24/2, 21<sup>st</sup> Main Road, Banashankari 2<sup>nd</sup> Stage, Bangalore-7<sup>th</sup> Ph/fax : 080-26711166, E-mail : ksteps.dst@gmail.com

Dr. H. Honne Gowda Special Director (Technical), Dept. of IT, BT and S&T/ Managing Director, KSTePS

## No. KSTePS/VGST-CISEE/2017 270

Date: 21.11.2017

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1

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Dr. Bharofrakase 24/11/17

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satisfactorily pursuing and fulfilling the stated project goals and objectives. Any unspent balance must be returned back to the funding agency within 60 days following the conclusion of the project. Any publications or other dissemination arising from research supported by VGST grants should be acknowledged.

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Vision Group on Science and Technology Dept. of IT, BT and S&T, Karnataka Government Secretariat, Room No. 702, 7<sup>th</sup> Floor, 4<sup>th</sup> Gate, M.S. Building, Dr. Ambedkar Veedhi, Bangalore – 560001.

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I want to personally thank you for being selected as one of the VGST program members and we wish you and the Principal Investigator a great success in the implementation of the project.

Thanking you

Yours sincerely,

(H. Honne Gowda)

To,

CC:

The Principal SJB Institute of Technology BGS Health & Education City Dr. Vishnuvardhana Road, Bangalore-560 060.

Dr. Banuprakash G, Program Coordinator, Dept, of Chemistry, SJB Institute of Technology, BGS Health & Education City, Dr. Vishnuvardhana Road, Bangalore-560 060.



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ಆಗಾರಿಕ್ ಟಿಕ್ಟಾನ ಪ್ರಾಚ್ಚಾನ ಪಾಡ್ರಾ ತಂತ್ರಜ್ಞಾನ ಹೊಂತ್ರಜ್ಞಾನ ಇಲಾಗ. ಕರ್ನಾಟಕ ಮಾಹಿತಿ ತಂತ್ರಜ್ಞಾನ, ವೈನಿಕ ತಂತ್ರಜ್ಞಾನ ಹಾಗೂ ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ಇಲಾಗ. ಕರ್ನಾಟಕ ವರ್ಷನ 'ವಿಜ್ಞಾನ ಭವನ' ನಂ: 24/2, ಡನೇ ಮಹಡಿ, 21ನೇ ಮುಖ್ಯ ರಸ್ತೆ, ಐನೆಲೆಂಕರಿ 2ನೇ ಪಂತ, ಖೆಂಗಳೂರು-೮೯೦ ೧೯೦ ದೂರವಾಣಿ/ಫ್ಯಾಕ್ಸ್: 080-26711166 / 26711160 ಇ-ಮೇಲ್: ksteps.dst@gmail.com

ಡಾ. ಹೆಚ್. ಹೊನ್ನೇಗೌಡ ವ್ಯವಸ್ಥಾಪಕ ನಿರ್ದೇಶಕರು, ಕೆಸ್ಟೆಪ್ಸ್

ನಂ. ಕೆಸ್ಟೆಪ್ಸ್/ವಿತಂದಾಸ/CISEE/2016-17/GRD-532/2017-18/149 / ೨೦3/ ದಿನಾಂಕ: 21.12.2017 ಮಾನ್ಯರೇ,

ವಿಷಯ: 2016–17ನೇ ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ದಾರ್ಶನಿಕ ಸಮೂಹದ CISEE ಯೋಜನೆಯಡಿಯಲ್ಲ ಮೊದಲನೇ ಕಂತಿನ ಅನುದಾನ ಬಡುಗಡೆ ಮಾಡುವುದರ ಬಗ್ಗೆ.

ಉಲ್ಲೇಖ: 1) ವಿಯಇ 259 ವಿತ್ರಮ 2017 ದಿ. 31.10.2017

2) No. KSTePS/VGST- CISEE/2017, Date: 21.11.2017

ಮೆಲ್ಲಾಂಡ ವಿಷಯ ಮತ್ತು ಉಲ್ಲೇಖಗಳಿಗೆ ಸಂಬಂಧಿಸಿದಂತೆ, 2016–17ನೇ ಸಾಅನಲ್ಲಿ ತಮ್ಮ ಸಂಸ್ಥೆಯಿಂದ ಸಲ್ಲಸಿದ ಪ್ರಸ್ತಾವನೆಯಾದ "The Inhibition Effect of Heterocyclic compounds on the Electrochemical behavior of Steel in Acidic Media" ನ್ನು ವಿತಂದಾಸದ ಪ್ರಮುಖ ಕಾರ್ಯಕ್ರಮವಾದ <u>Centres of Innovative Science and Engineering Education (CISEE)</u> ನ ಯೋಜನೆಯಡಿಯಲ್ಲ ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ದಾರ್ಶನಿಕ ಸಮೂಹವು ಆಯ್ಕೆ ಮಾಡಿದ್ದು, ಅದರಂತೆ ಆದೇಶ ನೀಡಿರುವುದು ಸರಿಯಷ್ಠೆ.

常常就能就能放

ಈ ಸಂಬಂಧ, ವಿತಂದಾಸದ CISEE ಯೋಜನೆಯಡಿ ಆಯ್ಕೆಯಾದ ತಮ್ಮ ಸಂಸ್ಥೆಗೆ ಮೊದಲನೇ ಕಂತಾಗಿ ರೂ. ಮಾಡಲು ದಿನಾಂಕ: 10.00 ಲಕ್ಷಗಳ ಅನುದಾನವನ್ನು ಚಿಡುಗಡೆ 21.12.2017 ರಂದು Principal, SJBIT, Bengaluru ಹೆಸರಿನಲ್ಲ ಚೆಕ್ (ಸಂ.359857) ಬರೆದು, ಸದರಿ ಚೆಕ್ತನ್ನು ಈ ಪತ್ರದೊಂದಿಗೆ ಸ್ಟೇಕರಿಸಿದ ಚೆಕ್ ಕಳುಹಿಸಿಕೊಡಲಾಗಿದೆ. ಮುಂದುವರಿದು, ನಂತರ ಲಗತ್ತಿಸಿ ಸ್ಟೇಕೃತಿ ರಶೀದಿ (Acknowledgement) ಯನ್ನು ಕೆಸ್ಟೆಪ್ಸ್ ಗೆ ಕಳುಹಿಸುವುದು ಹಾಗೂ ಸದರಿ ಅನುದಾನವನ್ನು ಯಾವುದಾದರು ರಾಷ್ಟ್ರೀಕೃತ ಬ್ಯಾಂಕ್'ಗಳಲ್ಲ ಉಳತಾಯ ಖಾತೆಯಲ್ಲಟ್ಟು (Saving Bank Account) ಅಗತ್ಯಕ್ಕನುಗಣವಾಗಿ ಅನುದಾನವನ್ನು ಬಳಸುವಂತೆ ಕೋರಲಾಗಿದೆ.

ಸದರಿ ಅನುದಾನವನ್ನು ಉದ್ದೇಶಿತ ಯೋಜನೆಗೆ ಮಾತ್ರ ಬಳಸಿಕೊಳ್ಳುವುದು ಹಾಗೂ ಎಲ್ಲಾ ವೆಚ್ಚಗಳನ್ನು ಕರ್ನಾಟಕ ಸಾರ್ವಜನಿಕ ಸಂಗ್ರಹಣೆಯಲ್ಲ ಪಾರದರ್ಶಕತೆ ಅಧಿನಿಯಮ, 1999ರ (Karnataka Transparency in Public Procurements Act, 1999 - http://finance.kar.nic.in/index.htm) ಅನುಸಾರ ಹಾಗೂ ದಾರ್ಶನಿಕ ಸಮೂಹ ಅನುಮೋದಿಸಿರುವ ವಿವಿಧ ಶೀರ್ಷಿಕೆಗಳಗೆ ಅನುಗುಣವಾಗಿ ಯೋಜನೆಯನ್ನು ಅನುಷ್ಠಾನಗೊಳಸುವುದು.

