



VISION GROUP ON SCIENCE AND TECHNOLOGY

Department of Information Technology, Biotechnology & Science & Technology
Karnataka Government Secretariat, No.702, 7th Floor, 4th Stage, M. S. Building, Dr. Ambedkar
Veedhi, Bengaluru-560 001

Website: www.vgst.in Email: visiongroup.st@gmail.com

FINAL PROGRESS REPORT

On

**DETECTION OF ARTIFICIALLY RIPENED FRUITS AND
QUANTIFICATION OF HAZARDOUS CHEMICAL COMPOUNDS USING
SPECTROMETRIC TECHNIQUES**

With details

GRD NO : GRD-726

SCHEME : RGS/F

Submitted By

Programme Co-ordinator

Dr. ROOPALAKSHMI. R

Professor



**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING
ALVAS INSTITUTE OF ENGINEERING AND TECHNOLOGY**

Shobhavana Campus, Mijar, Moodbidri, D.K – 574225

2019– 2020

ABSTRACT

Fruits are one of the most nutritious and naturally available foods, which are generally consumed in raw form. However, in the present competitive world, almost 80% of fruits are ripened using hazardous chemicals such as Calcium carbide (CaC_2) by greedy traders which cause serious health issues. According to health statistics reports, the consumption of fruits ripened using Calcium carbide leads to various harmful effects such as vomiting, diarrhea, abdomen ulcers, general weakness, and sometimes permanent eye damage, breathing shortness and also miscarriages.

In India, most of climacteric fruits such as Mango, Banana and Papaya are artificially ripened with industrial grade Calcium carbide, which usually consists of traces of toxic chemicals such as Arsenic and Phosphorus. Specifically, in India Calcium carbide, a carcinogen, is widely used for artificial ripening of fruits such as mangoes, which is illegal and strictly banned as per PFA (Prevention of Food Adulteration) Act (1955). Since, the usage of CaC_2 for fruit ripening results in serious health problems, the identification of artificially ripened fruits and the quantification of CaC_2 in such fruits is very much essential in order to safeguard the consumers from hazardous health problems. However, finding out the artificially ripened fruits is difficult with human eye observation. On the other hand, in the existing literature, only few efforts are carried out towards the identification of chemically ripened fruits by means of combination of spectrometric and computer vision based techniques. Based on these aspects, in this research project, a new device is developed for detecting the chemically ripened fruits by making use of IR-based spectrometric as well as image processing techniques. It also attempts to display the chemical contaminations of resultant fruit in terms of presence of toxic elements such as Arsenic by comparing their internal compositions with the natural ripened ones.

The proposed device captures the input image of sample fruit and compares the features with the corresponding database fruit features and identifies the artificially ripened ones. Further, IR sensor- based spectrometric techniques are employed to capture the exterior features of the fruit, in order to display the accurate chemical analysis of the sample fruit. Experimental setup of the proposed framework including IR camera, GFP setup is tested on a real dataset of different types of banana as well as mango images. The experimental results in terms of accuracy and confidence level measures demonstrate the efficiency of the proposed system.

GRD NO

726

PART – B AND PART -C
(After Procurement)

To be submitted by Grantee Institution to VGST After Procurement

1	Financial Status Proforma (to be Authenticated by the Principal & PC)	ANNEXURE – 5 --Attached--
2	Photocopy of Bank pass book (to be Authenticated by the Principal & PC)	ANNEXURE – 6 --Attached--
3	Utilization Certificate (UC) (to be Authenticated by the Local or College Auditors) (2 Original copies should be submitted separately to VGST)	ANNEXURE – 7 --Attached--
4.	<p style="text-align: center;"><u>PART -C</u></p> <p style="text-align: center;">Progress Report</p> <p style="text-align: center;">(ANNUAL / INTERIM / FINAL)</p> <p style="text-align: center;">Two Copies of the report in soft bound format [with signatures of the Head of the institution and Programme Co-ordinator] to be submitted for the office purpose of the project.</p>	


PRINCIPAL
Alva's Institute of Engg. & Technology,
Nijar, MOODIBIDRI - 574 225, D.K

ANNEXURE – 5**FINANCIAL STATUS PROFORMA (FSP)**


Name of Educational Institution	Alva's Institute of Engineering and Technology
Name of the Department	Information Science & Engineering (ISE)
Name of the Programme Co-ordinator (PC)	Dr. Roopalakshmi. R
Project Title	Detection of Artificially Ripened Fruits and Quantification of Hazardous Chemical Compounds Using Spectrometric Techniques
VGST Grant Allocation Year	2018 - 2019
Date of Completion of Project Work	
Allocation (Rs. in lakh)	5.0 Lakhs

