

Visvesvaraya Technological University "JnanaSangama" Belagavi: 590018 Karnataka, India.

Tele: 0831-2498225 ,2405454

VTU Sponsored Student Project Proposal Format

01	Academic Year:	2020-2021		
02	Semester:	8th		
03	Name of the College:	SRI SAIRAM C	OLLEGE OF ENGINEERING,	
		ANEKAL		
04	Branch:	MECHANICAL	_	
05	Project Title:	DESIGN AND F	FABRICATION OF SESAME	
		PEELING MACH	HINE	
06	Project Discipline:	Agriculture		
07	Principal	Name:	Dr. B. SHADAKSHARAPPA	
	_	Contact No:	9900545101	
		Email id:	principal@saiíamce.edu.in	
08	HOD	Name:	Prof. BALAJI V	
		Contact No:	9886249811	
		Email id:	hod.mech@saiíamce.edu.in	
09	Project Guide	Name:	Prof. BALAJI V	
		Contact No:	9886249811	
		Email id:	balaji.mech@saiíamce.edu.in	
10	Project Co-Guide(If any)	Name:	NA	
		Contact No:		
		Email id:		
11	Project Committee	Name:	Mr. Harish Babu L	
	coordinator	Contact No:	9036527118	
	(Identified by the college):	Email id:	harishbabu.mech@sairamce.edu.in	

Name of project group Members

1.Group leader and Member

Name: KAPIL SINGH BISHT

USN No.: 1SB17ME020 Contact No: 6360859407

Email id: sce17me037@sairamtap.edu.in



2.Member

12

Name: KAILAS JAYA KUMAR

USN No.: 1SB17ME018 Contact No: 7676831068

Email id: sce17me059@sairamtap.edu.in



3.Member

Name: KARTHIK NAGANATH

USN No.: 1SB17ME021 Contact No: 8553901865

Email id: sce17me049@sairamtap.edu.in



4.Member

Name: CG OMPRAKASH

USN No.: 1SB17ME007 Contact No:7892941002

Email id: sce17me023@sairamtap.edu.in



13	Scope / Objectives of the project:	Design and fabrication of sesame peeling machine which can peel sesame seeds from sesame plants without any help oh human labor. The process will be fully automatic and machine will be compact in size so that it can be easily movable.
14	Methodology of work: (Including diagram, flow chart and design calculations)	1. THRESHING Threshing is the process of loosening the edible part of grain (or other crop) from the straw to which it is attached. It is the step in grain preparation after reaping. Threshing does not remove the bran from the grain. Threshing may be done by beating the grain using a flail on a threshing floor. 2. VIBRATION SIEVING In vibrational sieving, the sample is submitted to three dimensional movements. A circular movement superimposes a vertical throwing motion. This mechanism causes the particles to be uniformly distributed across the entire sieving surface and to be thrown into the air where they ideally change their orientation in a way that enables them to be compared to the sieve apertures in all probable dimensions.

15	Expected Outcome of the project:	Labor and time will be reduced for the harvesting of the sesame crops. The machine will be compact in size making it movable from one place to another.
16	Application of the project :	Farmers who are involved in sesame harvesting activities will get huge benefit from our project as it is compact in size, requires less investment and saves time and labor
17	Budget details with Materials required:	 Cost of electrical components = 4,000 INR 1 HP Motor = 3,500 INR Switch Box with Wiring = 500 INR Cost of mechanical components = 7,100 INR Belt = 800 INR Pulley = 300 INR Pulley = 300 INR Slider Mechanism = 1,000 INR Raw Material (Sheet Metal and Structural Parts) = 5,000 INR Fabrication = 8,000INR Other Material Cost and Miscellaneous = 5,000 INR Total estimated cost of project = 24,100 INR
18	Date of commencemen	nt of the Project : First week of march
19	Probable date of comp	eletion of the project : Last week of july

20	Duration of project work:	5 months
21	Pert chart for completion of the project in said	l duration as per

Planned Activities

Sl.No	Activities Planned	1 Month/ Week	2 Month/ Week	3 Month/ Week	4 Month/ Week	5 Month/ Week	6 Month/ Week
01	Literature review	March 1 st week	WCCK	WCCK	WCCK	WCCK	WCCK
02	Planning/ Designing		April 2 nd week				
03	Assembly/ Fabrication work			July 2 nd week			
04	Final Testing				July 3 rd week		
05	Result & Calculation/ Conclusion					July 4 th week	
06	Preparation of Report & Submission						July 4 th week

DECLARATION BY THE STUDENTS

We, the project group members hereby declare that the details enclosed in the project proposal are true and correct to the best of our knowledge. We undertake to inform VTU, of any changes there in the project title, students name will be intimated immediately. 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.

