

Microbial Analysis for food products and nutrient analysis for nutraceuticals	Dr.M.Thenmozhi	Biotech	2019	0.50	6 month	Nithiya Food and Nutraceuticals	Non Government
Development of an innovative nutraceutical fermented beverages from Ashwghanda extract	Dr P.Dhasarathan	Biotech	2018	0.07	6 month	TNSCST	Government
PMKVY	Dr.P.Dhasarathan/ Mr Ramesh/Mr. Ragavender/ Ms. Sornalatha	EEE/Mech/ CSE	2018	24.10	1 year	AICTE	Government
Vision 2020 App	Dr.S.PadmaPriya	CSE	2018	0.15	2 Months	iSpark Smart Solutions	Non Government
Entrepreneurship Awareness Camp (EAC)	Dr.Jayaraman	MECH	2018-2019	0.20	1 year	DST-NIMAT	Government
Automatic Sewage cleaning machinery	Mr. Meganathan	MECH	2018-2019	0.08	1 year	TNSCST	Government
Smart elephant monitoring system	Mrs. Shobana	EEE	2018-2019	0.08	1 year	TNSCST	Government

SPDC	Dr. Padmapriya	CSE	2018-2019	12.73	1 year	AICTE	Government
Microbial Analysis for							

# **1. Microbial analysis for food products and nutrient analysis for nutraceuticals**





**NITHYA FOODS PVT LTD**

**NF**

15, Koola Kadai Street,  
Tenkasi – 627 811  
Phone No. 04633-223378  
Email Id – vnktamil12@gmail.com

Dr.V.NITHYA KALYANI  
Proprietor

Date : 01.05.2018

To

**The Head,**  
Department of Biotechnology,  
**PRATHYUSHA ENGINEERING COLLEGE,**  
Chennai.

Sir,

In continuation of our telephonic order, I am happy that you are agreeing to provide microbial quality testing for our food products to get FISSAT approval in the name 'NITHYA FOODS PVT LTD'.

1. South Indian Sweet Boli
2. South Indian Coconut Boli
3. South Indian Kara Boli
4. Dal - Adai
5. Wheat Chappathi

As confirmed for analysis per rate Rs.10,000/- products and GST that covers microbial quality, nutritional quality and shelf life testing. For the quotation given for analysis and consultation fees Rs.54,540 /-an initial payment of Rs.50,000/- is sent. Kindly send receipt with GST

Thanking you,

*Vnktamil12*  
NITHYA FOODS PVT LTD



केनरा बैंक  Canara Bank

तेनकासी - 627811  
Tenkasi - 627811  
2016 MCHCE

Valid for three months only from the date of instrument

चाखा | CA 

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IFSC: CNRB0000961

Pay THE PRINCIPAL, PRATHYUSHA ENGINEERING COLLEGE, CHENNAI या धारक को Or Bearer

Rupees रुपये FIFTY THOUSAND ONLY

अदा करें

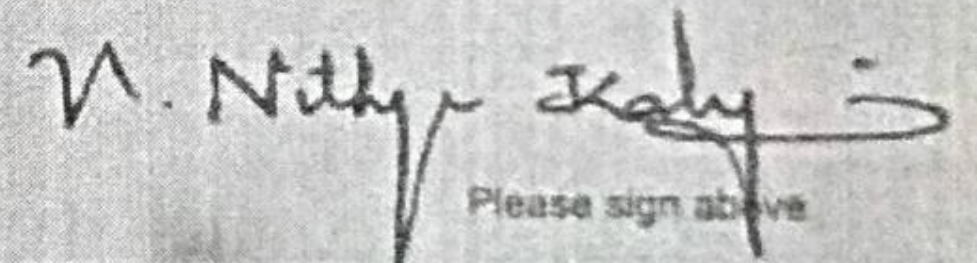
₹

50,000/-

खा. सं.  
A/c. No.

0961101054089

"Payable at par at all our Branches in India"

  
Please sign above

[NITHYA FOODS PVT LTD]

29

589354 6270150131



## REPORT

Title of the work: Microbial quality testing

Name of the Company: Nithya Foods Pvt Ltd., Tenkasi

Types of Sample: Food sample

No of Samples: 5

Work carried out: Microbiology Lab, Dept. of Biotechnology, PEC.

Report generated Date: 04.10.2019

### Summary of the work

The microbial load of the given samples were evaluated and tabulated for your references.

S. No.	Product	Microbial load CFU / gm	Selflife period	Protein (mg/g)	Lipid	Carbohydrate
1	PS1	$54 \times 10^2$	15	68	47	416
2	PS2	$34 \times 10^2$	7	75	60	352
3	PS3	$45 \times 10^2$	120	89	71	540
4	PS4	$62 \times 10^2$	90	122	89	350
5	PS5	$33 \times 10^2$	90	250	10	643



## STATEMENT OF EXPENDITURE

S. No.	Particulars	Quantity	Expenditure in rupees
1	Reagents	1000 ml	12000
2	Chemicals	2000 gms	8000
3	Analysing kit	10 no.s	14000
4	Microbial media	500 gms	6000
Total			40000
Institutional charges (Rs.)			10000
Service charges (Rs.)			4540
Net Total (Rs.)			54540

Total amount Fifty four thousand five hundred and forty rupees only (Rs. 54,540) utilized for Microbial quality analysis needed by Nithya foods Pvt. Ltd.,



Project incharge



HOD



**NF**

**NITHYA FOODS PVT LTD**

**NF**

15, KoolaKadai Street,  
Tenkasi – 627 811  
Phone No. 04633-223378  
Email Id – vnktamil12@gmail.com

Dr. V. NITHYA KALYANI  
Proprietor

Date: 10.10.2019

To

**The Head,**  
Department of Biotechnology,  
Prathyusha Engineering College,  
Chennai.

Sub: Acknowledgement letter for the Microbial quality test work – reg.

Sir,

We appreciate the work we collaborated for Microbial quality testing of 5 products for approval of FISSAT in the name of Nithya foods Pvt. Ltd., We are thankful for the consultancy service to register our product under our organization. The result is highly useful to improve the product quality.

Thanking you

*V. Nithya Kalyani*

(Dr. V. NITHYA KALYANI)



## **2. Development of an innovative nutraceutical fermented beverages from Ashwghanda extract**



**TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY**  
DOTE CAMPUS, CHENNAI - 600 025

**STUDENT PROJECT SCHEME 2018-2019**  
**UTILISATION CERTIFICATE**


(TWO COPIES)

1. Name of the guide and address : Dr. P.Dhasarathan  
Head of the Department  
Department of Biotechnology  
Prathyusha Engineering College  
Chennai – 602025
2. Name of the student(s) : BHAVADHARANI. R,  
DHARSHINI. G
3. Title of the project : Development of an innovative nutraceutical  
Fermented beverage from Ashwagandha
4. Project code : MS-046

It is certified that a sum of **Rs.7500/-** (Rupees Seven Thousand and Five Hundred only) Sanctioned by the council for carrying out above mentioned student project has been utilized for the purpose for which it was sanctioned and sum of Rs. Zero (Nil) remaining unutilized is refunded.