BANK DETAILS

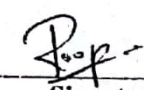
NAME OF THE BANK & ADDRESS	State Bank of India, Main Road, Moodbidri- 574227
NAME OF THE A/C HOLDER	Principal, Alva's Institute of Engineering and Technology
BRANCH & PLACE	Moodbidri Main Road, Moodbidri, Dakshina Kannada District, Karnataka -574227.
ACCOUNT NUMBER	32945900170

EXPENDITURE DETAILS

NON RECURRING	4,01,427.00
RECURRING	98,573.00
TOTAL SPENT	5,00,000.00
UNSPENT	0.00
INTEREST EARNED	0.00
BALANCE	0.00

Signature 
Principal/ HOD/ Registrar/ Dean
(with seal)

PRINCIPAL
Alva's Institute of Engg. & Technology,
Mijar, MOODBIDRI - 574 225, D.K.

Signature 
Programme Co-ordinator
(with seal)

Dr. ROOPALAKSHMI
Professor, Dept. of Info. Sci. & Engg. (ISE)
Alva's Institute of Engg. & Technology
Mijar, Moodbidri - 574225


PRINCIPAL
Alva's Institute of Engg. & Technology,
Mijar, MOODBIDRI - 574 225, D.K.

Umesha Rao M. B.Com, FCA, DISA (ICAI)
Chartered Accountant

No. 4-31 V-1, 1st Floor,
Arihantha Complex, Main Road,
Moodbidri - 574227, Mangalore Tq., D.K.
Ph: 08258 - 238769, +91 9448300325
E-mail: umeshraom@rediffmail.com

UTILIZATION CERTIFICATE

GRD NO: GRD-726

SCHEME: RGS/F

PROJECT TITLE: Detection of Artificially Ripened Fruits and Quantification of Hazardous Chemical Compounds Using Spectrometric Techniques

Sl. No.	Details	Amount
1	Previous year Balance (Opening Balance (OB), If any)	0.00
2	Grants Received (chq no:006005 chq dt: 18.09.2018)	5,00,000.00
3	Bank Interest (If any)	0.00
4	Total Available Grants(1+2+3)	5,00,000.00
5	Actual Grants Utilized (Statement of Expenditure Enclosed)	5,00,000.00
6	Unspent Balance(4-5)	0.00

Certified that Rs. **5.0 Lakhs** of grant-in-aid under (RGS/F) was released by Karnataka Science and Technology Promotion Society (KSTePS) in favour of **Principal, Alva's Institute of Engg. & Tech., Moodbidri** vide letter No. **KSTePS/VGST/RGS/F/2017-18/GRD-726/90/2018-19** as stated above during the year 2018 - 2019. The above grant was sanctioned towards Project Title "**Detection of Artificially Ripened Fruits and Quantification of Hazardous Chemical Compounds Using Spectrometric Techniques**". Out of sanctioned grants, a sum of **Rs. 5,00,000/-** has been utilized for the purpose of which it was sanctioned and **Rs. 0.00** remained unutilized at end of the financial year 2019-2020, 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 and Address of the Project Coordinator

Dr. R. Lakshmi
Professor, Dept of Info Sci & Engg (ISE)
Alva's Institute of Engg. & Technology
Mijar, Moodbidri - 574225

Signature of the Head of Institution and Seal
PRINCIPAL

Alva's Institute of Engg. & Technology,
Mijar, MOODBIDRI - 574 225, D.K.



UMESHA RAO M
Chartered Accountant
FRN: 091915

M.NO: 207835
UDIN: 19207835AAAAGF7460

PRINCIPAL
Alva's Institute of Engg. & Technology,
Mijar, MOODBIDRI - 574 225, D.K.