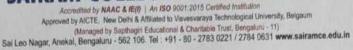
We are aware that the project group has to exhibit / demonstrate the project for evaluation in the VTU Regional centre and for exhibition at VTU, Belagavi. If the project group fails to attend the evaluation in Regional centre and for Exhibition in VTU Belagavi, the sponsored project amount will be returned back to VTU immediately

We also hereby, enclose the endorsement form to VTU, Belagavi.

SL.No	Name of the Student	Signature with date
01	KAPIL SINGH BISHT	Van
02	KAILAS JAYA KUMAR	Majo 01/04/2021
03	KARTHIK NAGANATH	No.
04	C G OMPRAKASH	Gorgan



SAIRAM COLLEGE OF ENGINEERING





ENDORSEMENT

This is to certify that

- 1] KAPIL SINGH BISHT
- 2] KAILAS JAYAKUMAR
- 3]KARTHIK NAGANATH
- 4]CGOMPRAKASH

Are bonafide students of Department of Mechanical Engineering in of our institution. If the project proposal submitted by these students under VTU Sponsored Student Project Proposal is selected by VTU, we will provide the required laboratory/Computer/infrastructure support in our college/Institution. Further we also take necessary steps that the project group will exhibit / demonstrate their project in the regional centre and for exhibition at VTU, Belagavi. If the student group fails to attend the evaluation in regional centre and exhibition at VTU Belagavi, the supported project amount will be returned back to VTU immediately.

Signature of Project Guide with date	Signature of HOD with Seal and date	Signature of Principal with seal and date
10 Web 5/3/2021	10 alg 1 3/21 2021	Indalesty
Prof. Balaji V	Prof. Balaji V	Dr. B. Shadaksharappa

Head of the Department
Dept. of Mechanical Engineering
Sri Sairam College of Engineering
Anekal, Bengaluru - 562 106.

PRINCIPAL Sri Sairam College Of Engineering Sai Leo Nagar, Guddanahalli Post, Anekal, Bengaluru - 562 106







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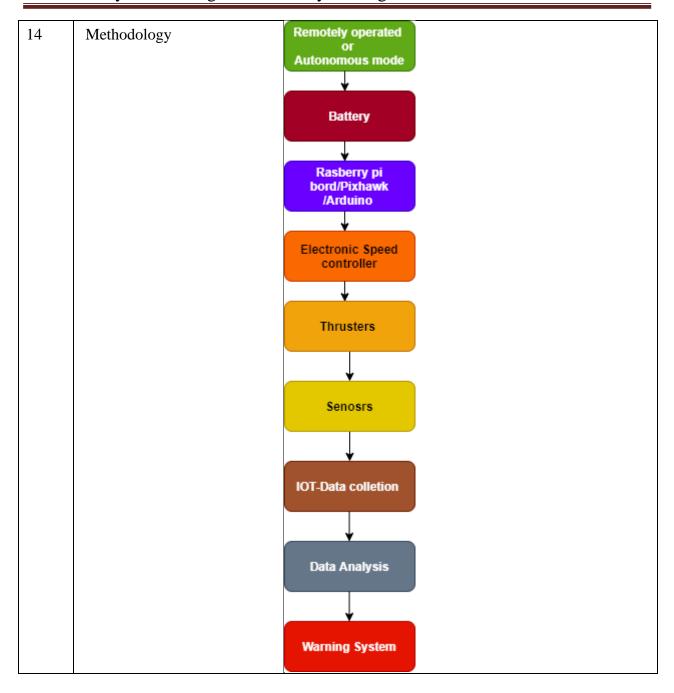
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01	Academic Year:	2020-2021			
02	Semester:	8 th			
03	Name of the College:	SRI SAIRAM C	OLLEGE OF ENGINEERING		
04	Branch:	Mechanical engi	neering		
05	Project Title:		FABRICATION OF SMART SURFACE AQUACULTURE		
06	Project Discipline:	AQUACULTUR	RE		
07	Principal	Name:	Dr. B SHADAKSHARAPPA		
		Contact No:	9900545101		
		Email id:	principal@sairamce.edu.in		
08	HOD	Name:	Prof. BALAJI. V		
		Contact No:	9886249811		
		Email id:	hod.mech@sairamce.edu.in		
09	Project Guide	Name:	Prof. MUTHUVEL. A		
		Contact No:	8667059309		
		Email id:	muthuvel.mech@sairamce.edu.in		
10	Project Co-Guide (If any)	Name:	NA		
		Contact No:			
		Email id:			
11	Project Committee	Name:	Mr. Harish Babu L		
	coordinator	Contact No:	9036527118		
	(Identified by the college):	Email id:	Harishbabu.mech@sairamce.edu.in		