....2

ಕ್ಷೂನ ಮಾಹಿತಲಾಗಿ ಡಾಗಿ ಎಲ್. ಅ. ಕ್ಷೀತಂಡೇಶ್ವರ ಸ್ವಾಮಿ ನಮಾಲೋಶಕರು, ವಿಶ್ವಾಸ ಮತ್ತು ಹಂತಹ್ವಾನ ವಾರ್ಶರ್ ಸಮೂಹ ಬದರನ್ನು ಸಂಪರ್ಕಿಸುವಪುರು ದೂರವಾಣಿ ಸಂಸ್ಥೆ 080- 2203203 ಇ-ಮಾಲ್ visiongroup.st@gmail.com

HODEM MODEL

ತದ್ದು ವಿಶ್ವಾಸಿ, ವ್ಯವಸ್ಥಾಪಕ ನಿರ್ದೇಶಕರು

### hotes:

Principal SIB Institute of Technology BGS Health & Education City Department of Chemisty Dr. Vishnuvardhana road Bangalore- 560 060

(454: 1) Dr. Banuprakash G. Department of Chemisty, SIB Institute of Technology BGS Health & Education City, Bangalore- 560 060

2) ಡಾಗಿ ಎಸ್. ಜ. ಶ್ರೀಕಂಕೇಶ್ವರ ಸ್ಥಾಮಿ, ಸಮಾಲೋಚಕರು, ವಿಶ್ವಾನ ಮತ್ತು ತಂತ್ರಷ್ಟಾನ ರಾಶ೯೩ಕ ಸಮೂಪ, ಗಗೇ ಮಹಡಿ, 4ನೇ ಹಂತ, ಐಪುಮಹಡಿ ಕಟ್ಟಡ, ಬೆಂಗಳೂರು- 560 ೦೦1



 Dr. BANUPRIKIKSHIG, Kasama Mak Asarahan Kasama Anal Department of contrology
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5.18 Institute of Technology BGS Health & Education City In: 67, Uttaraballi Road, Kengeri Bangalore South - 560 C.



VENUGOPAL BHAT & CO.

### UTILIZATION CERTIFICATE

Program Name: VG31/GRD-532

project Title: "The Inhibition Effect of Heterocyclic Compounds on the Electrochemical publicious of Steel in Acidic Media".

191	Details	Amount
No.		and the second second second second
1 Tre	vious year Balance (Opening Balance)	1411
2 Gra	ints Reserved (Cheque No. 359857 dated: 21/12/2017)	10,00,000.00
	ik Intereti	27,891.00
å	Total Available Grants (1+2+3)	10,27,391.00
5	Actual Grants Utilized	10,06,980.00
	(Statement of Expenditure Enclosed)	
6	Unspent Balance (4-5)	20,911.00

Certified that Rs 10,00,000 00/- of grant-in-aid under VGST/GRD-532 was released by Karnataka Science and Technology Promotion Society (KSTePS) in favor of Sri Adichunchanagiri Shikshana Trust Vide letter No VGST/GRD-532/2016-17 as stated above during the year 2016-17. The above grant was sanctioned towards " The Inhibition Effect of Heterocyclic Compounds on the Electrochemical Behaviour of Steel in Acidic Media". Out of sanctioned grants, a sum of Rs. 10,06,980.00/-, (-6,980.00/-) has been utilized for the purpose of which it was sanctioned and Rs. 20,911.00/-remained unutilized at end if 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 see that the money was actually utilized for the purpose for which it was sanctioned.

Dr. BANUP IS RHYHIS, M.S. M.Fm. Fm.D. Programme, Co-ordinator Departwith seal) emistry S J B Institute of Technology Dr. Vishnuverdhan Road, Kengeri, Bengaluru - S60 060

Signature Head of the Institution (with seal)Ei & Institute of Technolog) & Health & Education City / Zharahan Roso Kengen FOR VENU GOPAL BHAT & CO, Chartered Accountants

> VENU GOPAL BHAT PROPRIETOR M.No.203150 Place: Bangalore Date: 15th Mar 2019

# MF 2/1, Zisa Main, SFHS Layout, BTM 2nd Stage, Bannerghatta Road, Bangalore - 560 076 Pts. D80-26682292 • Mobile : 94480 62692 • E-mail - cavenubhat@gmail.com

Dr. BANUPKAKASH G, M.Sc. M.Phil, Ph.D Associate Professor, Department of Chemistry S J B Institute of Technology Dr. Vishnuvardhan Road, Kengeri, Bengaluru - 560 060

Incipal

SJB Institute of Technology BGS Health & Education City No. 67, Uttarahalli Road, Kengeri



VENUGOPAL BHAT & CO.

CHARTERED ACCOUNTANTS

Statement of Expenditure for the Project "The Inhibition Effect of Heterocyclic Compounds on the Electrochemical Behaviour of Steel in Acidic Media".

SI, No.	Particulars	Total Expenses (Rs.)
1.	Total Grants Received (including OB and Bank Interest)	10 27 891 00
Recurri	Expenditure Break up (Each Item wise as approved a	nd sanctioned of Non-
Necuri	and Recurring equipment	
	Non-Recurring (NRE)	
a.	lce Flaker	1 40 000 00
b.	Rotary Evaporator and Vacuum Pump	1,40,000.00
С.	UV Visible Spectrophotometer	3,65,000.00
A.	Total of Non-Recurring Expenditure	3,97,000.00
	Recurring Expenditure (RE)	9,02,000.00
8.	Consumables and Contingency	
Β.	Total of Recurring Expenditure	1,04,980.00
2.	Total Expenditure (A+B)	1,04,980.00
3.	Unspent Balance (1-2)	10,05,980.00
August and August and August		20,911.00

Kind of check exercised:

- 1. Vouching
- 2. Bank reconciliation
- 3. Supporting bills

### Certificate

Certified that we have verified the disbursement of Rs. 10,00,000.00 (Ten Lakh Rupees only/-) towards as mentioned above.

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

Dr PAnit Signature Signature

5 ) B Institute of Technology Dr Vishnuvaroi.on 2007 - Rengeri. Bengalum - 560 000

Signature Head of the Institution (with Seal) D Institute of Tect

close

FOR VENU GOPAL BHAT & CO,

VENU GOPAL BHAT PROPRIETOR M.No.203150 Place: Bangalore Date: 15th Mar 2019

# WF 2.1, 2: EFM3H99FHS/Layout, BIM 2nd Stage, Bannerghatta Road, Bangalore 560.016 Pri: Dela 16682292 • Mobile 94450.62692 • Ent all cavenuohiat agmail.cam

0 0600

Dr. BANUPRAKASH G, M.S.C. M.Phil, Ph.D. Associate Professor, Department of Chemistry S J B Institute of Technology Dr. Vishnuvardhan Road, Kengeri, Bengaluru - 560 060

ncipal

BGS Health & Education C No. 67, Uttarahaili Road, Ken Bangalore South - 560 060 II Jai Sri Gurudev II

SRI ADICHUNCHANAGIRI SHIKSHANA TRUST (\*\*)

SJB Institute of Technology

(Affiliated to Visvesvaraya Technological University, Belagavi and Approved by AICTE and Accredited by NAAC with 'A' Grade, CGPA-3.22 - New Delhi )

#67, BGS Health & Education City, Dr. Vishnuvardhan Road, Kengeri, Bengaluru - 560060.

Ph : 080 - 28612445 / 6 Fax: 080 - 2861 2651

Email : principal@sjbit.edu.in Website : www.sjbit.edu.in

Ref: SJBIT/ ADM 90 3021-22

25.05.2022

To. The Managing Director, KSTePS, Banashankari 2<sup>nd</sup> Stage, Bangalore - 5600070.

### **NEFT/RTGS DETAILS FOR THE REFUND /UNSPENT AMOUNT TO** KSTePS

- 1. GRD No- 532
- 2. Sanctioned year: 2017-18
- 3. Amount to be transfer for which Instalment (I/II/III): I
- 4. Name of the Principal Investigator and department: Dr.Banuprakash G, Dept. of Chemistry
- 5. Contact Number: 9742988988
- 6. Scheme: CISEE
- 7. Institution Details: SJB Institute of Technology
- 8. Account Number of the transferor: 2890101005357
- 9. Name of the Bank, branch & IFSC Code: Canara Bank, BGS Health & Education City Branch & IFSC: CNRB0002890
- 10. UTR No: P144220170873611

11.Amount and date: 23,451/- Date: 24.05.22 (Interest and Unspent)

Signature and Address of Dr. MANNIRA dKAGIO O; dinatari, Ph.D Sociate, Professor, Chemistry S J B Institute of Technology Dr. Vishnuvardhan Road, Kengeri, Bengaluru - 560 060



25.5.200

Signature of the Head of Institution with Seal and date rincipă SJB Institute of Technology **BGS Health & Education City** No. 67, Uttarahalli Road, Kengeri Bangalore South - 560 060

Signature of the Bank with Seal and date

Dr. BAN SH G, M.Sc. M.Phil, Ph.D Associate Professor. Department of Chemistry S J B Institute of Technology Dr. Vishnuvardhan Road, Kengeri, Bengaluru - 560 060

कते केनग बेंक / For S Health & Education Ci 69, jutarahalli Road, Kong BGS Health and Knowledge Chy Erl Bra Scruth - 560 060

#### STATEMENT OF ACCOUNT

2890-BANGALORE BGS HEALTH AND KNOWLED 560060

CANARA BANK Account Branch 32:50 AM IFSC MICR

> Account No Product Name Customer ID Customer Name Address

CNRB0002890 560015146

2890101005357 CANARA SB GENERAL 116714583 Messis SJBIT VGST CISEE NO 67 BGS HEALTH AND EDU CITY DR VISHNUVARDHAN ROAD KENGERI BENGALURU KARNATAKA IN 560060

