





KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science campus, Bengaluru

Telephone: 080 -23600978, 23341652 || Email: spp@kscst.org.in Website: www.kscst.iisc.ernet.in/spp.html or www.kscst.org.in/spp.html

FORMAT FOR STUDENT PROJECT PROPOSAL FOR THE 46th SERIES OF STUDENT PROJECT PROGRAMME

(Handwritten proposals will not be accepted, please fill all the details in this MS word file, insert images / diagrams wherever necessary. Convert to pdf file, get it approved from the project guide / head of the department and principal of your institution. Keep ready the scanned pdf file of 1) Declaration and Endorsement 2) details of processing fees made and fill-up the Google Form. Send the softcopy of the project proposal including the three scanned pages and send the proposal (All information in one pdf file) by email to spp@kscst.org.in

https://forms.gle/pMfzw4iKL7LNAojd8

1.	Name of the College:
	GSSS Institute of Engineering and Technology for Women, mysore.
2.	Project Title:
	PESTICIDE SPRINKLER WITH IOT BASED SECURITY
3.	Branch:
	Electrical & Electronics Engineering
4.	Theme (as per KSCST poster):
	Stream 7
5.	Name(s) of project guide(s):
	1. Name: Mrs. Shilpashri V N
	Email id:shilpashri@gsss.edu.in
	Contact No:8722031159

KSCST: Student Project Programme: 46th series: 2022-2023

6. Name of Team Members (Strictly not more than four students in a batch):

Name: Bhoomika C P USN No: 4GW19EE005

Email id: bhoomikapoonacha@gmail.com

Mobile No: 8861493073

Name: Prakruthi K N USN No: 4GW19EE026

Email id: prakruthigowdakn02@gmail.com

Mobile No: 8088321587

Name: Rakshitha G USN No: 4GW19EE030

Email id: rakshitharakshi218@gmail.com

Mobile No: 6363498778

Name: Vidyashree K USN No: 4GW19EE041

Email id: vidyakantharaju6@gmail.com

Mobile No: 8660020352

7. Team Leader of the Project:

Name: Rakshitha G USN No: 4GW19EE030

Email id: rakshitharakshi218@gmail.com

Mobile No: 6363498778

8. Processing Fee Details (Through Online Payment only):

(processing fee of Rs. 1000/-)

Please furnish the payment made details provided in the last page of this

proposal.

UPI No: 000394063218

Date: 31/01/2023

Bank Name: CANARA BANK

9. Date of commencement of the Project:

05/10/2022

10. Probable date of completion of the project:

05/05/2022









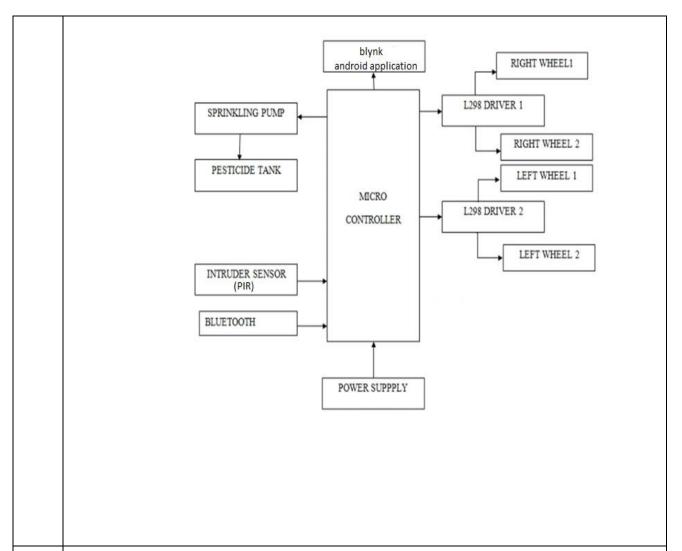


11. Scope / Objectives of the project:

- To reduce human effort in the agricultural field with the use of small machine.
- To perform all operations at single time, hence increases production and saves time.