  
Signature of the guide

  
Signature of the HOD

  
Signature of the  
REGISTRAR/PRINCIPAL/DEAN  
With SEAL



# DEVELOPMENT OF AN INNOVATIVE NUTRACEUTICAL FERMENTED BEVERAGE FROM ASHWAGANDHA

R. BHAVADHARANI, G. DHARSHINI and P. DHASARATHAN

Department of Biotechnology, Prathyusha  
Engineering college, Chennai - 602025

## Abstract

Ashwagandha (*Withania somnifera*) is an important medicinal plant that has been used in ayurvedic and indigenous medicine since ancient time. This herb is used for various kinds of diseases and especially as a nervine tonic. The aim of this work is to develop an nutraceutical and fermented beverage using ashwagandha extract as a natural source. *Lactobacillus acidophilus* strain was selected as best source of fermentation, which is positively affected by the addition of sugarcane molasses and yeast extract as carbohydrate substrate. From the fermented product, the final pH was found to be 4.36 with the acidity of 2.1 mL 0.1 N NaOH and the bitterness of 12.8 IBU (International Bitterness Units) and 7.07% of alcohol and 1.52 mg/mL of reducing sugar and the 106 CFU of total bacterial count were analysed and determined. Thus, the ashwagandha have 54% of antioxidant activity which was analysed by the method, FRAP (Ferric Reducing Antioxidant Power Assay). Atlast the fermented beverage was attained.

## Introduction

*Withania sonifera*, know commonly as ashwagandha, indian ginseng, poison gooseberry or winter cherry is a plant in the solanaceae or nightshade family. Several the species in the genus withania are morphological similar. Although commonly used as a medicinal herb in ayurvedic medicine, there is no conclusive cilinical evidence that it is effective for treating any aliment. From this current study, we had been planned to develop a nutraceutical fermented beverage from ashwagandha as a main ingredients.

## Objective

The selected herbs *Withania sonifera* was choosen for fermentation with the selected lactic acid bacteria. To increase the nutrition content level in fermented beverage from available substrate. The final nutraceutical fermented beverage was separated and analyzed for antioxidant activity.

## Materials and Methods

The raw materials were collected for fermented beverage. The Ashwagandha extract were prepared from the root. The broth for fermentation were made with 1000ml of ashwagandha root extract, added of sugarcane molasses as a carbon source and yeast extract as a nitrogen source in proportion of 42.5g and 5g was respectively. Saccharification test was carried out. Extracellular product was extracted with the help of selected microorganism *Lactobacillus acidophilus*. Oxidative fermentative test was carried out. Further botteling and pasteurization of the beverage was carried out. Paramaters were evaluated for the fermented beverages.



### **Working**

The beverage was analyzed for reducing sugar, Antioxidant content and Shelf life of the drink. Further it was characterized with the help of GC-MS.

### **Result**

Ashwagandha extract is done at 450 c for 30 mins and filter with watmen filter paper. The yeast extract and sugarcane molasses use to carbohydrate substrate for lactic acid bacteria(*Lactobacillus acidophilus*). *Lactobacillus acidophilus* is gram positive bacteria and most commenly found in gastrointestinal tract of human and animal. The carbohydrate substrate was formulated with ashwagandha extract. After that the formulated extract was innoculated into fermentor for 24 hours. During the fermentation process different type of parameter such as water analysis, beverage analysis, bioactive compount activity(antioxidant activity), bacterial count, and observed the shelflife of product. From the water analysis headness, chlorides, alkalinity were checked followed by beverage analysis Ph, colour, bitterness, alcohol content, acidity, bactreial count were obversed. After that antioxidant activity was obseversed as a 69%.finally the fermented product was obtained with healthy and proper nutritional level.

### **Conclusion**

From this study we developed nutraceutical fermented beverage using Ashwagandha as a main source followed by lactic acid bacteria (*Lactobacillus acidophilus*) and carbohydrate substrate.

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Guide: Dr. P.Dhasarathan, Associate Professor, Department of Biotechnology, Prathyusha Engineering College, Chennai – 602025

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**TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY**  
**DOTE CAMPUS, CHENNAI-600025**

**APPROVED LIST OF STUDENT PROJECTS 2018-2019**  
**SCIENCE STREAM**

**AGRICULTURAL SCIENCES**

No.	Guide Name & Address	Title of the Project	Student(s) Name	Code	Amt. Rs.
001	S.Kalaivani Assistant Professor Shri sakthikailash Women's College Salem-636003	Biological control of leafminer (Aporacrem amodicella L.) in groundnut field against chitinase producing microorganism from soil	A Athira	AS-001	7500/-
002	Dr D Arulbalachandran Assistant Professor Dept. of Botany Periyar University Salem- 636011	Screening of drought tolerance rice genotypes in varied arid regions of western Tamilnadu	M Ramya P shanumuga Priya V Sivaranjani	AS-002	7500/-
003	B Narenthiran Dept. of Mech. Engg. Karpagam Academy of Hr.Educaton Coimbatore - 641021	Design and fabrication of water filter using CNT/AGNW	P Ramkumar M Giri raja M Manikandan S Vinith Kumar	AS-003	7500/-
004	Dr. G. Ayyappadasan Assistant Professor Dept. of Biotechnology KS Rangasamy college of Technology Namakkal-637251	Design and development of sprouted multi chamber for the formulation protein rich powder as a ready to serve for adolescent girls	Ramya. S	AS-004	7500/-
005	Dr R Selvakumar Associate Professor Dept. of CSE Adhi College of Engg. And Tech Kancheepuram - 631305	iABIG: improved agriculture - best innovation for generations	N Kala G Geetha M Punitha E saranya	AS-005	7500/-
006	Dr R Durai singh Professor Regional Research Station Aruppukottai-626107	Evaluation of planting methods and weed management practices in SRI raised under puddled and un - puddled field conditions	Nandhini Y	AS-006	7500/-
007	Dr K Chinnusamy Professor, Dept. of ECE Velammal Inst. Of Technology Panchetti-601204 Thiruvallur Dt.	Farmer to customer e-trade	B Ganasankari N R Abarna M Muthu Manjula	AS-007	7500/-
008	Dr. A. Joshi and Palaniraj. A Professor Dept. of Informtion Technology Panimalar Institute of Technology Chennai-600123	Farmers toy	Antony Dhanapaul. V Anand. B Cesho Jephil. A Bhuvanesh. M	AS-008	7500/-
009	Dr K S K Sasikumar Associate Professor Dept. of Mechanical Engineering Kongu Engineering College Perundurai-638052	Design and development of coconut leaflet midrib separator	M.Gokulnath P Jagan S Gowthaman	AS-009	7500/-