12	Name of project group Members			
	1.Group leader and Member			
	Name: M RAJA			
	USN No. :1SB16ME037			
	Contact No:9066999420			
	Email id: mraja9855@gmail.c	om		
	2.Member			
	Name:SANKETH GANESH I	REVANKAR		
	USN No. :1SB15ME089			
	Contact No:8861877326			
	Email id: sankethgr7@gmail.c	com		
	3.Member			
	Name: K . AATISH PATNAI	K		
	USN No. :1SB15ME037 Contact No:8109615593			
	Email id: sce15me069@sairan	ntap.edu.in		
	4.Member			
	Name: THILAK B R			
	USN No. :1SB16ME089			
	Contact No:8431633854			
	Email id: thilakbr8431@gmail			
13	Scope / Objectives of the	Shrimp Industry - Volume Reached 0.67 million ton in 2018 and		
	project:	will reach 1.13 Million tons by 2024. Oil & Gas -Expectedhold		
		maximum share on ROV market and Valuation of USD 1,477.3		
		Million by 2023. Global ROV market is set to scale valuation of		
		USD 3,127.7 Million by the end of 2023. Farmers are losing		
		about 60 of their investment due to these diseases in every crop		
		in the season due to major diseases and improper water quality		
		management systems in India. Proper monitoring systems,		
		emergency responding and information providing systems to the		
		farmers are not there in India. Shrimp feeding and medicine		
		industries spending lot of moneys for their employees to		
		monitoring and inspection of the shrimp ponds to check the		
		water quality. Due to these problems' farmers are facing		
		physiological as well as physical health problems. Around 800		
		to 900 USD losing by DO problem due to aerator		
		failures in shrimp farms. Spending 200 TO 250 USD for water		

quality monitoring (Ph & DO) by farmer or by the feeding companies in shrimp farms. Underwater inspection by the divers or physical inspection in the aquaculture farms. We are fabricating a smart surface vehicle for the aquaculture. This vehicle is capable of determining the ph level, dissolved oxygen, temperature and other environment parameter of the water. The surface vehicle is automated and can be controlled by the user through a remote. The collected data is obtained by the user through IOT. The vehicle is capable of being controlled by an app



15	Expected Outcome of the project:	 Remotely or Autonomous operated Surface vehicle for aquaculture monitoring Real time farm survey Increase the harvest for the farmers Reduce the work load to the farmers High profit Less maintenance cost 			
16	Application of the project:	 Fish Farming Shrimp Farming Mussel Farming Oyster Farming Crab Water quality monitoring Lake survey etc. 			
17	Budget details with	Sl . No	Description		Cost
	Materials required:	1	Fabrication cost		6000
		2	transportation		5000
		3	Testing cost		5000
		4	Materials required		40000
		5	Survey		20000
		6 7	Report Miscellaneous		5000 5000
		/	Miscenaneous	Tot	
	Date of commencement of	the Project:	:	1 st Jan 202	
19	Probable date of completion of the project:			30 th July 20	021
20	Duration of project work:	ration of project work:			
21	Pert chart for completion of	f the project	in said duration as p	er	

planned activities:

Sl.No	Activities Planned Months	Jan 2021	Feb 2021	Mar 2021	April 2021	May 2021	June 2021
01	Literature review						
02	Planning/ Designing						
03	Assembly/ Fabrication work						
04	Final Testing						
05	Result & Calculation/Conclusion						
06	Preparation of Report & Submission						

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Sl. No	Name of the Student	Signature with date
01	M RAJA	*
02	SANKETH GANESH REVANKAR	
03	K AATISH PATNAIK	Statist
04	THILAK B R	Mhilak BR



SAIRAM COLLEGE OF ENGINEERING



Accredited by NAAC & IE(I) | An ISO 9001/2015 Certified institution
Approved by AICTE, New Delhi & Affiliated to Visvesvaraya Technological University, Belgaum
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ENDORSEMENT

This is to certify that

- 1] M RAJA
- 2] SANKETH GANESH REVANKAR
- 3]K AATISH PATNAIK
- 4]THILAK B R

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Signature of Project Guide with date	Signature of HOD with Seal and date	Signature of Principal with seal and date
A. My	Well 5/7/2021	hadaesking 12031
Prof. Muthuvel A	Prof. Balaji V	Dr. B Shadaksharappa

Head of the Department
Dept. of Mechanical Engineering
Sri Salram College of Engineering
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PRINCIPAL
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