12. Methodology:

The robot is made to travel in the farm and it is powered through batteries using a programming board and its direction controlled by Android application(blynk). The spraying of pesticides which can be done with the help of pesticide sprinkling pump and is periodically sprayed whenever the process is on the spraying angle is kept exactly at 180. And the length of the spraying mouth can be extended as much as we required. The system focused on the design, development and the fabrication of the agricultural robot with pesticide spraying system in addition to security system using IOT. The problems associated with the manual operated spraying machine are rectified and designed a new machine to overcome those problems. Selection of the motor is a major problem because it depends on the torque required and weight to be pulled, by using formals the motor has been selected. The battery selection also places an important role the required power is delivered to the system by the battery. The choice of materials for a vehicle is the first and most important factor for automotive design. In this we used Mild Steel bar alloy as a base material for chassis it will provide maximum strength and minimum deflection compared to other chassis material.



13. Expected Outcome of the project:

- The spraying time of insecticides is depending on the quantity of pesticide to be sprayed.
- Internet of Things is far and wide castoff in relating devices and gathering statistics. This agriculture monitoring system serves as a reliable and efficient system and corrective action can be taken. Wireless monitoring of field reduces the human power.

Is the project proposed relevant to the Industry / Society or Institution?

Yes / No:

No

If Yes, please provide details of the Industry / institution and contact details:

No

Can the product or process developed in the project be taken up for filing a Patent?

Yes / No:

No

Prior Art search done?

Yes/No:

No

16. Budget details (break-up details should be given):

Note: KSCST will provide nominal grant support for carrying out the project by students if selected by the project selection committee.

Budget	Amount
a) Materials / Consumables (Please specify)	7000.00
b) Labor (Describe)	3000.00
c) Travel (Describe)	500.00
e) Miscellaneous (Please specify)	500.00
Total	11000.00

17. Any other technical details (Please specify):

Hardware Requirements:

- Arduino
- Buzzer
- Car kit
- LN298 Motor Driver
- PIR Sensors

Software Requirements:

- Arduino IDE
- Blynk

18. SPP Coordinator (Identified by the college):

Note: To be identified by the principal of the institution. The project proposals must be submitted to KSCST through SPP coordinator designated by the Principal.

Name: Mr. RAJASHEKAR M B Email id: rajashekar@gsss.edu.in

Contact No.:9620268281

 Name of the Project Guide: Shilpashri V N Name of the HOD:

Dr.G.Sreeramulu Mahesh

Email id: hodeee@gsss.edu.in Email id: hodeee@gsss.edu.in

Contact No.: 8722031159 Contact No.: 9980147498

DECLARATION

(From Project Students)

We, the project team hereby declare that the details enclosed in the project proposal (Title

of the Project: Pesticide Sprinker with IOT based Security. Branch: Electrical & Electronics

Engineering. College:GSSSIETW Mysore are true and correct to the best of our

knowledge and belief and we undertake to inform KSCST of any changes there in the

project title, students name will be intimated immediately through project guide. In case

any of the above information is found to be false or untrue or misleading, we are aware

that we may be held liable for it. We hereby authorize sharing of the project information

with this project proposal with the Karnataka State Council for Science and Technology,

Bangaluru.

We are aware that the project team must exhibit / demonstrate the project in the nodal

centre and interact regarding project with the experts and to exhibit the project in the State

Level Seminar and Exhibition (if selected). If the student team fails to attend the evaluation

in nodal centre or fails to attend the State Level Seminar and Exhibition, the supported

project amount will be returned to KSCST.

We also hereby, enclose the endorsement form to KSCST, Bengaluru.

Name of the students with USN No.