231	A Muthu Kumara Pandian Assistant Professor Dept. of Biotechnology Vivekananda College of Engineering for women, Tiruchengode - 637205	Production of bioplastic from Prosopis juliflora	Raveena S Shree Yazhini V Keerthana V	MS-040	7500/-
232	R Baskar Associate Professor Dept. of Biotechnology Kumaraguru College of Technology Coimbatore - 641049	Evaluation of pharmacological activities of Eleocarpustectorius: A promising untapped fruit endemic to western ghats	Aruna M	MS-041	7500/-
233	J Vinoth Arulraj Assistant Professor Dept. of Biotechnology Arunai Engineering College Thiruvannamalai - 606603	Production of bio-degradable plastic from vegetable waste with increased tensile strength	K Suriyalakshmi	MS-042	7500/-
234	S Manibalan Assistant Professor Dept. of Biotechnology Kamaraj College of Engineering and Technology, Virudhunagar - 625701	Herbal based medicated suture formulation and characterization for anterior cruciate ligament (ACL) surgery	Varshini M Soniya K	MS-043	7500/-
235	G Babu Assistant Professor(Gr I) Dept. of ECE R.M.K Engineering College Kavaraipettai - 601206	DNA microarray spot finder for memory loss detection	Hem Kumar Rao R Charan Kumar S K Aakash P	MS-044	7500/-
236	V Karthikeyan Professor and HOD Dept. of Biotechnology Karpaga Vinayaga College of Engineering and Technology Chinna Kolambakkam - 603308	Studies of the health status and immunological survey of tribal population in Kanchipuram district	S Divya	MS-045	7500/-
237	P Dhasarathan Head of the Dept. Dept. of Biotechynology Prathyusha Engineering College Chennai - 602025	Development of an innovative nutraceutical fermented beverage from Ashwaghanda extract	Bhavadharani R Dharshini G	MS-046	7500/-
238	P Azhagu Saravana Babu Assistant Professor Dept. of Biotechnology Sree Sastha Institute of Engineering aqnd Technology Chennai - 600123	Biopolymer infused artificial taste recognition system for impaired children	L Bennett Henzeler Esakialraj	MS-047	7500/-
239	J Ranjith Mariyal Assistant Professor Dept. of Bio medical Salem College of Engineering and Technology, Salem-636111	Third eye with fall detection for visually impaired people	S Deepa M K Dwaraka L Priyadarsini M Sharmila	MS-048	7500/-
240	Mr.V.Boopaalan Assistant Professor Dept. of Biomedical Engineering Mahendra College of Engineering, Minnampalli Salem-636106	Sputtering of HAP nanoparticle in dental implant to improve osseointegration	S.Murugan M.Vijay J.Pugazhenth S.Indrakumar	MS-049	7500/-



### **3. PMKVY**



The Drawing & Disbursing Officer  
All India Council for Technical Education  
Nelson Mandela Marg, Vasant Kunj,  
New Delhi - 110 070.

**Subject: Release of 1st instalment of Grant-in-Aid for the academic year 2018-19 to Prathyusha Engineering College, Thiruvallur, Tamil Nadu under the Pradhan Mantri Kaushal Vikas Yojana for Technical Institutes (PMKVY-TI) during the financial year 2019-20.**

Sir,

I am directed to convey the sanction of the Council for payment of Rs. 794250/- (Rupees Seven Lakh Ninety Four Thousand Two Hundred Fifty only) towards PMKVY-TI Scheme to Prathyusha Engineering College, Thiruvallur, Tamil Nadu for 1<sup>st</sup> instalment of the grant (30% of the cost) for Rs. 2647500/- released in the FY 2019-20 subject to the following conditions:

1. The amount of the grant shall be drawn by the Drawing and Disbursing Officer, All India Council for Technical Education on the grant-in-aid bill and shall be disbursed to and credited to Prathyusha Engineering College, Thiruvallur, Tamil Nadu through electronic fund transfer.
2. The accounts of the Institute are liable to be audited by the Council or Comptroller and Auditor General of India or by any officer designated for the purpose.
3. Separate account for the purpose to be maintained by the institute.
4. The Utilization Certificate 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 All India Council for Technical Education as early as possible after the close of the current financial year (Format is enclosed at Appendix-A).
5. Expenditure may be incurred under following head for the scheme.

S.No	Name of the Course	Specialization	No of Students Approved	No. of student Enroll	No. of Students approved as per minimum qualification by NSDC	Total no. of hours	Rate* (Rs)	Cost (No. of Hrs x Rate) in Rs.	Amount of Grant's 1st Installment now to be released (in Rs)
1	Construction	Assistant Electrician	50	25	25	400	42.5	425000	127500
2	Construction	Assistant Electrician	50	25	25	400	42.5	425000	127500
3	Automotive	Automotive Service Technician - Two & Three	25	25	25	400	42.5	425000	127500
4	IT/ITeS	Domestic Data entry Operator	50	25	25	400	36.75	367500	110250
5	IT/ITeS	Domestic Data entry Operator	50	25	25	400	36.75	367500	110250
6	Electronics	Field Technician - Computing and Peripherals	50	25	25	300	42.5	318750	95625
7	Electronics	Field Technician - Computing and Peripherals	50	25	25	300	42.5	318750	95625
<b>Total Cost</b>								<b>2647500</b>	<b>794250</b>



6. The sanctioned grant-in-aid is debitable to **Grants-in-Aid (AICTE internal Resource Funds - Non Plan Scheme)**:

602.20(a)	General	Rs. 512355/-
602.20(b)	SC	Rs. 276795/-
602.20(c)	ST	Rs. 5100/-
Total		Rs. 794250/-

7. The assets acquired wholly or substantially out of All India Council for Technical Education's grants shall not be disposed off encumbered or utilized for the purposes other than those for which the grant was given, without proper sanction of the All India Council for Technical Education and should, at any time the Institution ceased to function, such assets revert to the All India Council for Technical Education.
8. The College/Institute shall maintain an audited record of assets acquired wholly or substantially out of the grant and a register of assets shall be maintained by the Institute in the prescribed form, i.e. GFR-19.
9. The College/Institute shall fully implement the official Language Policy of Union Govt. and comply with the official Language Act, 1963 and Official Languages (use for official purposes of the Union) Rules, 1976 etc.
10. The institute will ensure the eligibility criteria of the students as per the NSDC Norms.
11. The funds to the extent are available under the scheme.
12. The stamped receipt for the amount sanctioned may be sent by return of post.
13. Utilization Certificate for the sanctioned amount to be submitted before release of 2<sup>nd</sup> installment.
14. If the Institution has charged any caution money, the same to be reported in the income & expenditure statement.
15. The Institute shall run training for each job role as prescribed by respective sector skill council.
16. Balance funds will be released as per the provision under the Guidelines of the Scheme
17. The institute found violating the above-described conditions, will not be given any grant by AICTE.
18. Interest on the sanctioned grant will be treated as part of the grant-in-aid and shall be used for the Project purpose only and the same shall be mentioned in the audited statement of accounts.
19. Project sanctioned by AICTE is assigned a specific Reference No. given on the pre-page. All correspondences related to the project must contain this number with year of sanction of the project failing which correspondence will not be entertained.
20. The Institute/Polytechnic shall not charge any overheads on this project and will provide all the administrative support for completion of the project.
21. The grantee shall utilize grants on only approved items of expenditure. However in case the grantee wishes to recast the project, approval of the Council must be obtained for the revised item of expenditure and they will maintain proper accounts of the expenditure as per the norms/procedures of AICTE/Government of India.
22. The Annual Progress Report in the prescribed format along with Statement of Expenditure and Audited Utilization Certificate shall be submitted to AICTE not later than one month after completion.
23. Project Completion Report (PCR) in the prescribed format along with the Audited Statement of Expenditure indicating expenditure incurred in the total duration of the project in the prescribed format, Utilization in the format and GFR-19 shall be submitted to the Council.
24. The Utilization Certificate (UC) supported by Audited Statement of Expenditure to the effect that the grant has been fully utilized for the purpose it has been sanctioned shall be furnished to the AICTE immediately after completion of the project. It should contain the head-wise breakup of the expenditure made from the grant-in-aid.
25. The sanction issues in exercise of the powers delegated to the Council. It is also certified that grant-in-aid is being released in conformity with the Rules and Regulation of the Scheme.