Nominee Reference num : Nominee Name : Account Title : Joint Holder's/Authorised : Person's Name

SJBIT VGST CISEE

Period : Name Currency : Swift code: 03-10-2018 To 26-05-2022 INDIAN RUPEES CNRBINBBBFD

TRANS DATE	VALUE DATE	BRANCH	REF/CHQ.NO	DESCRIPTION	WITHDRAWS	DEPOSIT	BALANCE
03-OCT-18	03-OCT-18	0		B/F	0.00	0.00	0.00
03-OCT-18	03-OCT-18	2890	000000410508	FUNDS TRANSFER FROM SJBIT-VGST GRANT	0.00	1,000,000.00	1,000,000.00
03-OCT-18	03-OCT-18	2890	000000410509	FUNDS TRANSFER FROM SJBIT-VGST GRANT	0.00	26,250.00	1,026,250.00
18-OCT-18	18-OCT-18	1760	000000192062	TO CLG :ASPIRE INC- YES BANK LTD	902,000.00	0.00	124,250.00
29-OCT-18	29-OCT-18	2890	000000192061	BANUPRAKASH G	5,000.00	0.00	119,250.00
31-OCT-18	31-OCT-18	2890		SBINT FOR THE PERIOD FROM01-AUG- 18 TO 31-OCT-18	0.00	1,641.00	120,891.00
14-DEC-18	14-DEC-18	2890	000000192063	BANU PRAKASH G	20,000.00	0.00	100,891.00
27-DEC-18	27-DEC-18	2890		SMS ALERT CHARGES	18.00	0.00	100,873.00
18-JAN-19	18-JAN-19	469	000000192064	TO CLG :ASPIRE INC- YES BANK LTD	60,000.00	0.00	40,873.00
18-JAN-19	18-JAN-19	469	000000192065	TO CLG :ASPIRE INC- YES BANK LTD	15,000.00	0.00	25,873.00
24-JAN-19	24-JAN-19	2890	000000192066	BANU PRAKASH	4,962.00	0.00	20,911.00
31-JAN-19	31-JAN-19	2890		SBINT FOR THE PERIOD FROM01-NOV- 18 TO 31-JAN-19	0.00	868.00	21,779.00
27-MAR-19	27-MAR-19	2890		SMS ALERT CHARGES	18.00	0.00	21,761.00
30-APR-19	30-APR-19	2890		SBINT FOR THE PERIOD FROM01-FEB- 19 TO 30-APR-19	0.00	186.00	21,947.00
31-JUL-19	31-JUL-19	2890		SBINT FOR THE PERIOD FROM01-MAY- 19 TO 31-JUL-19	0.00	194.00	22,141.00
31-OCT-19	31-OCT-19	2890	ininy and provide a conservation of the providence of the providence of the providence of the providence of the	SBINT FOR THE PERIOD FROM01-AUG-	0.00	193.00	22,334.00

DATE: 26-05-22 11:

TRANS DATE	VALUE DATE	BRANCH	REF/CHQ.NO	DESCRIPTION	WITHDRAWS	DEPOSIT	BALANCE
			1	19 TO 31-OCT-19			
31-JAN-20	31-JAN-20	2890		SBINT FOR THE PERIOD FROM01-NOV- 19 TO 31-JAN-20	0.00	183.00	22,517.00
30-APR-20	30-APR-20	2890		SBINT FOR THE PERIOD FROM01-FEB- 20 TO 30-APR-20	0.00	178.00	22,695.00
31-JUL-20	31-JUL-20	2890		SBINT FOR THE PERIOD FROM01-MAY- 20 TO 31-JUL-20	0.00	171.00	22,866.00
31-OCT-20	31-OCT-20	2890		SBINT FOR THE PERIOD FROM01-AUG- 20 TO 31-OCT-20	0.00	168.00	23,034.00
31-JAN-21	31-JAN-21	2890		SBINT FOR THE PERIOD FROM01-NOV- 20 TO 31-JAN-21	0.00	168.00	23,202.00
30-APR-21	30-APR-21	2890		SBINT FOR THE PERIOD FROM01-FEB- 21 TO 30-APR-21	0.00	164.00	23,366.00
31-JUL-21	31-JUL-21	2890		SBINT FOR THE PERIOD FROM01-MAY- 21 TO 31-JUL-21	0.00	171.00	23,537.00
31-OCT-21	31-OCT-21	2890		SBINT FOR THE PERIOD FROM01-AUG- 21 TO 31-OCT-21	0.00	172.00	23,709.00
31-JAN-22	31-JAN-22	2890		SBINT FOR THE PERIOD FROM01-NOV- 21 TO 31-JAN-22	0.00	173.00	23,882.00
03-FEB-22	03-FEB-22	2890		AUS CHANGE IN CORPORATE ACCOUNTS SC FOR CHANGE IN AUTHORIZED SIGNATORIESADDITIO N	295.00	0.00	23,587.00
03-FEB-22	03-FEB-22	2890		AUS CHANGE IN CORPORATE ACCOUNTS SC FOR CHANGE IN AUTHORIZED SIGNATORIESDELETI ON	295.00	0.00	23,292.00
30-APR-22	30-APR-22	2890		SBINT FOR THE PERIOD FROM01-FEB- 22 TO 30-APR-22	0.00	165.00	23,457.00
24-MAY-22	24-MAY-22	2890	000000192068	NEFT DR- P144220170873611- SBIN0040463- MANAGING DIRECTOR KSTEPS-RMTTD BY SJBIT VGST CISEE	23,451.00	0.00	6.00
24-MAY-22	24-MAY-22	2890		NEFT SC	6.00	0.00	0.00

#### Statement Summary :

Opening Balance	Total Debit Amount	Total Credit Amount	Debit Count	Credit Count	Closing Balance	Unclear Balance	Sweep-in
0.00	1,031,045.00	1,031,045.00	12	17	0.00	0.00	Balance 0.00

UNLESS THE CONSTITUENT BRINGS TO THE NOTICE OF THE BANK ANY DISCREPANCIES / OMMISSION/ ERRORS/ UNAUTHORISED DEBITS IMMEDIATELY, THE ENTRIES IN SUCH PASS SHEET SHALL BE DEFINED AS CORDECT AND SHALL BE DEFINED AND CONDUCTION OF THE SHALL BE

THE ENTRIES IN SUCH PASS SHEET SHALL BE DEEMED AS CORRECT AND SHALL BIND THE CONSTITUENT FOR ALL PURPOSE AND INTENTS . BEWARE OF PHISHING ATTACKS THROUGH EMAILS AND FAKE WEBSITES.

IMB FACILITY USERS ARE REQUESTED TO NOTE THAT CANARA BANK DOES NOT SEEK ANY INFORMATION THROUGH EMAIL. DO NOT

J 26.5.2022

Evincipal SJB Institute of Technology BGS Health & Education City No. 67, Utrarahalli Road, Kengeri WHICH HAS COME THROUGH EMAIL FROM UNEXPECTED SOURCES. IT MAY CONTAIN MALIGIOUS CODE OR COULD BE AN ATTEMPT TO "PHISH".

ALWAYS LOGIN THROUGH WWW.CANARABANK.IN . PLEASE BEWARE OF PHISHING, CHANGE IN THE ADDRESS OF ACCOUNT HOLDER/PA HOLDER , IF ANY, MAY PLEASE BE INFORMED TO THE BRANCH ALONG WITH ADDRESS PROOF.

#### "DO NOT SHARE ATM PIN NUMBER, ACCOUNT DETAILS, OTP TO OUTSIDERS, EMAILS ETC"

Fort Glacis
Details of Ombudsman : The Banking Ombudsman
C/o. RBI, 10/3/8
Nrupatunga Road
Bangalore
Bangalore
Tel: 0000 / 0000 Fax:0
E-mail: bobangalore@rbi.org.in
ARE YOU A MERCHANT/ TRADER / RETAILER / SMALL VENDOR , USE DIGITAL PAYMENT CHANNEL TO RECEIVE PAYMENTS FROM
YOUR CUSTOMERS. CONTACT MANAGER FOR MORE DETAILS, GO CASHLESS / CARDLESS.
COMPUTER OUTPUT DOES NOT REQUIRE SIGNATURE.