Statement of Expenditure for the Project Title "Detection of Artificially Ripened Fruits and Quantification of Hazardous Chemical Compounds Using Spectrometric Techniques"

Sl. No.	Particulars	Total Expenses (Rs.)
1	Total Grants Received (Including Opening Balance & Bank Interest)	5,00,000.00
➤ Expenditure Break Up (Each Item wise as approved and sanctioned of Non-Recurring and Recurring Equipment)		
	Non-Recurring (NRE)	Amount
NR1	CCD/ CMOS – Camera with NDIR Sensor	90,200.00
NR2	InGaAs – ARRAY/ GAS Detector	38,255.00
NR3	USB and Trigger cables, Mount Adapters, Connecting Boards, Test Target Slider, Mount and Setup	62,035.00
NR4	Data Processing Unit- Laptop/ Notebook 2-in-1 with Intel i7 core	80,257.00
NR5	Complete Display Panel setup with standard LCD display	36,225.00
NR6	Software tools for setup and implementation	94,455.00
A	Total of Non-Recurring Expenditure	4,01,427.00
	Recurring (RE)	Amount
RE1	Electrical and Electronics spare parts	8,839.00
RE2	Contingency	23,846.00
RE3	Books and Journal	5,500.00
RE4	Chemicals, Glassware, Plastic Ware and Biological Specimen	59,739.00
RE5	Other charges	649.00
B	Total of Recurring Expenditure	98,573.00
2	Total Expenditure (A +B)	5,00,000.00
3	Unspent Balance (1-2)	0.00

Kind of checks exercised:

1. Vouching
2. Bank Reconciliation
3. Supporting Bills

CERTIFICATE

Certified that we have verified the disbursement of Rs. Five Lakhs (in words) towards statement of Expenditure of GRD-726 as mentioned above.

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

Place: Moodbidri

Date: 19/12/2019

Signature and Address of the Project Coordinator

Roopalakshmi
Roopalakshmi
Professor, Dept of Bio Sci & Engg (ISE)
Signature of Roopalakshmi
Mijar, Moodbidri - 574225

Signature of the Head of Institution and Seal

Principal
Principal
Aro's Institute of Engg. & Technology,
Mijar, MOODBIDRI - 574 225, D.K

Umesha Rao M
UMESHA RAO M
Chartered Accountant
FRN: 091915

M.NO: 207835

UDIN: 19207835AAAAGF7460

D.K

STATEMENT OF ACCOUNT

STATE BANK OF INDIA
MOODBIDRI
POST BAG NO.4, MAIN ROAD,
MOODBIDRI
Branch Code : 5623
Branch Phone : 238481
IFSC:SBIN0005623

PRINCIPAL ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY MICR:575002021
SHOBHAVANA CAMPUS, MIJAR

Account No. : 32945900170
Product : CA-SURABHI-PUB OTH-ALL-INR
Currency : INR

MOODBIDRI, MANGALORE
574225

Date : 13/12/2019 **Time :** 14:09:17

E-mail :

Cleared Balance : 0.02Cr

Uncleared Amount : 0.00

+MOD Bal: 0.00

Limit : 0.00

Drawing Power : 0.00

Int. Rate : 0.00 % p.a.

Nominee Name :

Statement From 18/09/2018 to 12/12/2019

Page No. : 1

Post Date	Value Date	Details	Chq.No.	Debit	Credit	Balance
		BROUGHT FORWARD :				11020.42C
1/10/18	11/10/18	SWEEP TRF CREDIT TRF FR 0036981785177 TERM OF FD 0365D INT: 78700ROI:			49787.00	60807.42C
1/10/18	11/10/18	CAS PRES CHQ HDF SCALETEC MECHA	333861	50000.00		10807.42C
0/10/18	30/10/18	CAS CHQ XFER WD WITHDRAWAL TRANSFER TRF TO 0020007803671 AT 05623 MOODBIDRI	333862	354.15		10453.27C
0/10/18	30/10/18	SWEEP TRF CREDIT SWEEP DEPOSIT BY TRA TRF FR 0036981785177 MATURED ON 01/07/19 INT: 1900ROI:			1019.00	11472.27C
0/10/18	30/10/18	CAS CHQ XFER WD WITHDRAWAL TRANSFER TRF TO 0010513940255 AT 05623 MOODBIDRI	333864	1182.95		10289.32C
0/10/18	30/10/18	SWEEP TRF CREDIT SWEEP DEPOSIT BY TRA TRF FR 0036981785177 MATURED ON 01/07/19 INT: 56100ROI:			29977.00	40266.32C
0/10/18	30/10/18	RENT THRU CHQ NEFT UTR NO: SBIN718 303326660 000000000000 SCALETEC MECHATRONIC	333863	39685.90		580.42C
1/10/18	31/10/18	CHQ TRFR FROM AT 05623 MOODBIDRI	006005		500000.00	500580.42C
1/11/18	05/11/18	CAS CHQ XFER WD BASAVARAJU B TRF TO 0020007803671 AT 05623 MOODBIDRI	333866	580.40		500000.02C
5/02/19	16/02/19	CAS PRES CHQ CARRIED FORWARD :	333865	3767.00		496233.02C 4,96,233.02Cr