Yours faithfully,

(Lt.Col.Kailash Bansal)  
Director (SD Cell)

**Forwarded for information and necessary action to:**

- **Principal**  
Prathyusha Engineering College, Thiruvallur, Tamil Nadu
- Office of Director General of Audit, Central Revenues,  
AGCR Building, I.P. Estate, New Delhi
- Principal Secretary, Higher/Technical Education
- Office Copy





ESTD. 2001

# PRATHYUSHA ENGINEERING COLLEGE

Approved by AICTE & Affiliated to Anna University, NAAC Accredited "A" Grade, National Board of Accreditation (NBA) Institution

24.02.2021

To

**Prof. Ruchika Kem**

Assistant Director

Skill Development Cell, AICTE

Nelson Mandela Marg, Vasant Kunj

New Delhi – 110 070.

**Respected Sir**

**Sub:** Requesting for releasing next installment for PMKVY-TI – Reg.

I bring to your kind attention that our institute PMKVY Batch 2018 – 2019 (Application No.: **1-3511384485**, Permanent ID: **1-16570211**) the below mentioned batched has completed the courses and placed in reputed companies. Herewith I have attached the placement details of the batch specified. So kindly release the 3<sup>rd</sup> and 4<sup>th</sup> installment as early as possible.

Course	ID
Domestic data entry operators (2 batch)	1-4112995256 & 1-4113187741
Computer peripherals and field technician (2 batch)	1-4112995254 & 1-4113187844
Automotive service technician (two and three wheelers) level 4	1-4112995258
Assistant electrician (2 batch)	1- 4113187846 & 1-4112995251

**Thanking You**



**PRINCIPAL**

**Encl:**

Placement details of the batch 2018 – 2019 of all batches

**PRINCIPAL**  
PRATHYUSHA ENGINEERING COLLEGE  
Poonamallee - Tiruvallur District  
Aranvoyaluppam, Tiruvallur



1	Kamesh	6/30/1999	1	Lakshmanan	4/11/1997
2	Poornima	3/1/2002	2	Krishna Moorthi	6/6/1995
3	Paranthaman	7/18/1997	3	Abinash Kumar	18/07/2000
4	Tamilvanan	10/5/1993	4	Suganya	22/09/1993
5	Manikandan	5/13/2000	5	Tamilarasi	20/02/1987
6	Sampathkumar	5/7/1995	6	Manju	24/04/1997
7	Adithya	10/10/1998	7	Radha	22/04/1997
8	Arun	5/3/1992	8	Suganya	15/08/1992
9	Vijai	11/16/2017	9	Chitra	5/6/1997
10	Balaji	12/2/1997	10	Sunantha	3/2/1999
11	Premkumar	4/28/1994	11	Subash	27/06/1997
12	Rajesh	4/29/1999	12	Manjula	5/1/1999
13	Muralidharan	3/25/2001	13	Praveen Kumar	1/12/1999
14	Viswanath	4/11/1986	14	Sarala	10/5/1980
15	Sukumar	5/29/1986	15	Ammu	17/06/1998
16	Sridhar	7/5/2000	16	AjithKumar	22/06/1997
17	Dharshini	7/2/2002	17	Ezhilarasan	9/3/1991
18	Chowdry	10/10/2000	18	Viveka	30/01/2001
19	Surendhiran	4/16/1999	19	AmuiPriya	10/5/1990
20	Aswini	3/7/1999	20	Nivetha	9/4/2000
21	Amul	12/6/1996	21	Gowri	7/3/1998
22	Vinothan	8/6/1986	22	Manju	28/11/1998
23	Harish Antony	22/10/1997	23	Bhuvanesh	18/06/1994
24	Rajkumar	27/02/1996	24	Arputharaj	4/6/1994
25	Ramesh	20/07/1999	25	YuvaRani	31/05/2000



eripherals

S.no	Days	Date	Hrs	Week
4	SAT	16-Dec	9	
5	SUN	17-Dec	9	1
6	FRI	22-Dec	9	
7	SAT	23-Dec	9	
8	SUN	24-Dec	9	2
9	FRI	29-Dec	9	
10	SAT	30-Dec	9	
11	SUN	31-Dec	9	3
12	FRI	05-Jan	9	
13	SAT	06-Jan	9	
14	SUN	07-Jan	9	4
15	FRI	19-Jan	9	
16	SAT	20-Jan	9	
17	SUN	21-Jan	9	5
19	SAT	27-Jan	9	
20	SUN	28-Jan	9	6
21	FRI	02-Feb	9	
22	SAT	03-Feb	9	
23	SUN	04-Feb	9	7
			<b>171</b>	

			171	
24	FRI	09-Feb	9	
25	SAT	10-Feb	9	
26	SUN	11-Feb	9	8
27	FRI	16-Feb	9	
28	SAT	17-Feb	9	
29	SUN	18-Feb	9	9
30	FRI	23-Feb	9	
31	SAT	24-Feb	9	
32	SUN	25-Feb	9	10
33	FRI	02-Mar	9	
34	SAT	03-Mar	9	
35	SUN	04-Mar	9	11
36	FRI	09-Mar	9	
37	SAT	10-Mar	9	
38	SUN	11-Mar	9	12
39	SUN	<b>18-Mar</b>	<b>9</b>	13

**306**



# PMKVY

## ASST-Electrician Course Scheudle

S.no	Days	Date	Hrs	Week
1	SAT	09-Dec	9	
2	SUN	10-Dec	9	1
3	FRI	15-Dec	9	
4	SAT	16-Dec	9	
5	SUN	17-Dec	9	2
6	FRI	22-Dec	9	
7	SAT	23-Dec	9	
8	SUN	24-Dec	9	3
9	FRI	29-Dec	9	
10	SAT	30-Dec	9	
11	SUN	31-Dec	9	4
12	FRI	05-Jan	9	
13	SAT	06-Jan	9	
14	SUN	07-Jan	9	5
15	FRI	19-Jan	9	
16	SAT	20-Jan	9	
17	SUN	21-Jan	9	6
19	SAT	27-Jan	9	
20	SUN	28-Jan	9	7
21	FRI	02-Feb	9	
22	SAT	03-Feb	9	
23	SUN	04-Feb	9	8

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24	FRI	09-Feb	9	
25	SAT	10-Feb	9	
26	SUN	11-Feb	9	9
27	FRI	16-Feb	9	
28	SAT	17-Feb	9	
29	SUN	18-Feb	9	10
30	FRI	23-Feb	9	
31	SAT	24-Feb	9	
32	SUN	25-Feb	9	11
33	FRI	02-Mar	9	
34	SAT	03-Mar	9	
35	SUN	04-Mar	9	12
36	FRI	09-Mar	9	
37	SAT	10-Mar	9	
38	SUN	11-Mar	9	13
39	FRI	16-Mar	9	
40	SAT	17-Mar	9	
41	SUN	18-Mar	9	14
42	FRI	23-Mar	9	
43	SAT	24-Mar	9	
44	SUN	25-Mar	9	15
45	SAT	31-Mar	9	
46	SUN	01-Apr	9	16