\*\*\*\*\*\*END OF STATEMENT\*\*\*\*\*

### ||Jai Sri Gurudev|| Sri AdichunchanagiriShikshana Trust®

### SJB Institute of Technology

(Affiliated to VTU, Approved by AICTE, New Delhi, Accredited by NAAC with 'A' Grade) BGS Health and Education City, Dr. Vishnuvardhan Road, Kengeri, Bengaluru-60, Karnataka



### **An Annual Report of Project**

on

## The Inhibition Effect of Heterocyclic Compounds on the Electrochemical Behaviour of Steel in Acidic Media

GRD No. 532

**VGST Scheme: CISEE** 

By

### Dr. BANUPRAKASH G

Project Coordinator Department of Chemistry S J B Institute of Technology BGS Health & Education City, Dr.Vishnuvardhana Road, Kengeri, Bangalore-60

Submitted To



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. AmbedkarVeedhi, Bangalore-560 001

### ANNEXURE – 5

# FINANCIAL STATUS PROFORMA (FSP)

Name of Educational Institution	SJB Institute of Technology			
Name of the Department	CISEE			
Name of the Programme Co-ordinator (PC)	Dr. BANUPRAKASH G			
Project Title	" The Inhibition Effect of Heterocyclic Compounds on the Electrochemical Behaviour of Steel in Acidic Media			
VGST Grant Allocation Year	2016-17			
Date of Completion of Project Work	2018-19			
Allocation	Rs.10,00,000/-			
(Rs. in lakh)	Ten Lakh Rupees only/-			
I	BANK DETAILS			
NAME OF THE BANK& ADDRESS	Canara Bank			
NAME OF THE A/C HOLDER	SJBIT VGST CISEE			
BRANCH & PLACE	BGS HEALTH AND KNOWLED BR			
ACCOUNT NUMBER	2890101005357			
EXPE	ENDITURE DETAILS			
NON RECURRING	9,02,000.00			
RECURRING	1,04,980.00			
FOTAL SPENT	10,06,980.00			
JNSPENT	- 6,980.00			
	27,891.00			

# It is mandatory to open a separate SB A/c for the VGST grants to facilitate & to ascertain the interest accrued and to ease the Audit process.

BALANCE

Dr. BANUPRSignating, M.Sc. M.Phil, Ph.P. Programmint CBL9fellingtor Department of Chemistry S J B Institute of Technology Dr. Vishnuvardhan Road, Kengeri, Bengaluru - 560 060

20,911.00

Signature Head of the Institution (with seal) SJB Institute of Technology BGS Health & Education City No. 67, Uttarahalli Road, Kengeri Bangalore South - 560 060.

Scanned by CamScanner

# केनरा बेंक 📿 Canara Bank

- NAME AND ADDRESS OF BRANCH. Bangalore Bgs Health And Knöwled CANARA BANK Canara Bank No 67, Uttarahalli Road
- alara baik, No 67, Dualanani Koa
- Kengeri BANGALORE

April

KARNATAKA-560060 IPSCC ode: CNRB0002890 MICR Code: 560015146 Tel No 8028612369 Fax No I Email ID cb 2890@cmagabank.com Contact details of Banking Ombudsman The Banking Ombudsman C/o RBL 10/3/8 Nrupatunga Road Bangalore Bangalore 560001 Tal Nrt0000/0000

Fax No 0 Email 1D bobangalore@nh.org m

### ACCOUNT DETAILS: NAME(S)

Occupation Address

Customer ID: 116714583 . A/C Opened On

Mode of Operation:N/A Mobile:91000000000 PAN NO:AAATS3584P Nominee Reg:N Nominee Name: Account No:2890101005357 SJBIT VGST CISEE

NO 67 BGS HEALTH AND EDU CITY, DR VISHNUVARDHAN ROAD KENGERI, BENGALURU-560060-KA-INDIA PIN/ZIP number: 560060

D.O.B : 29-SEP-2018 PB Issue Date:03-OCT-2018 Email: KYC Identifier: PPO No: Nominee RegNo:



Dr. BANUPRAKASH G, M.Sc, M.Phil, Ph.D Associate Professor, Department of Chemistry S J B Institute of Technology Dr. Vishnuvardhan Road, Kengeri, Bengaluru - 560 060

Principal SJB Institute of Technology BGS Health & Education City No. 67, Uttarahalli Road, Kengeri Bangalore South - 560 060.

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(파) 북. 51, NO.	तारीख Date	विवरण Particulars	चेक संख्या Ch No.	निकासी Withdrawals	जमाराशियाँ Deposits	शान Balance	आधाशर Initials
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		Department of Chemi	strv			Principal	
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**VENUGOPAL BHAT & CO.** CHARTERED ACCOUNTANTS

#### Statement of Expenditure for the Project "The Inhibition Effect of Heterocyclic Compounds on the Electrochemical Behaviour of Steel in Acidic Media".

SI. No.	Particulars	Total Expenses (Rs.)
1.	Total Grants Received ( including OB and Bank Interest)	10,27,891.00
Recurrin	Expenditure Break up (Each Item wise as approved a and Recurring equipment	nd sanctioned of Non-
	Non-Recurring (NRE)	
a.	Ice Flaker	1,40,000.00
b.	Rotary Evaporator and Vacuum Pump	3,65,000.00
C.	UV Visible Spectrophotometer	3,97,000.00
Α.	Total of Non-Recurring Expenditure	9,02,000.00
	Recurring Expenditure (RE)	
a.	Consumables and Contingency	1,04,980.00
Β.	Total of Recurring Expenditure	1,04,980.00
2.	Total Expenditure (A+B)	10,06,980.00
3.	Unspent Balance (1-2)	20,911.00

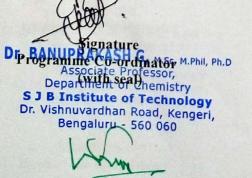
Kind of check exercised:

- 1. Vouching
- 2. Bank reconciliation
- 3. Supporting bills

#### Certificate

Certified that we have verified the disbursement of Rs. 10,00,000.00 (Ten Lakh Rupees only/-) towards as mentioned above.

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



Signature Head of the Institution SJB Inewithes cal) echnology BGS Health & Education City FOR VENU GOPAL BHAT & CO, **Chartered Accountants** 

(100m

**VENU GOPAL BHAT** PROPRIETOR M.No.203150 **Place: Bangalore** Date: 15th Mar 2019

# MFg 261 200 Main SPAS Layout, BTM 2nd Stage, Bannerghatta Road, Bangalore - 560 076 Ph : 080-26682292 • Mobile : 94480 62692 • E-mail : cavenubhat@gmail.com

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**VENUGOPAL BHAT & CO.** 

CHARTERED ACCOUNTANTS

# UTILIZATION CERTIFICATE

#### Program Name: VGST/GRD-532

Project Title: "The Inhibition Effect of Heterocyclic Compounds on the Electrochemical Behaviour of Steel in Acidic Media".

SI. No.	Details	Amount
1	Previous year Balance (Opening Balance )	Niil
2	Grants Received (Cheque No: 359857 dated: 21/12/2017)	Nil
3	Bank Interest	10,00,000.00
4		27,891.00
5	Total Available Grants (1+2+3)	10,27,891.00
	Actual Grants Utilized	10,06,980.00
6	( Statement of Expenditure Enclosed)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
0	Unspent Balance (4-5)	20,911.00

Certified that Rs.10,00,000.00/- of grant-in-aid under VGST/GRD-532 was released by Karnataka Science and Technology Promotion Society (KSTePS) in favor of Sri Adichunchanagiri Shikshana Trust Vide letter No. VGST/GRD-532/2016-17 as stated above during the year 2016-17. The above grant was sanctioned towards " The Inhibition Effect of Heterocyclic Compounds on the Electrochemical Behaviour of Steel in Acidic Media". Out of sanctioned grants, a sum of Rs. 10,06,980.00/-, (-6,980.00/-) has been utilized for the purpose of which it was sanctioned and Rs. 20,911.00/- remained unutilized at end if 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 see that the money was actually utilized for the purpose for which it was sanctioned.

Signature Dr. BARCHARAS Sofordinator, Phil, Ph.D. Dr. C. Assowith seal essor, M.Phil, Ph.D. Department of Chemistry S J B Institute of Technology Dr. Vishnuvardhan Road, Kengevi, Bengaluru - 560.060 engeri, D G.D.

Signature Head of the Institution

(with seal) SJB Institute of Technology BGS Health & Education City No. 67, Uttarahalli Road, Kengeri Bangaloro South 550,000 FOR VENU GOPAL BHAT & CO, Chartered Accountants

VENU GOPAL BHAR PROPRIETOR M.No.203150 Place: Bangalore Date: 15th Mar 2019

# MF 2/1, 2nd Main, SFHS Layout, BTM 2nd Stage, Bannerghatta Road, Bangalore - 560 076 Ph : 080-26682292 • Mobile : 94480 62692 • E-mail : cavenubhat@gmail.com

# PART - C

# **Progress Report**

# (ANNUAL ()) / INTERIM / FINAL)

(Two Copies of the report in soft bound format and CD of the soft copy in PDF format [with signatures of the Head of the institution and Programme Co-ordinator] to be submitted for the office purpose of the project.)