Signature with date

1. BHOOMIKA C P

(4GW19EE005)

2. PRAKRUTHI K N

(4GW19EE026)

3. RAKSHITHA G

(4GW19EE030)

4. VIDYASHREE K

(4GW19EE041)

Mrs. Shilpashri V N

(Name & Signature of Project Guide with Seal)

Email id: shilpashri@gsss.edu.in

Contact No.:8722031159

Dr.G Sreeramulu Mahesh (Name & Signature of HOD with Seal)

Email id: hodee@gsss.edu.in

Contact No.: 9980147498

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ENDORSEMENT

(From College, endorsement to be taken in the institution / Department Letter head)

(To scan this page and enclose in the project proposal)

This is to certify that 1) Ms. Bhoomika C P, 2) Ms. Prakruthi K N, 3) Ms. Rakshitha G, 4) Ms. Vidyashree K are bonafide student(s) of Department of Electrical & Electonics Engineering, in the degree program of our institution. If the project proposal submitted by these students under the 46th series of Student Project Programme is selected by KSCST, we will provide the requisite laboratory / Computer / infrastructure support in our college / Institution. Further we also take necessary steps to see that the project team will exhibit / demonstrate their project in the nodal centre and in the State Level Seminar and Exhibition (if selected). If the student team fails to send the completed project report or fails to attend the evaluation in nodal centre or fails to attend the State Level Seminar and Exhibition, the supported project amount will be returned to KSCST.

Mrs. Shilpashri V N

Dr.G.Sreeramulu Mahesh

Dr.M Shivakumar

(Name & Signature of **Project Guide with Seal)** (Signature of HOD with Seal)

(Signature of the Principal with Seal)

Email in:

Email id:

Email id:

shilpashri@gsss.edu.in

hodee@gsss.edu.in

principal@gsss.edi.in

Contact No.: 8722031159

Contact No.:9980147498

Contact No.:98333406214

DETAILS OF PROCESSING FEES MADE THROUGH NEFT / UPI PAYMENT

(**Note:** Include this page in the softcopy of the student project proposal. The student team shall furnish the details in the Google Form. It is informed to the students to 1) keep ready the softcopy of the project proposal and other documents and 2) Furnish the payment made details as processing fees and 3) update the details in the Google Form on the same day of payment made to KSCST by NEFT / UPI payment).

1. TITLE OF THE PROJECT	:	Pesticide Sprinkler with IOT based Security
2. NAME OF THE TEAM LEADER	:	Rakshitha G
3. EMAIL ID	:	rakshitharakshi218@gmail.com
4. CONTACT MOBILE NO.	:	6363498778

PAYMENT MADE DETAILS

5. BANK REF. NO. / UTR NO. / UPI No. (12 digits)	:	000394063218
6. TRANSACTION ID	:	000394063218
7. NAME OF THE SENDER / ACCOUNT HOLDER and CONTACT NUMBER	:	Principal,GSSSIETW
8. NAME OF THE BANK	:	CANARA BANK
9. PROCESSING FEES	:	Rs. 1000/-
10. DATE OF PAYMENT MADE		31-01-2023
11.TIME		12:02:44
12. MODE OF PAYMENT MADE (NEFT / UPI, PLEASE SPECIFY)		Funds Transfer Debit – KARNATAKA STATE COUNCIL FOR SCIENCE: Cheque

Rakshitha G

(Name & Signature of the team leader)

Dr.G.Sreeramulu Mahesh

(Name & Signature of Project Guide or HOD with Seal)

KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science campus, Bengaluru

46th SERIES OF STUDENT PROJECT PROGRAMME (SPP)

(Note: This page is for information about bank details of KSCST to the student team and college / institution and not to include this page in the project proposal softcopy)

BANK ACCOUNT DETAILS OF KSCST

Name and address of the Institution	Karnataka State Council for Science and Technology, IISc Campus, Bangalore -560012		
Account holder's name / Designation	Secretary, Karnataka State Council for Science and Technology		
Bank Account No. & Name of the bank	Current A/C No. 0683201000024 Canara Bank, IISc Campus Branch, Bangalore-560012		
IFSC Code	CNRB0000683		
MICR Code	560015023		
Bank Branch Address	Canara Bank, Indian Institute of Science, Bangalore-560012		

BANK DETAILS

Karnataka State Council for Science and Technology IISc Campus, Bangalore - 560012		
Secretary, Karnataka State Council for Science and Technology		
Current A/C No. 0683201000024 Canara Bank IISc Campus Branch		
Bangalore-560012		
CNRB0000683		
560015023		
Canara Bank Indian Institute of Science Bangalore-560012		

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