405

F, 8 Feb 2018

6/2/18

16+1



## PMKVY

### ASST-Electrician Course Scheudle

S.no	Days	Date	Hrs	Week
1	SAT	09-Dec	9	
2	SUN	10-Dee	9	1
3	FRI	15-Dec	9	
4	SAT	16-Dec	9	
5	SUN	17-Dec	9	2
6	FRI	22-Dec	9	
7	SAT	23-Dec	9	
8	SUN	24-Dec	9	3
9	FRI	29-Dec	9	
10	SAT	30-Dec	9	
11	SUN	31-Dec	9	4
12	FRI	05-Jan	9	
13	SAT	06-Jan	9	
14	SUN	07-Jan	9	5
15	FRI	19-Jan	9	
16	SAT	20-Jan	9	
17	SUN	21-Jan	9	6
18	SAT	27-Jan	9	
19	SUN	28-Jan	9	7
20	FRI	02-Feb	9	
21	SAT	03-Feb	9	
22	SUN	04-Feb	9	8

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23	FRI	09-Feb	9	
24	SAT	10-Feb	9	
25	SUN	11-Feb	9	9
26	FRI	16-Feb	9	
27	SAT	17-Feb	9	
28	SUN	18-Feb	9	10
29	FRI	23-Feb	9	
30	SAT	24-Feb	9	
31	SUN	25-Feb	9	11
32	FRI	02-Mar	9	
33	SAT	03-Mar	9	
34	SUN	04-Mar	9	12
35	FRI	09-Mar	9	
36	SAT	10-Mar	9	
37	SUN	11-Mar	9	13
38	FRI	16-Mar	9	
39	SAT	17-Mar	9	
40	SUN	18-Mar	9	14
41	FRI	23-Mar	9	
42	SAT	24-Mar	9	
43	SUN	25-Mar	9	15
44	SAT	31-Mar	9	
45	SUN	01-Apr	9	16

405



# PMKVY

## Lab-Tech Course Scheudle

S.no	Days	Date	Hrs	Week
1	SAT	09-Dec	9	
2	SUN	10-Dee	9	1
3	FRI	15-Dec	9	
4	SAT	16-Dec	9	
5	SUN	17-Dec	9	2
6	FRI	22-Dec	9	
7	SAT	23-Dec	9	
8	SUN	24-Dec	9	3
9	FRI	29-Dec	9	
10	SAT	30-Dec	9	
11	SUN	31-Dec	9	4
12	FRI	05-Jan	9	
13	SAT	06-Jan	9	
14	SUN	07-Jan	9	5
15	FRI	19-Jan	9	
16	SAT	20-Jan	9	
17	SUN	21-Jan	9	6
19	SAT	27-Jan	9	
20	SUN	28-Jan	9	7
21	FRI	02-Feb	9	
22	SAT	03-Feb	9	
23	SUN	04-Feb	9	8
24	FRI	09-Feb	9	
25	SAT	10-Feb	9	
26	SUN	11-Feb	9	9
27	SUN	18-Feb	9	10



## PMKVY

### Data Entry Course Scheudle

No of Days	Days	Date	Hrs	Week
1	SAT	09-Dec	9	
2	SUN	10-Dee	9	1
3	FRI	15-Dec	9	
4	SAT	16-Dec	9	
5	SUN	17-Dec	9	2
6	FRI	22-Dec	9	
7	SAT	23-Dec	9	
8	SUN	24-Dec	9	3
9	FRI	29-Dec	9	
10	SAT	30-Dec	9	
11	SUN	31-Dec	9	4
12	FRI	05-Jan	9	
13	SAT	06-Jan	9	
14	SUN	07-Jan	9	5
15	FRI	19-Jan	9	
16	SAT	20-Jan	9	
17	SUN	21-Jan	9	6
18	SAT	27-Jan	9	
19	SUN	28-Jan	9	7
20	FRI	02-Feb	9	
21	SAT	03-Feb	9	
22	SUN	04-Feb	9	8

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23	FRI	09-Feb	9	
24	SAT	10-Feb	9	
25	SUN	11-Feb	9	9
26	FRI	16-Feb	9	
27	SAT	17-Feb	9	
28	SUN	18-Feb	9	10
29	FRI	23-Feb	9	
30	SAT	24-Feb	9	
31	SUN	25-Feb	9	11
32	FRI	02-Mar	9	
33	SAT	03-Mar	9	
34	SUN	04-Mar	9	12
35	FRI	09-Mar	9	
36	SAT	10-Mar	9	
37	SUN	11-Mar	9	13
38	FRI	16-Mar	9	
39	SAT	17-Mar	9	
40	SUN	18-Mar	9	14
41	FRI	23-Mar	9	
42	SAT	24-Mar	9	
43	SUN	25-Mar	9	15
44	SAT	31-Mar	9	
45	SUN	01-Apr	9	16
46	FRI	06-Apr	9	
47	SAT	07-Apr	9	
48	SUN	08-Apr	9	17
49	SUN	15-Apr	9	18

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## PMKVY

### Data Entry Course Scheudle

No of Days	Days	Date	Hrs	Week
1	SAT	09-Dec	9	
2	SUN	10-Dec	9	1
3	FRI	15-Dec	9	
4	SAT	16-Dec	9	
5	SUN	17-Dec	9	2
6	FRI	22-Dec	9	
7	SAT	23-Dec	9	
8	SUN	24-Dec	9	3
9	FRI	29-Dec	9	
10	SAT	30-Dec	9	
11	SUN	31-Dec	9	4
12	FRI	05-Jan	9	
13	SAT	06-Jan	9	
14	SUN	07-Jan	9	5
15	FRI	19-Jan	9	
16	SAT	20-Jan	9	
17	SUN	21-Jan	9	6
18	SAT	27-Jan	9	
19	SUN	28-Jan	9	7
20	FRI	02-Feb	9	
21	SAT	03-Feb	9	
22	SUN	04-Feb	9	8

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23	FRI	09-Feb	9	
24	SAT	10-Feb	9	
25	SUN	11-Feb	9	9
26	FRI	16-Feb	9	
27	SAT	17-Feb	9	
28	SUN	18-Feb	9	10
29	FRI	23-Feb	9	
30	SAT	24-Feb	9	
31	SUN	25-Feb	9	11
32	FRI	02-Mar	9	
33	SAT	03-Mar	9	
34	SUN	04-Mar	9	12
35	FRI	09-Mar	9	
36	SAT	10-Mar	9	
37	SUN	11-Mar	9	13
38	FRI	16-Mar	9	
39	SAT	17-Mar	9	
40	SUN	18-Mar	9	14
41	FRI	23-Mar	9	
42	SAT	24-Mar	9	
43	SUN	25-Mar	9	15
44	SAT	31-Mar	9	
45	SUN	01-Apr	9	16
46	FRI	06-Apr	9	
47	SAT	07-Apr	9	
48	SUN	08-Apr	9	17
49	SUN	15-Apr	9	18



# UTILISATION CERTIFICATE FOR THE FINANCIAL YEAR 2018-19

Name of the Scheme under which the amount was sanctioned under the Pradhan Mantri Kaushal Vikas Yojna by Technical Institutions for the session 2018-19.