SL	PARTICULARS	DETAILS
1	GRD - NO	532
2	Scheme (Please tick)	CESEM / CISEE (✓) (/ K-FIST- L1/ K-FIST L2/ RGSF
3	• Name of the Programme Coordinator	Dr. BANUPRAKASH G
4	<ul> <li>Name and Address of the Institution.</li> <li>Name of the Department</li> </ul>	Sri Adichunchanagiri Shikshana Trust (R) Department of Chemistry S.J.B.Institute of Technology BGS Health & Education City, Dr.Vishnuvardhana Road, Kengeri, Bangalore-60
5	Instalment Received (tick)	I (🗸 ) / II / III / RGSF
6	Total Amount Released for	Rs. 10,00,000/-
	the Project to date.	(Cheque No 359857, Dated: <b>21-12-2017</b> )
7	Details of collaborating Institution (if any) Please furnish the Details	
8	Time schedule of the VGST	$1^{\text{st}}$ Year $\checkmark$
	Programme	2 <sup>nd</sup> Year
		3 <sup>rd</sup> Year

A Brief summary of the project sanctioned under VGST scheme (Annual (✓) /Interim/Final) experimental setup, methodology, results and applications /IPR if any, of the project? Scope for the further work.

# 1. Introduction

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In examination of short cost, undemanding purifying procedure and high mechanical quality, mellow steel has been generally utilized in different modern things, for example, stockpiling tanks and transport pipelines. Then again, mellow steel has respectably low protection from corrosion in contentious condition. In demanding, hydrochloric corrosive, for instance, is routinely utilized to wash rusts and scales framed on iron surface.<sup>[1,2]</sup> All things considered, persistent consumption and ensuing financial misfortunes are predictable if efficacious insurance can't be given. At present, the uses of coatings and inhibitors are across the board and effective strategies to control consumption.<sup>[3-6]</sup> Then again, the creation of covering is regularly tangled in light of the fact that it might be loaded with non-degradable polymers.<sup>[7,8]</sup> Besides, most coatings are amassed to metal surface artificially, which isn't practical for some uncommon circumstances. Contrasted and coatings, inhibitors can be unswervingly added to different destructive media.

Interminably, chromates acted as excellent inorganic inhibitors by generating an oxide layer for a series of metals including iron, copper, aluminum and zinc.<sup>[9,10]</sup> Those compounds, however, are now prohibited due to haughty toxicity, i.e., nontoxic and eco-friendly alternatives are preferred. Recently, molybdate and rare earth compounds have been experienced as green inorganic inhibitors.<sup>[11,12]</sup> Nevertheless, it seems that more researchers are focusing on organic additives like heterocyclic and Schiff base compounds, most of which are benign to environment and cost-effective.<sup>[13–15]</sup> It was reported that Schiff bases containing an imidogen

group, aromatic rings or heteroatoms can share electrons with Fe atoms and thus can be adsorbed on metal surface to prevent corrosion efficiently.<sup>[16–19]</sup> However, in preceding publications, there are few concerns on the green synthesis of Schiff bases, which calls for renewable reagents, short reaction time, low energy consumption and high cost-effectiveness. As we know, amino acids and vanilline are natural products and are eco-friendly. In addition, they have typical electron-rich structures like benzene ring and heteroatoms (O and N) which benefit the adsorption of organics on mild steel surface. Through a condensation reaction, those functional groups are combined in the synthetic Schiff bases to make them more effective as corrosion inhibitors. Besides, the synthetic route of Schiff base is developed so that it can be completed in a very short time without a heating operation. That can greatly decrease the production cost of new Schiff bases.

In our research, two novel Schiff base compounds, 2-{(E)-[(4-hydroxy-3-methoxyphenyl)methylidene]amino}-3-(1H-imidazol-5-yl)propanoic acid and 2-{(E)-[(4-hydroxy-3-methoxyphenyl)methylidene]amino}-3-(1H-indol-2-

yl)propanoic acid are designed and synthesized for the first time, according to green chemistry principles (**Figure 1**). Two amino acids (L-Arginine and L–Lysine) and vanilline are selected as reagents to generate target compounds. Through this synthetic strategy, the electron-rich groups of benzene ring, amino and imidogen are assembled in the new molecular skeleton. In that way, the good performance of those Schiff base as corrosion inhibitors for mild steel can be expected. To the best of our knowledge, such work has not been reported before.

In this work, we have synthesized two Schiff bases and have evaluated their inhibition efficiencies on the corrosion of mild steel in 0.5 mol·L<sup>-1</sup> HCl solution using electrochemical impedance spectroscopy (EIS), potentiodynamic polarization curves, scanning electron microscope (SEM), atomic force microscopy(AFM) and X-ray photoelectron spectroscopy (XPS) techniques. In addition, theoretical

methods of quantum chemical calculations and molecular dynamic simulations are employed to study the inhibition mechanism of compounds for the acid corrosion of metal.

# 2. Result and Discussion

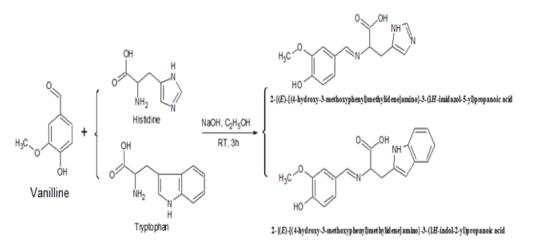


Figure 1. Synthetic route for Schiff base derivatives.

## 2.1 Characterization

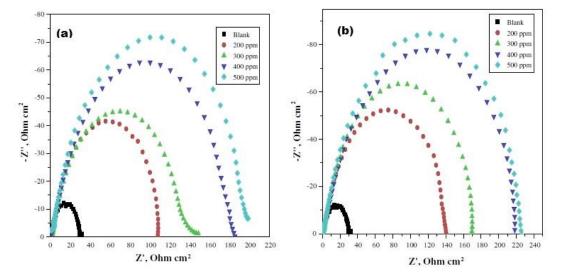
The physical property and structural identification of the synthetic Schiff bases are as follows:

1: yellow powder; yield 92%; purity 97%; mp 173.2–173.9 °C; FT-IR (KBr) cm<sup>-1</sup>: 3431, 3107, 2929, 1615, 1588, 783; 1H-NMR (400 MHz, DMSO-d<sub>6</sub>) δ: 3.21 (d, 2H, –CH<sub>2</sub>–Imidazole), 3.85 (s, 3H, CH<sub>3</sub>–O–), 6.84–7.37 (m,3H, ArH), 7.33 (s, 1H, -CH-Imidazole), 8.47 (s, 1H, CH=N-Imidazole), 8.76 (s, 1H, –CH=N–), 9.52 (d, 1H,Ar–OH), 12.39 (s, 1H, –CO–OH), 13.34 (s, 1H, -NH).

2: yellow powder; yield 91%; purity 98%; mp 168.5–169.3 °C; FT-IR (KBr) cm<sup>-1</sup>: 3358, 3258, 2944, 1677, 1627, 772; 1H-NMR (400 MHz, DMSO-d<sub>6</sub>) δ: 3.86 (s, 3H, CH<sub>3</sub>–O–), 6.99 (q, 2H, ArH-Indole), 6.86–7.39 (m, 3H, ArH), 8.24 (s, 1H, – CH=N–), 9.57 (d, 1H, Ar–OH), 11.38 (s, 1H, -NH-Indole), 12.42 (s, 1H, –CO– OH).

#### 2.2. Electrochemical studies

Electrochemical impedance spectroscopy was employed to investigate the corrosion behavior occurring on steel surface in 0.5 M HCl solution without and with inhibitors from 0.1 mol·L<sup>-1</sup> to 2.0 mmol·L<sup>-1</sup> at 298 K. Figure **2** shows the Nyquist diagrams for the steel electrode immersed in hydrochloric acid in the absence and presence of 1(a) or 2(b). As can be seen in Figure **2**, the depressed semicircles with its center below the real axis suggest a non-ideal electrochemical process at the electrode/electrolyte interface.<sup>[21]</sup> Usually, the irregular loops are regarded as polarization resistance (*R*p) which includes charge transfer resistance, double layer resistance, inhibitor film resistance and accumulation resistance at metal/solution interface.<sup>[22,23]</sup> Compared with the blank solution, the diameters of the plots increase obviously in the presence of Schiff bases, indicating the better inhibitive performance of those compounds at higher concentrations. We can notice that the addition of inhibitors does not change the profile of the Nyquist plots, which means that the inhibitor restrains metallic corrosion by increasing the polarization resistance instead of



**Figure 2.** Nyquist diagrams for the steel electrode immersed in 0.5 mol·L<sup>-1</sup> HCl at 298 K in the absence and presence of 1(a) or 2(b).