Statement Summary

r. Count 6

Cr. Count 4

PRINCIPAL
Alva's Institute of Engg. & Technology
Mijar, MOODBIDRI - 574 225, D.K

5,80,783.00

STATEMENT OF ACCOUNT

STATE BANK OF INDIA
MOODBIDRI
POST BAG NO.4, MAIN ROAD,
MOODBIDRI
Branch Code : 5623
Branch Phone : 238481
IFSC:SBIN0005623

PRINCIPAL ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

SHOBHAVANA CAMPUS, MIJAR

MOODBIDRI, MANGALORE
574225

Account No. : 32945900170

Product : CA-SURABHI-PUB OTH-ALL-INR

Currency : INR

Date : 13/12/2019

Time : 14:09:17

E-mail :

Cleared Balance :

0.02Cr

Uncleared Amount :

0.00

+MOD Bal:

0.00

Limit :

0.00

Drawing Power :

0.00

Int. Rate : 0.00 % p.a.

Nominee Name :

Statement From 18/09/2018 to 12/12/2019

Page No. : 2

Post Date	Value Date	Details	Chq.No.	Debit	Credit	Balance
		BROUGHT FORWARD :				496233.02C
		KBL OFFICE ACCOUNT				
2/03/19	12/03/19	AC KEEPING FEES		649.00		495584.02C
06/05/19	06/05/19	CAS PRES CHQ	333867	21062.00		474522.02C
		KBL OFFICE ACCOUNT				
30/05/19	30/05/19	CAS PRES CHQ	333868	80257.00		394265.02C
		VJB YASHAS COMPUTE				
9/06/19	19/06/19	CAS PRES CHQ	333869	40768.00		353497.02C
		KBL 1				
6/07/19	26/07/19	CAS PRES CHQ	333870	90200.00		263297.02C
		COB AKSHATHA ELECT				
29/07/19	29/07/19	CAS PRES CHQ	333871	38255.00		225042.02C
2/10/19	02/10/19	PRE LCPC, OBTAIN AOF				
05/10/19	05/10/19	CAS PRES CHQ	333872	46473.00		178569.02C
		COB AKSHATHA ELECT				
07/10/19	07/10/19	CAS PRES CHQ	333873	82605.00		95964.02C
		VJB YASHAS COMPUTE				
4/12/19	04/12/19	CAS PRES CHQ	333876	59739.00		36225.02C
		COB AKSHATHA ELECT				
6/12/19	06/12/19	CAS PRES CHQ	333874	36225.00		0.02C
		VJB YASHAS COMPUTE				

Principal Investigator (PI) (PC)

Dr. ROOPAN KSHAN
Principal Investigator (PI) (ISE)
Alva's Institute of Engg. & Technology
Mijar, MOODBIDRI - 574 225, D.K

CLOSING BALANCE :

Alva's Institute of Engg. & Technology,
Mijar, MOODBIDRI - 574 225, D.K

Statement Summary
Count 16

Cr. Count 4

5,91,803.40

5,80,783.00

PART - C

Progress Report

(~~ANNUAL~~ / INTERIM / ☒ FINAL)

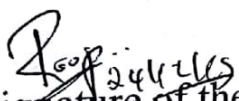
(Two Copies of the report in soft bound format and CD of the soft copy in PDF format [with signatures of the Head of the institution and Programme Co-ordinator] to be submitted for the office purpose of the project.)

SL	PARTICULARS	DETAILS						
1	GRD - NO	726						
2	Scheme (Please tick)	GESEM/ CISEE/ K-FIST-L1/ <input checked="" type="checkbox"/> K-FIST-L2/ RGSF						
3	• Name of the Programme Coordinator	Dr. Roopalakshmi. R						
4	• Name and Address of the Institution. • Name of the Department	Alva's Institute of Engineering and Technology, Moodbidri Information Science & Engineering (ISE)						
5	Instalment Received (tick)	<input checked="" type="checkbox"/> / <input checked="" type="checkbox"/> H / <input checked="" type="checkbox"/> / RGSF						
6	Total Amount Released for the Project to date.	Rs. 5.0 Lakhs						
7	Details of collaborating Institution (if any) Please furnish the Details	-Nil-						
8	Time schedule of the VGST Programme	<table border="1"><tr><td>1st Year</td><td><input checked="" type="checkbox"/></td></tr><tr><td>2nd Year</td><td>-</td></tr><tr><td>3rd Year</td><td>-</td></tr></table>	1 st Year	<input checked="" type="checkbox"/>	2 nd Year	-	3 rd Year	-
1 st Year	<input checked="" type="checkbox"/>							
2 nd Year	-							
3 rd Year	-							