Sl. No	AICTE Sanction Order/Letter No. & Date under which the amount was sanctioned	Amount (Rs.)	
	F. No. 5-8/PMKVY-TI/2018-19/SRO/1-3511384485 & Date: 14.10.2019	Rs: 7,94,250/- (Rupees Seven Lakh Ninety Four Thousand Two Hundred Fifty only)	Certified that out of Grant-in-Aid of Rs: 7,94,250/- (Rupees Seven Lakh Ninety Four Thousand Two Hundred Fifty only) sanctioned by the AICTE during the financial year 2018-19 in favour of Prathyusha Engineering College, Thiruvallur, Tamil Nadu as per letter mentioned in column 2 and Rs. 0/- (Nil) on account of unspent balance of previous year, Rs: 7,94,250/- (Rupees Seven Lakh Ninety Four Thousand Two Hundred Fifty only) has been utilized for the purpose for which it was sanctioned and the balance of Rs. 0/- (Nil) remained unutilized at the end of the year.

Certified that I have satisfied myself that the conditions on which the amount was sanctioned have been duly 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.

## Kinds of checks exercised:-

1. Audited Annual Accounts of the Institute
2. Receipt and Payment account
3. Periodical Progress Reports.

Signature of Chartered Accountant *B. A. Venkatasubramanian* Signature of Head of the Institute

Name of Chartered Accountant *B. S. DEENADAYALAN* Name & Designation

Membership No.: *228728* Full Address with Seal

UDIN : *19228728AAAAAB8774*

Full Address with Seal  
(Mandatory for Self Financing Institutes)

Signature of the Finance Officer *A. R. Sathya*

Name & Designation *A. R. Sathya*

Name of the Finance Officer *A. R. Sathya*

Full Address with Seal  
(Govt. Aided/University & where ever applicable)



Place:

Date:



## FORMAT FOR RECEIPT AND PAYMENT ACCOUNT

Sl. No.	Receipt	Amount (Rs.)	Sl. No.	Payments	Amount (Rs.)
1	To Opening Balance	nil	1	Pradhan Mantri Kaushal Vikas Yojna by Technical Institutions (for the session 2018-19) Expenditure Head wise	
2	Sanction letter no. F. No. 5-8/PMKVY-TI/2018-19/SRO/1-3511384485 & Dt: 14.10.2019	Rs: 7,94,250/- (Rupees Seven Lakh Ninety Four Thousand Two Hundred Fifty only)	1	Mobilization	509713
			2	Teaching Aids	24239
			3	Amortization of infra-structure cost/ Utilities	52189
			4	Raw Materials	38502
			5	Salary of Trainers	164800
			6	Training for Trainers	4807
				Closing Balance	Nil
	Grand Total	Rs: 7,94,250/-		Grant Total	Rs: 7,94,250/-

Signature of Chartered Accountant

B. A. Neenadascher

Signature of Head of the Institute

Name of Chartered Accountant

B S DEENADAYALAN

Name &amp; Designation: Dr Ramesh PLN

Membership No.:

228728

Full Address with Seal

UDIN : 19228728AAAAAB8774

Full Address with Seal

(Mandatory for self Financing Institute)

A. S. S.

Signature of the Finance Officer

Name &amp; Designation

A. S. S.

Name of Finance Officer:

A. S. S.

Full Address with Seal

(Govt. Aided University &amp; where ever applicable)





## **4. Vision 2020 App**



December 26, 2018

To

Dr.S.PadmaPriya

Professor, CSE

Prathyusha Engineering College

Respected Madam

We are pleased to inform you that we are happy about the student work in your previous project and we look further for more App development. We are in position to do our next project for Kalam Foundation and it begins in one month's time so we need to begin discussing details immediately.

We would like to arrange a personal meeting where we could review the project specifications and sign the necessary paperwork. We are excited to have a long and mutually beneficial business relationship.



Yours sincerely

For iSPARK SMART SOLUTIONS  
*[Signature]*  
Proprietor





ESTD. 2001

# PRATHYUSHA ENGINEERING COLLEGE

Approved by AICTE & Affiliated to Anna University, NAAC Accredited "A" Grade, National Board of Accreditation (NBA) Institution

December 28, 2018

To

Ms.Sudharani

Founder

ISpark Smart Solutions

Thirumulaivoyal

Chennai- 600062

Respected Madam.

We are pleased to inform you that we feel grateful on remembering our student contribution and we would like to accept your proposal on Mobile App Development for Kalam Foundation. We would like to arrange a personal meeting where we could review the project specifications. We are excited to have a long and mutually beneficial business relationship.

Yours Sincerely,

Dr.S.PADMAPRIYA  
PROFESSOR, CSE



VIEW PROFILE



Vision2020 has been implementing few development programs with little scope under major large sectors by keeping eye on the local demand specially for the development of grass-root level population. These sectors are 1. Good governance and human rights, 2. Education, 3. health, 4. Livelihood and 5. Water and sanitation



Upload profile pic

Name

Name

Email

Email

Password

password

Phone Number

Phone Number

CREATE ACCOUNT

Already a member? Login





**iSPARK Supporting Solutions Pvt, Ltd.,**

**CASH VOUCHER**

No:...0380...

Date:..2.7.12,2018

Pay Mr. JOTHESH, PRATHYUSHA ENGINEERING COLLEGE

Rupees FIFTEEN THOUSAND RUPEES

For DEVELOPMENT OF VISION 2020 APP

Rs. 15,000/-

  
Admin/Hr



  
Receiver's Signature



## **5. Entrepreneurship awareness camp**





Jayaseelan MECH &lt;jayaseelan.mech@prathyusha.edu.in&gt;

**Fwd: 2nd & Final Installment of Programme/s conducted under DST-NIMAT Project 2018-19**

HOD MECH &lt;hod.mech@prathyusha.edu.in&gt;

Tue, Jan 5, 2021 at 1:52 PM

To: "jayaseelan.mech" &lt;jayaseelan.mech@prathyusha.edu.in&gt;

Dr. P. JAYARAMAN,  
PROFESSOR & HEAD,  
DEPARTMENT OF MECHANICAL ENGINEERING  
PRATHYUSHA ENGINEERING COLLEGE,  
TIRUVALLUR,  
PIN: 602025  
MOBILE : 9840397361  
LAND LINE: 044-37673750

——— Forwarded message ———

From: **Rituraj Singh** <riturajsingh@ediindia.org>

Date: Wed, Jul 10, 2019 at 10:02 AM

Subject: 2nd &amp; Final Installment of Programme/s conducted under DST-NIMAT Project 2018-19

To: &lt;principal@prathyusha.edu.in&gt;, HOD MECH &lt;hod.mech@prathyusha.edu.in&gt;, &lt;admin@prathyusha.edu.in&gt;

**Dr. P. L. N. Ramesh**

Principal

**Prathyusha Engineering College**

Poonamallee - Trivellore High Road, Aranvoyal Kuppan

**Chennai - 602 025**

District: Trivellore

Tamil Nadu

**Kind Attention:** Mr. P. Jayaraman, Professor & Head (Dept. of Mech Engg.)

Dear Sir,

**Sub: 2<sup>nd</sup> & Final Installment of Programme/s conducted under DST-NIMAT Project 2018-19**

Warm Greetings from Entrepreneurship Development Institute of India!