Bode and phase angle curves for mild steel in 0.5 mol $\cdot$ L<sup>-1</sup> HCl solution with and without inhibitors are displayed in Figure 3. For Bode formats, the impedance values at low frequency and high frequency stand for polarization resistance and solution resistance, respectively.<sup>[6]</sup> It is clear that the introduction of Schiff base enhances the former and has little impact on the latter. The phase angles in Figure 3 are all less than -90°, which suggests there is not an ideal "capacitor" on metal surface because of its roughness and in homogeneity.<sup>[25]</sup> By comparison with the phase angle measured in blank solution, those measured in the presence of inhibitors move upward to greater values. That is to say, more inhibitor molecules are adsorbed on corroding iron surface and then make it smoother. The single phase peak at the middle frequency indicates that there is only one time constant related to the formation of double layer capacitance. It is shown that, at the same concentration of inhibitors, both the impedance at the low frequency and the phase angle maximum recorded in the 2-containing solution (Figure 3b) are all greater than those recorded in the 1-containing solution (Figure 3a). That distinction represents the better inhibitive ability of HMBA, which may be due to the more compact adsorption layer

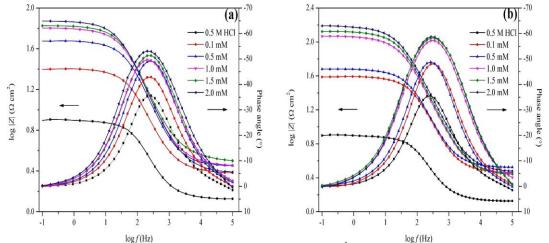


Figure 3. Bode and phase angle curves for mild steel in 0.5 mol·L<sup>-1</sup> HCl solution at 298 K with and without inhibitors: 1(a), 2(b).

inhibitors	Conc. (mmol·L <sup>-1</sup> )	R₅ (Ω·cm²)	Y <sub>0</sub> (μs <sup>n</sup> Ω <sup>-1</sup> cm <sup>-2</sup> )	n	f (Hz)	C <sub>dl</sub> (µFcm <sup>-2</sup> )	R <sub>p</sub> (Ω·cm²)	fit error (chi-squared)	η (%)
blank	0.0	1.35	794	0.83	87.03	271	6.592	2.39 × 10 <sup>-4</sup>	-
1	0.1	1.22	711	0.83	65.65	224	11.52	$2.25 \times 10^{-4}$	42.8
	0.5	1.42	423	0.81	48.89	147	22.48	1.47 × 10 <sup>-4</sup>	70.7
	1.0	1.44	413	0.82	35.90	144	30.31	$1.44 \times 10^{-4}$	78.2
	1.5	1.62	302	0.78	18.46	106	32.45	$2.54 \times 10^{-4}$	79.7
	2.0	1.24	278	0.79	25.96	95	36.46	1.57 × 10 <sup>-4</sup>	81.9
2	0.1	1.46	337	0.84	65.65	127	18.14	1.27 × 10 <sup>-4</sup>	63.7
	0.5	1.69	334	0.84	65.65	126	24.22	$1.26 \times 10^{-4}$	72.8
	1.0	1.41	238	0.81	35.90	86	56.70	8.60 × 10 <sup>-5</sup>	88.4
	1.5	1.38	212	0.82	34.90	79	64.97	7.92 × 10 <sup>-5</sup>	89.9
	2.0	1.50	208	0.81	25.96	78	74.78	7.81 × 10 <sup>-5</sup>	91.2

According to above-mentioned analysis, the impedance data were well fitted by using a Randles equivalent circuit consisting of solution resistance ( $R_s$ ), polarization resistance ( $R_p$ ) and constant phase element (CPE).<sup>[26]</sup> The impedance function of CPE is expressed by the following equation:

 $Z_{CPE} = Y_0^{-1} (j\omega)^{-n} \dots (l)$ 

where Y is the proportional coefficient,  $j^2=1$  is an imaginary number,  $\omega$  is the angel frequency, n is the phase shift<sup>-[27]</sup> For n=1, CPE is equal to a pure capacitor. The double layer capacitance (C<sub>dl</sub>) and the inhibition efficiency ( $\eta$ ) for mild steel corroding in hydrochloric acid with and without inhibitors were calculated by the equations as follows:

$$C_{dl} = Y_0 (j2 \pi f)^{n-1} \dots (2)$$

$$\eta = \frac{(R_P - R^0_P)}{R_P} \times 100\% \dots (3)$$

where f is the frequency at which the impedance has a highest imaginary magnitude,  $R_p$  and  $R_p^0$  are polarization resistance with and without inhibitors, respectively. The impedance parameters obtained by fitting the experimental results are listed in Table 1. The values of n for mild steel samples with and without the protection of inhibitors are in the range of 0.7~0.8, indicating there is not pure capacitive behavior occurring at solid/liquid interface. Obviously, compared with the solution resistance (1.35  $\Omega \cdot cm^2$ ) and polarization resistance (6.592  $\Omega \cdot cm^2$ ) of the uninhibited solution, in the presence of inhibitors  $R_p$  increases with the increasing concentrations of additives while Rs almost has no changes. It can be found that, at the same dosage, 2 always has higher inhibition efficiency than 1. For instance, the maximum efficiencies of 2 and 1 at 2.0 mmol·L<sup>-1</sup> for steel corrosion in 0.5 mol·L<sup>-1</sup> HCl are 91.2% and 81.9%, respectively. For better understanding the adsorption behavior of related substances at the solid/liquid interface, the double layer capacitance is modeled by the Helmholtz formula:

$$C_{dl} = \frac{\varepsilon^{\prime} \varepsilon}{d} S \qquad .....(4)$$

The cathodic and anodic Tafel curves for mild steel electrode exposed to 0.5 mol·L<sup>-</sup> <sup>1</sup> HCl solution in absence and presence of Schiff bases at 298 K are shown in Figure 4. With the addition of 1 (Figure 4a) or 2 (Figure 4b), polarization lines move down to lower corrosion current densities and are ranked by the order of additive concentration, indicating that the corrosion rates of both cathodic and anodic partial reaction are reduced by those compounds. With respect to the corrosion potential (Ecorr) recorded in blank solution, those recorded in inhibited solutions all shift to the negative direction with a displacement less than 50 mV (vs. SCE), which suggests that both 2 and 1 act as mixed-type inhibitors.<sup>[31]</sup> We should however notice that, the inhibitive effect on cathodic hydrogen evolution reaction is dominant according to the greater decline of the cathodic Tafel curves. On the whole, the shapes of those polarization curves in the absence and presence of inhibitors are nearly the same, indicating that Schiff bases control the kinetics of corrosion process rather than change the reaction mechanism. Table 2 lists corresponding polarization curve parameters such as corrosion current density (icorr), corrosion potential (Ecorr), cathodic Tafel slope ( $\beta c$ ), anodic Tafel slope ( $\beta$ a) and the inhibition efficiency ( $\eta$ ) of Schiff base derivatives calculated via Eq. 5:

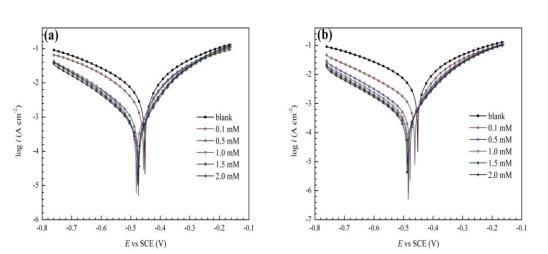


Figure 4. Potentiodynamic polarization curves for mild steel electrode exposed to 0.5 mol·L<sup>-1</sup> HCl solution in the absence and presence of 1 (a) and 2 (b) at 298 K.