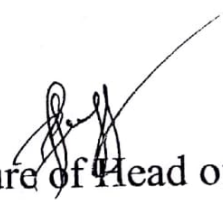
PRINCIPAL

9	<p>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.</p> <p>-----Final Project Report is attached-----</p>
10	<p>Research Publication in connection for the Project. (enclosures)</p> <p>-----Enclosed in Appendix Part of Project Report-----</p>
11	<p>Related Photographs related to the experimental set-up, analysis results.</p> <p>-----Photographs are enclosed at the end of Project Report-----</p>


Signature of the


Programme co-ordinator
with Seal and date

Dr. ROOPALAKSHMI
Professor, Dept. of Info. Sci. & Engg. (ISE)
Alva's Institute of Engg. & Technology
Mijar, Moodbidri - 574225


Signature of Head of
the Institution

with Seal and date
PRINCIPAL

Alva's Institute of Engg. & Technology,
Mijar, MOODBIDRI - 574 225, D.K


PRINCIPAL
Alva's Institute of Engg. & Technology,
Mijar, MOODBIDRI - 574 225, D.K



ಕರ್ನಾಟಕ ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ಪ್ರೋತ್ಸಾಹಕ ಸೊಸೈಟಿ

ಮಾಹಿತಿ ತಂತ್ರಜ್ಞಾನ, ಟೆಲಿಕಮ್ಯುನಿಕೇಷನ್ ಹಾಗೂ ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ಇಲಾಖೆ, ಕರ್ನಾಟಕ ಸರ್ಕಾರ

'ವಿಜ್ಞಾನ ಭವನ' ನಂ: 24/2, 3ನೇ ಮಹಡಿ, 2ನೇ ಮುಖ್ಯ ರಸ್ತೆ, ಬಸವನಗುಡಿ 2ನೇ ಹಂತ, ಬೆಂಗಳೂರು-560 070

ದೂರವಾನ್/ಫ್ಯಾಕ್ಸ್: 080-26711166 / 26711160 ಇ-ಮೇಲ್: kstps.dst@gmail.com

ಡಾ. ಹೆಬ್. ಹೊನ್ನೇಗೌಡ
ವ್ಯವಸ್ಥಾಪಕ ನಿರ್ದೇಶಕರು, ಕೆಸ್ಪೆಪ್ಸ

ನಂ. KSTePS/VGST/RGS/F/2017-18/GRD-726/90/2018-19

ದಿನಾಂಕ: 18.09.2018

ಮಾನ್ಯರೇ,

ವಿಷಯ: 2017-18ನೇ ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ದಾರ್ಶನಿಕ ಸಮೂಹದ RGS/F ಯೋಜನೆಯಡಿಯಲ್ಲಿ
ಅನುದಾನ ಬಿಡುಗಡೆ ಮಾಡುವುದರ ಬಗ್ಗೆ.

ಉಲ್ಲೇಖ: 1) ನರ್ಕಾರಿ ಆದೇಶ ಸಂಖ್ಯೆ: ವಿಯಇ 154 ವಿತ್ತಮ 2018(ಭಾಗ-2), ದಿ: 18.08.2018

2) ಕಛೇರಿ ಪತ್ರ ಸಂಖ್ಯೆ: No. KSTePS/VGST-RGS/F/GRD No.726/2017-18/157, Date: 27.08.2018

ಮೇಲ್ಕಂಡ ವಿಷಯ ಮತ್ತು ಉಲ್ಲೇಖಗಳಿಗೆ ಸಂಬಂಧಿಸಿದಂತೆ, 2017-18ನೇ ಸಾಲಿನಲ್ಲಿ ತಮ್ಮ ಸಂಸ್ಥೆಯಿಂದ ಸಲ್ಲಿಸಿದ ಪ್ರಸ್ತಾವನೆಯಾದ "Detection of Artificially Ripened Fruits and Quantification of Hazardous Chemical Compounds Using Spectrometric Techniques"ನ್ನು ವಿತಂದಾಸದ ಪ್ರಮುಖ ಕಾರ್ಯಕ್ರಮವಾದ Research Grant for Scientist/Faculties (RGS/F) ನ ಯೋಜನೆಯಡಿಯಲ್ಲಿ ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ದಾರ್ಶನಿಕ ಸಮೂಹವು ಆಯ್ಕೆ ಮಾಡಿದ್ದು, ಅದರಂತೆ ಆದೇಶ ನೀಡಿರುವುದು ಸರಿಯಾಗಿದೆ.