This is with reference to the programme/s conducted under DST-NIMAT Project 2018-19. As per the Agreement, we have already paid the first installment for the programme/s. Now we are releasing second & final installment of **Rs. 4000/-** which has already been credited in your account on **06/07/2019**. The Detail brake-up of the total amount is as following.



Sr. No.	Programme / Activity	No. of Programmes Sanctioned	2nd Installment per programme @ 20% (Rs.)	Total Amount of the programmes (Rs.)
1	EAC	1	4000/-	4000/-
Total				4000/-

**You are requested to please acknowledge the receipt.**

Your cooperation is really appreciated. We are sure that in future we will have same cooperation for the entrepreneurship development activity.

Thanking you, with regards,

Yours sincerely,

—  
Rituraj Singh  
Project Officer  
Entrepreneurship Development Institute of India  
P.O Bhat 382428 Dist Gandhinagar,  
Gujarat  
M:- 8000699250, 8780407375  
Tel- 079-23969159, 61, 63  
Fax- 079-23969164

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Think before you print, "File this email in an email folder and save a tree." Go Green...





# ENTREPRENEURSHIP DEVELOPMENT INSTITUTE OF INDIA

Near Village Road, Via Ahmednagar Airport & Vidya Bridge P.O. Near 35/28 Ind. Estate, Ahmednagar, Gujarat, India.

Tel: +91 79-23949153, 23949154, 23949155, 23949156  
Email: info@edii.org

Website: www.edii.org

S. B. Sareen

Mr. Faculty & Project Director, DST-NIMAT

EDII/DST-NIMAT/18-19/371

Date: 03/07/2018

SPEED POST

Dr. P. L. N. Ramesh

Principal

Prathyusha Engineering College

Panambur - Trivellore High Road

Ahmednagar Kuppam, District: Trivellore

Chennai - 602 025

Tamil Nadu

Kind Attention: Mr. P. Jayaraman, Professor & Head (Dept. of Mech Engg.)

Dear Sir,

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

Greetings from EDII, Ahmednagar!

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)	1	20000	As mentioned in proposal
	Total	1	20000	

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]





HOD MECH <hod.mech@prathyusha.edu.in>

## 1st Installment of Programme/s Sanctioned under DST-NIMAT Project 2018-19

Prakash Solanki <psolanki@edilindia.org>

Wed, Aug 8, 2018 at 12:23 PM

To: Prathyusha Principal <principal@prathyusha.edu.in>, HOD MECH <hod.mech@prathyusha.edu.in>, admin@prathyusha.edu.in

Dr. P. L. N. Ramesh

Principal

Prathyusha Engineering College

Poonamallee - Trivellore High Road

Aranvoyal Kuppan, Trivellore Dist.

Chennai - 602 025

Tamil Nadu

Kind Attention: Mr. P. Jayaraman, Professor & Head (Dept. of Mech Engg.)

Dear Sir,

Sub: 1<sup>st</sup> Installment of Programme/s Sanctioned under DST-NIMAT Project 2018-19

This is with reference to the Agreement signed between EDII and your organization for conducting programme(s) under DST-NIMAT Project 2018-19 to create techno-entrepreneurs and resource persons through Entrepreneurship Development Programme Agency.

As per the Agreement, 80% of the sanctioned amount per programme is to be released before commencement of the programme(s). Accordingly, Rs. 16000/- has been credited in your bank account on 04/08/2018. The detailed brake-up of the total amount is as following:

Sr. No.	Programme / Activity	No. of Programme Sanctioned	1 <sup>st</sup> Installment per Programme (Rs.)	Total Amount of the Programme (Rs.)
1	EAC	1	16000/-	16000/-
Total				16000/-

You are requested to please send us the receipt for the same.

Thanking you with regards,

Yours sincerely,

Prakash Solanki

*[Handwritten signature]*

Prakash Solanki



**REPORT ON ENTREPRENEURSHIP AWARENESS CAMP (EAC)  
CONDUCTED FROM 21.01.19 TO 23.01.19**

**FUNDED BY NSTEDB**

(National Science and Technology Entrepreneurship Development Board, Govt.  
of India)

**DST-NIMAT PROJECT 2018-19**

Prathyusha Engineering College  
Poonamallee-Trivellore High Road,  
Aranvoyal Kuppam, Trivellore Dist.,  
Tamil Nadu, India, PIN: 602025  
Phone: 044-37673750



## DST – NIMAT PROJECT

### PROFORMA FOR POST PROGRAMME REPORT (PPR) OF EAC

1. Name & Address of Programme :  
Implementing Agency  
(with Tel/ Fax /E-mail)  
: **Prathyusha Engineering College,**  
Poonamallee-Trivellore High Road,  
Aranvoyal Kuppam, Trivellore Dist.,  
Tamil Nadu, India, PIN: 602025  
Phone: 044-37673750  
Fax: 91-44-37673703  
Email: [admin@prathyusha.edu.in](mailto:admin@prathyusha.edu.in),  
[hod.mech@prathyusha.edu.in](mailto:hod.mech@prathyusha.edu.in)  
Website: [www.prathyusha.edu.in](http://www.prathyusha.edu.in)
2. Programme Location : Seminar Hall, Prathyusha Engg.College
3. Programme Date : From 21.01.19 to 23.01.19
4. Name of the Coordinator : Dr. P. Jayaraman, Professor, Mech Engg.
5. No. of candidate attended the programme : 75 (Male 57 Female 18)
6. List of participants : **ANNEXURE – I**
7. Program schedule : **ANNEXURE – II**
8. List of resource persons : **ANNEXURE – III**
9. List of industries visited : **ANNEXURE – IV**
10. Participant's feedback : **ANNEXURE – V**
11. Photographs of Programme : Attach one group photo, one classroom photo and one industry/institute visit photo