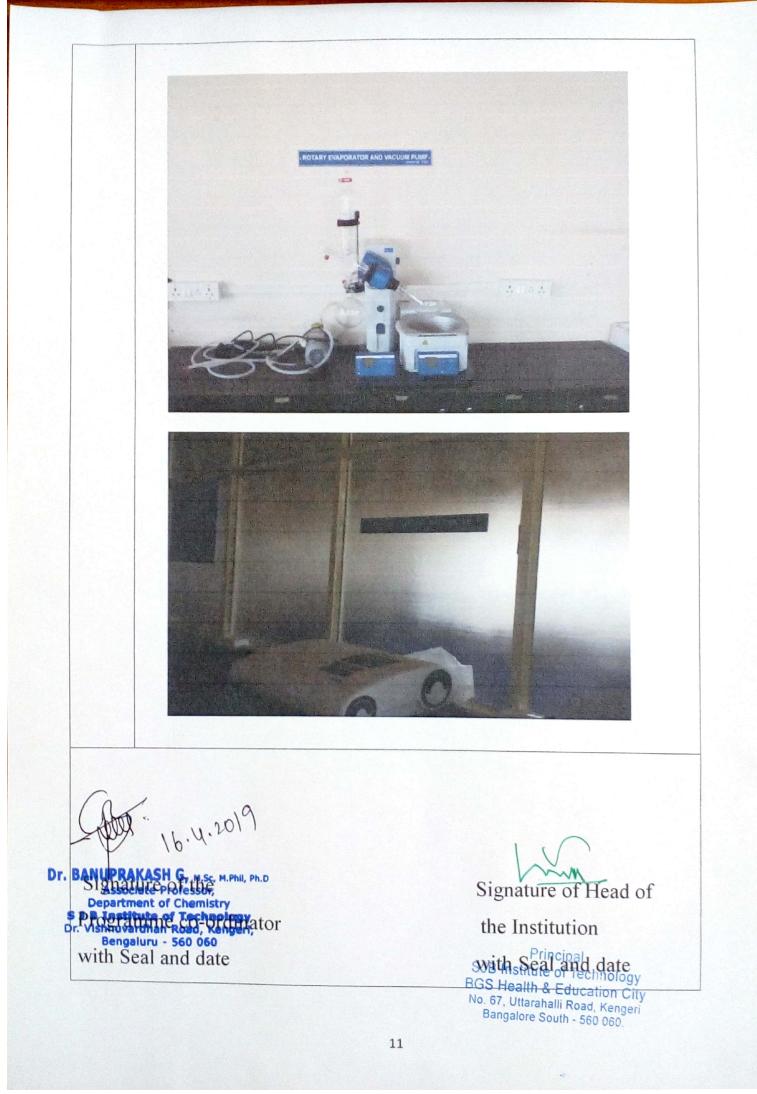
inhibitors	conc. (mmol·L <sup>-1</sup> )	E <sub>corr</sub> (mV	i <sub>corr</sub> (mAcm <sup>2</sup> )	β <sub>a</sub> (mVdec <sup>-1</sup> )	β <sub>c</sub> (mVdec <sup>-1</sup> )	η (96)
		vs. SCE)				
blank	0.0	-455	3.741	125	-159	-
1	0.1	-457	1.704	84	-125	54.
	0.5	-475	0.727	83	-124	80.
	1.0	-479	0.487	82	-99	87.
	1.5	-472	0.396	74	-105	89.
	2.0	-476	0.365	71	-102	90.
2	0.1	-464	0.832	81	-130	773
	0.5	-478	0.339	73	-117	90.
	1.0	-483	0.289	74	-120	92.
	1.5	-485	0.216	70	-110	94.

# **3.** Conclusions

Section, 1 and 2, New Schiff base compounds synthesized by renewable amino acid and vanilline in green way, have been studied as corrosion inhibitors for mild steel immersed in  $0.5 \text{ mol} \cdot \text{L}^{-1}$  HCl solution. The main conclusions are as follows:

- 1 and 2 perform as green inhibitors for the acid corrosion of mild steel and can greatly reduce the corrosion rate of metal.
- (2) The results of electrochemical impedance spectroscopy show 2 has a better inhibitory effect on metal corrosion than 1.
- (3) Tafel curves suggest 1 and 2 act as mixed-type inhibitors with dominant cathodic effect.

# 4. Scope for the further work The adsorption behavior of inhibitor molecules on steel surface in HCl solution can be studied by Langmuir Isotherm. XPS analysis to be carried out the adsorptive film of the organic compounds and corrosion products is formed on iron surface by coordination effect. Quantum chemistry calculations and molecular dynamic simulations also be studied on corrosion inhibition may be due to the two extra N atoms in molecular structure. Related Photographs related to the experimental set-up, analysis 10 results. SJB Institute of Technology Department: Chemistry CISEE SPONSORED DEPARMENT CATALYSED AND SUPPORTED BY VISION GROUP ON SCIENCE AND TECHNOLOGY Project Title: TI n Effect of Heterocyclic Compo haviour of Steel in Acidic Media <u>Co-ordinator</u> r. Banuprakash G Cost 30 Lakhs (GRD 532) Period 2017-2020



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# ENTREPRENEURSHIP DEVELOPMENT INSTITUTE OF INDIA

Near Village Bhat, Via Ahmedabad Airport & Indira Bridge, P.O. Bhat - 382 428, Dist. : Gandhinagar,

Gujarat. India. Tel. : +91-79-23969153, 23969158, 23969159, 23969161 E-mail : info@ediindia.org

Telefax : +91-79-23969164 Website : www.ediindia.org

S. B. Sareen Sr. Faculty & Project Director: DST-NIMAT EDII/DST-NIMAT/17-18/161 Date: 26/04/17

#### SPEED POST

Dr. Puttaraju Principal S. J. B. Institute of Technology 67, BGS Health & Education City Dr. Vishnuvardhan Road, Kengeri Bengaluru - 560 060 Karnataka

Kind Attention: Prof. D. M. Shinkar, Assistant Professor

Dear Dr. Puttaraju,

#### Sub: DST-NIMAT Project 2017-18: Sanction Order

Greetings from EDII, Ahmedabad!

This is with reference to your proposal submitted for conducting activities / programme(s) under the aegis of National Science & Technology Entrepreneurship Development Board (NSTEDB), Department of Science and Technology, Govt. of India, New Delhi.

We are happy to inform you that the following activities / programmes have been sanctioned:

Sr. No.	Activity / Programme	No.	Amount in Rs.	Locations
1	Entrepreneurship Awareness Camp (EAC)	2	40000	As mentioned in proposal
	Total	2	40000	

You are requested to please go through the enclosed Guidelines / Terms & Conditions as it is mandatory to follow the same.

Please note that the first installment is to be released on receipt of the following documents;

- 1. Duly Signed Agreement
- 2. Duly Signed "Terms & Conditions" (each Page)
- 3. Action Plan [Annexure-I]
- 4. Bank Details [Annexure-IA]

+ Tech Hod . Head No.: 38 ingalot

Gmail

Dr mallikarjuna swamy <pruthvi.malli@gmail.com>

Fri, May 5, 2017 at 11:40 AM

### DST-NIMAT Project 2017-18: Correction in Sanction Order

3 messages

Prakash Solanki <psolanki@ediindia.org>

To: nataraj.sjbit@gmail.com Cc: principal@sjbit.edu.in, mallikarjun@sjbit.edu.in, pruthvi.malli@gmail.com, Sareen <sareen@ediindia.org>

Dr. Natarajan HoD, ECE S. J. B. Institute of Technology Bengaluru - 560 060

Dear Sir,

Greetings from EDII, Ahmedabad

This is with reference to our telephonic conversation before few minutes regarding name mentioned at 'Kind Attention' in sanction order of DST-NIMAT Project 2017-18. We have checked the record. This name; Prof. D. M. Shinkar, is printed by mistake. The correct name is Dr. Mallikarjunaswamy S., Associate Professor, ECE. We have made the correction on our record. Please do correct on your record also.

Inconvenience cause is deeply regretted.

Thanks & regards,

Prakash Solanki Faculty & National Project Coordinator Entrepreneurship Development Institute of India, Village: Bhat, Via Indira Bridge, Dist. Gandhinagar (Gujarat) INDIA. 382 428 M: 097 2381 6384 Ph. 91-79-23969161, 23969163 Fax. 91-79-23969164

**Dr Mallikarjuna swamy** <pruthvi.malli@gmail.com> To: Prakash Solanki <psolanki@ediindia.org> Mon, May 8, 2017 at 12:20 PM

Thank u sir. i will send required documents as soon as possible..

with regard

Dr.Mallikarjunaswamy S Asso.Professor Dept ECE SJB Institute of Technology Bangalore-60

[Quoted text hidden]

**Dr Mallikarjuna swamy** <pruthvi.malli@gmail.com> To: riturajsingh@ediindia.org

[Quoted text hidden]

Wed, Sep 13, 2017 at 11:07 AM

# 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 || Phone: 080-23600978

# LIST OF PROJECTS SANCTIONED UNDER THE 41<sup>ST</sup> SERIES OF STUDENT PROJECT PROGRAMME: 2017-18

#### 103. S.J.B. INSTITUTE OF TECHNOIOGY, BENGALURU

SI. No.	PROJECT REFERENCE NO.	PROJECT TITLE	BRANCH	DEGREE	NAME OF THE GUIDE	NAME OF THE TEAM LEADER	SANCTIONED AMOUNT (in Rs.)
395.	41S_BE_1798	LIVE DATA STREAMING SYSTEM FOR SOCIAL MEDIA TO ADDRESS CIVIC ISSUES USING BIG DATA TECHNOLOGY.	COMPUTER SCIENCE AND ENGINEERING	BE	Mr. MOHAN KUMAR K N	Mr. NAVEEN KUMAR K N	5000.00
396.	41S_BE_1804	DESIGN AND FABRICATION OF ORGANIC WASTE SHREDDING MACHINE	MECHANICAL ENGINEERING	BE	Prof. T. MADHUSUDHAN	Mr. PAVANKUMAR S B	8500.00
397.	41S_BE_1808	DESIGN AND FABRICATION OF ARECA-NUT TREE CLIMBING, PLUCKING, AND SPRAYING MACHINE	MECHANICAL ENGINEERING	BE	Mr. SANJAY B S	Mr. NAGARAJ K.M	10000.00
398.	41S_BE_1810	GEO-MORHIC AND GEO-CHEMICAL STUDIES IN ASSESSMENT AND MANAGEMENT OF WATER RESOURCES USING REMOTE SENSING AND GIS	CIVIL ENGINEERING	BE	Mr. H NARENDRA KUMAR	Mr. BHARATH S	4500.00
399.	41S_BE_1812	UTILISATION OF RECYCLED FINE AGGREGATES (C&D WASTE) IN RIGID PAVEMENTS WITH WASTE POLYPROPYLENE FIBRES	CIVIL ENGINEERING	BE	Mr. Puneeth.H.C	Ms. RAMYA SHREE N	5000.00
400.	41S_BE_1815	INTEGRATED STUDIES OF HYDROGEOLOGICAL INVESTIGATION AND REMOTE SENSING TECHNIQUES IN GROUNDWATER ASSESSMENT	CIVIL ENGINEERING	BE	Prof. H NARENDRA KUMAR	Mr. NANDAN K P	4500.00