ಈ ಸಂಬಂಧ, ವಿತಂದಾಸದ RGS/F ಯೋಜನೆಯಡಿ ಆಯ್ಕೆಯಾದ ತಮ್ಮ ಸಂಸ್ಥೆಗೆ ರೂ. 5.00 ಲಕ್ಷಗಳ ಅನುದಾನವನ್ನು ಬಿಡುಗಡೆ ಮಾಡಲು ದಿನಾಂಕ: 18.09.2018 ರಂದು Principal, Alva's Institute of Engineering & Technology, Moodbidri ಹೆಸರಿನಲ್ಲಿ ಚೆಕ್ (ನಂ. 006005) ಬರೆದು, ಸದರಿ ಚೆಕ್‌ನ್ನು ಈ ಪತ್ರದೊಂದಿಗೆ ಲಗತ್ತಿಸಿ ಕಳುಹಿಸಿಕೊಡಲಾಗಿದೆ. ಮುಂದುವರಿದು, ಚೆಕ್ ಸ್ವೀಕರಿಸಿದ ನಂತರ ಸ್ವೀಕೃತಿ ರಶೀದಿ (Acknowledgement) ಯನ್ನು ಕೆಸ್ಪೆಪ್ಸಿಗೆ ಕಳುಹಿಸುವುದು ಹಾಗೂ ಸದರಿ ಅನುದಾನವನ್ನು ಯಾವುದಾದರೂ ರಾಷ್ಟ್ರೀಕೃತ ಬ್ಯಾಂಕ್‌ಗಳಲ್ಲಿ ಉಳಿತಾಯ ಖಾತೆಯಲ್ಲಿಟ್ಟು (Saving Bank Account) ಅಗತ್ಯಕತೆಗನುಗುಣವಾಗಿ ಅನುದಾನವನ್ನು ಬಳಸುವಂತೆ ಕೋರಲಾಗಿದೆ.

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

PRINCIPAL

Alva's Institute of Engg. & Technology,
Majur, MOODBIDRI - 574 225, D.K

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Karnataka Science and Technology Promotion Society

Dept. of Information Technology, Bio Technology and Science & Technology, GoK
"Vijnana Bhavan", 3rd Floor, #24/2, 21st Main Road, Banashankari 2nd Stage, Bangalore-70
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-RGS/F/GRD No.726/2017-18

Date: 27.08.2018

Dear Sir/Madam,

Sub: Intimation of selection of RGS/F Project under the VGST scheme -reg.

Greetings from KSTePS, Dept. of Information Technology, Biotechnology and Science and Technology!!

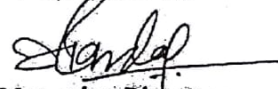
We are pleased to inform you that the RGS/F Engineering program titled "Detection of Artificially Ripened Fruits and Quantification of Hazardous Chemical Compounds Using Spectrometric Techniques" submitted under the VGST scheme for the Financial Year 2017-18 has been approved by the Government based on the recommendations of Vision Group on Science and Technology under the Chairmanship of Prof. CNR Rao, Honorary President, JNCASR. You may kindly initiate necessary action for organization of the program at the earliest.

Please provide the cheque in favour address of your Institution, for releasing the sanctioned grants.

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

Thanking You,

Yours sincerely,


Managing Director

To,
The Principal
Alva's Institute of Engineering and Technology
Shobhavana Campus, Mijar
Mangaluru, DK District
Moodbidri - 574225

CC: 1. Dr. Roopalakshmi R., Dept. of ISE, Alva's Institute of Engineering and Technology, Shobhavana Campus, Mijar, Mangaluru, DK District, Moodbidri - 574 225 - RGS/F Grantee.

2. Consultant, Vision Group on Science and Technology, KSTePS, Dept. of IT, BT and S&T
Karnataka Government Secretariat, Room No. 702, 7th Floor, 4th Gate, M. S. Building
Dr. Ambedkar Veedhi, Bangalore- 560 001.


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