Hecouls Manope

SJB Institute of Technology **BGS Health & Education City** No. 67, Uttarahalli Road, Kengeri Bangalore South - 560 060



# Visvesvaraya Technological University

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

Dr. H.N. Jagnnatha Reddy, BE,ME,Ph.D	Phone : (0831) 2405468
REGISTRAR	Fax : (0831) 2405467
DAN WERE GOLD	and the second

Ref. No:VTU/Aca/2018-19/ 1884/45

Date: 4 JUN 2018

To , The Principal SJB 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: 18<sup>th</sup> January 2018

With reference to the above subject, please find herewith a D.D Bearing No 636208, Dated 25-May-18 of Rs. 60,000 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.

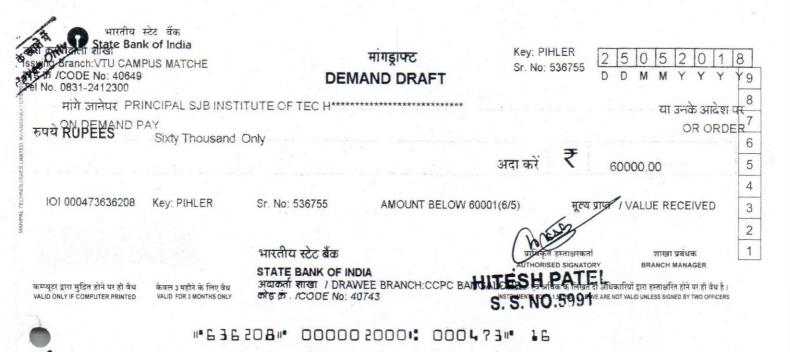
Yours faithfully

REGISTRAR



Encl: as above

- ALC Seelion





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|| Jai Sri Gurudev ||

SRI ADICHUNCHANAGIRI SHIKSHANA TRUST (R.)

# **SJB Institute of Technology**

(Affiliated to Visveswaraya Technological University, Belagavi and Approved by AICTE - New Delhi) No. 67, BGS Health & Education City, Dr. Vishnuvardhan Road, Kengeri, Bengaluru - 560 060.

Phone : 080-28612445 / 46 Fax : 080-28612651 Web : www.sjbit.edu.in E-mail : principal@sjbit.edu.in

Ref: SJBIT / ADM / 878 2017 . 18

Date: 09-02-2018

**To,** The Registrar, Visvesvaraya Technological University, 'Jnana Sangama', Belagavi-590018

Respected Sir,

# Sub: Financial Assistance to the Deserving Projects

With reference to the above cited subject and as recommended by the experts committee branch-wise, 12 (Twelve) best projects are identified from 6 (Six) departments (UG) - top two deserving projects from each department.

Details of number of projects branch-wise and the monetary demand is enclosed herewith this letter.

I request you to consider this letter and do the needful by providing financial assistance to the deserving projects.

Thanking you,

Your's faithfully,

(Dr. Puttaraju) Principal SJB Institute of Technology # 67, BGS Health & Education City, Dr. Vishnuvardhan Road, Kengeri, Bengaluru - 560 060 ||Jai Sri Gurudev||

Sri Adichunchanagiri Shikshana Trust (R)

# SJB INSTITUTE OF TECHNOLOGY

(Affiliated to Visvesvaraya Technological University, Belgavi & Approved by AICTE, New Delhi) No. 67, BGS Health & Education City, Dr. Vishnuvardhan Road,

Kengeri, Bengaluru-560060.

Web: www.sjbit.edu.in, Email: principal@sjbit.edu.in, Phone: 080-28612445/46, Fax: 080-28612651

Date: 09/02/2018

With reference to the circular by VTU(VTU/Aca/2017-18/9702). The following projects have been selected from each Department to avail the financial assistance provided by VTU.

Sl. No.	Name of the Department	USN	Name of the Student	Title of the Project	Name of the Guide	Monetary Request
	а А. Т.	1JB14EC012	Arpitha Bai L	Implementation of		
1		1JB14EC058	N Ramya	Embedded system based	Dr. K R Nataraj	5,000/-
	Electronics &	1JB14EC060	Neha A	Blood Bank	422709	
1	Communication Engineering	1JB14EC041	Keerthana C	Implementation of		
2	Engineering	1JB14EC070	Priyanka R	Automatic Face and Vehicle License plate	Dr. Chandrappa D	5,000/-
		1JB14EC020	Chandrika K	Recognition for safety measures	N H22710	
3		1JB14CV099	Smruti .R. Kulkarni	Characteristic Strength Of	Mr. Nisarg	
		1JB14CV104	Suchith .S	Self Curing Concrete	Shankar	5,000/-
3		1JB15CV420	Praveen Kumar .S.K	Using Steel Fibers	Shanka	5,000/-
1.	Civil	1JB14CV074	Prajwal .B.S		422711	
	Engineering	1JB14CV068	Nitya Joshi	An Experimental Study		
		1JB14CV092	Santosh Kumar	On Partial Replacement	Mrs. ArpithaGowda	5 000/
4		1JB14CV069	Nityananda	Of Eggshell Powder And		5,000/-
		1JB14CV120	Aakashbapat	Coconut Coirs In Concrete	422712	
		1JB14CS009	Aditya Sirish	An Analysis of Pose		5,000/-
5		1JB14CS010	Aishwarya Padmanabha	estimation one LiDAR generated point cloud data	Dr. Srikantaiah K	
5	Commenter	1JB14CS012	Ajay G	using convolution neural	C	
	Computer Science &	1JB14CS028	Anaga	Networks	H22713	
	Engineering	1JB14CS130	Sharadhi N			
6	0	1JB14CS132	Shashank R	Protection on the $go - A$ Wearable device to curb	Dr. Krishna A N	5,000/-
6		1JB14CS135	Shashidhara G	child abuse	Dr. Krisnna A N	5,000/-
		1JB14CS138	Shraavya K		422714	
	Information	1JB14IS062	Prashanth S Pujar	Automated Car with	, ,	
7	Science and	1JB14IS016	Anush J Kini	distance sensor using	Mrs Pavitra Bai	5,000/-
	Engineering	1JB14IS009	Akshay C S	Raspberry Pi	S	
		1JB14IS033	G Pramukh		422715	

		1JB14IS052	Nandan S				
		1JB13IS032	Jeevan B G	Arduino GPS tracking			for
3		1JB13IS062	Prajwal H Roy	system	Mr. Ranjith J 5,000/-	25	
		1JB14IS056	P R Naga Karthik		422716		25
-	-	1JB14EE002	Aishwarya B				
9		1JB14EE004	Anamika Mehta	Greenhouse control using	Dr. Babu N V	5,000/-	Rain
		1JB14EE011	Hemalatha C	micro controller			Ker.
	Electrical &	1JB14EE038	Shivani		422717		1.1
-	Electronics	1JB14EE003	Akash P C	Power generation in heavy locomotives			
	Engineering	1JB14EE007	Balaji K N		DI D ILITI	5,000/-	Ram
0		1JB14EE035	Roopesh Kumar N		Mrs. Deepthi H L	5,000/-	Kam
		1JB15EE406	Kashinath K		422718		_
	1	1JB14ME081 Puneethkumar B.C		Design And Fabrication			
		1JB14ME106	Sunil.G	Of Smart Car Garage	Dr. SukantaRoga	5,000/-	1
1		1JB15ME417	Satya Raj N	Of Sinart Car Garage	Clear thras	\$7.	0
	Mechanical	1JB15ME419	Sushant A Pattanakudi		422719	00	
	Engineering	1JB14ME067	Owais Arsalan	Design And Fabrication	Mr. Gangadhar T		
~		1JB14ME075	Piyush R Patil	Of Grape Destemmer &	G G	5,000/-	N
2		1JB14ME110	Uttam Kishore	Crushing Machine	0	5,000	15
		1JB14ME125	Aniketh N.K		422720	2720	

Principal