**ANNEXURE – I****LIST OF PARTICIPANTS**

No	Name of Participant	Age	Male/ Female	Education	Category Gen / SC / ST / OBC / Minority	Aadhar Number
1	2	3	4	5	6	7
1	ABILESH.M.J	21	Male	B.E./Mech/(IV Year)	OBC	2263 9564 3363
2	ABINASH.B	21	Male	B.E./Mech/(IV Year)	OBC	8231 0375 1802
3	ABISHEK.R	21	Male	B.E./Mech/(IV Year)	OBC	4180 5647 1013
4	ABISHEK PANDEY.P	21	Male	B.E./Mech/(IV Year)	GEN	2535 9501 2726
5	AJITH KUMAR.V	21	Male	B.E./Mech/(IV Year)	OBC	9426 4684 9688
6	AKASH.M	21	Male	B.E./Mech/(IV Year)	OBC	8549 3095 1467
7	AMRITH.G	21	Male	B.E./Mech/(IV Year)	OBC	4503 7949 6158
8	ANBARASAN.P	21	Male	B.E./Mech/(IV Year)	OBC	4465 0666 8379
9	ARAVIND.D	22	Male	B.E./Mech/(IV Year)	OBC	4794 7167 0850
10	AUSTRIN MESAC.C	20	Male	B.E./Mech/(IV Year)	OBC	6494 7488 4025
11	BALACHANDER.S	20	Male	B.E./Mech/(IV Year)	OBC	6060 1339 8393
12	BALAMURUGAN.S	22	Male	B.E./Mech/(IV Year)	OBC	4321 5405 1314
13	BHARANI.S	21	Male	B.E./Mech/(IV Year)	OBC	8548 2929 4634
14	BHUVANESH.A	21	Male	B.E./Mech/(IV Year)	OBC	7621 0183 9327
15	BHUVANESH.B	21	Male	B.E./Mech/(IV Year)	OBC	7229 1738 0108
16	CHALLA VIJAY KUMAR	21	Male	B.E./Mech/(IV Year)	OBC	6597 4061 6061
17	DEEPAK.V.N	21	Male	B.E./Mech/(IV Year)	OBC	6750 0691 9727
18	DILLI BABU.N	21	Male	B.E./Mech/(IV Year)	OBC	5174 2642 6202
19	DINESH KUMAR.S	21	Male	B.E./Mech/(IV Year)	OBC	8815 6836 5927
20	DIVAKAR.G	21	Male	B.E./Mech/(IV Year)	OBC	9221 5116 4237
21	GANESH MOORTHY.S	21	Male	B.E./Mech/(IV Year)	OBC	8497 4587 8114
22	GOKULNATH.R	21	Male	B.E./Mech/(IV Year)	OBC	3684 7688 8221
23	GOODWILL S.BRAINARD	21	Male	B.E./Mech/(IV Year)	OBC	6830 4418 3246
24	GOWTHAVARAMAN. M	21	Male	B.E./Mech/(IV Year)	OBC	5627 9989 0285
25	GUDURU JITHENDRA	23	Male	B.E./Mech/(IV Year)	OBC	2456 7439 3835
26	HARISH.G	22	Male	B.E./Mech/(IV Year)	OBC	4895 2521 1330
27	HARISH.R	21	Male	B.E./Mech/(IV Year)	OBC	3013 7831 6482
28	HARI VENKATESH.S	21	Male	B.E./Mech/(IV Year)	SC	5626 6737 6104
29	IMTHIAZ AHAMED.A	21	Male	B.E./Mech/(IV Year)	OBC	4819 4614 9171
30	INDHIRA PRASATH.V	21	Male	B.E./Mech/(IV Year)	OBC	8794 2274 2241
31	JEEVA.R	20	Male	B.E./Mech/(IV Year)	OBC	5736 4639 6998
32	KANNAN.S	21	Male	B.E./Mech/(IV Year)	OBC	6782 4106 9879
33	KATTAMREDDY CHAITHANYA	21	Male	B.E./Mech/(IV Year)	OBC	8062 1675 0270



34	LOGESH.V	21	Male	B.E./Mech/(IV Year)	SC	9110 0611 0466
35	LOKESHWARAN.S	21	Male	B.E./Mech/(IV Year)	OBC	3131 2022 9893
36	M.MOHAN BABU	20	Male	B.E./Mech/(IV Year)	OBC	2337 9432 7712
37	MAGESH KUMAR .C	21	Male	B.E./Mech/(IV Year)	ST	6329 5702 2116
38	MAGESHWARAN .S.A	21	Male	B.E./Mech/(IV Year)	OBC	9621 5254 5952
39	MOHAMED YASIN .A	21	Male	B.E./Mech/(IV Year)	OBC	4646 0813 2457
40	RAJESH .S	21	Male	B.E./Mech/(IV Year)	OBC	8400 5784 9317
41	SANJAIKUMAR .M	21	Male	B.E./Mech/(IV Year)	OBC	8062 9490 0535
42	SARATH .A	20	Male	B.E./Mech/(IV Year)	OBC	2039 9116 5772
43	SARAVANAN .N	22	Male	B.E./Mech/(IV Year)	OBC	3132 5996 1916
44	SATHEESH KUMAR .S	21	Male	B.E./Mech/(IV Year)	OBC	4876 2694 4009
45	SIVARANJAN .R	20	Male	B.E./Mech/(IV Year)	OBC	5709 7719 3364
46	THARANATH .R	21	Male	B.E./Mech/(IV Year)	OBC	6460 8273 4858
47	UMA SHANKAR .S	21	Male	B.E./Mech/(IV Year)	OBC	2820 8398 3242
48	VIJAYABALAJI .C	21	Male	B.E./Mech/(IV Year)	OBC	2059 3966 1164
49	YUVARAJ .P	20	Male	B.E./Mech/(IV Year)	OBC	3327 1740 7181
50	SARAVANAN.K.R	20	Male	B.E./Civil/(IV Year)	OBC	3954 9160 6658
51	ROHIT BABU. D	21	Male	B.E./Civil/(IV Year)	OBC	2139 1766 3560
52	S. PRADEEP KUMAR	21	Male	B.E./Civil/(IV Year)	OBC	3640 2716 2494
53	VAIRA PRAKASH. R	21	Male	B.E./Civil/(IV Year)	OBC	7584 1477 4293
54	RAHUL GOND. M	21	Male	B.E./Civil/(IV Year)	ST	2729 4171 3109
55	RANJITH. S	21	Male	B.E./Civil/(IV Year)	OBC	7101 9064 8501
56	AJAY VARGHESE JOHN	20	Male	B.E./Civil/(IV Year)	GEN	3347 7303 9641
57	SHRIRAM.K	21	Male	B.E./Civil/(IV Year)	GEN	5199 8911 1277
58	DIVYABHARATHI.R	21	Female	B.E./CSE/(IV Year)	OBC	6957 5771 8104
59	MONICA. R	21	Female	B.E./CSE/(IV Year)	OBC	6689 3697 0037
60	JOTHI JAHNAVI. B	21	Female	B.E./CSE/(IV Year)	OBC	6584 9222 3474
61	SAIGOWTHAMI. A	20	Female	B.E./CSE/(IV Year)	GEN	7040 4785 6092
62	MANASA. R	20	Female	B.E./CSE/(IV Year)	GEN	5852 9215 6313
63	DIVYA.K	21	Female	B.E./CSE/(IV Year)	SC	5139 3213 7068
64	KAVITHA. R	21	Female	B.E./CSE/(IV Year)	OBC	8941 0207 8029
65	GAYATHRI. T.K.	20	Female	B.E./CSE/(IV Year)	OBC	6462 5626 9330
66	NISHANTHI. R	21	Female	B.E./CSE/(IV Year)	OBC	7040 0572 6163
67	NITHYASREE. V	20	Female	B.E./CSE/(IV Year)	OBC	6253 1538 8997
68	SONIYA.G	21	Female	B.E./CSE/(IV Year)	OBC	9856 7853 0585
69	ABINAYA.S.B.	21	Female	B.E./CSE/(IV Year)	OBC	4927 7146 1607
70	PREETHI.S.	20	Female	B.E./CSE/(IV Year)	GEN	8657 2424 3716
71	SHANMUGAPRIYA. R	21	Female	B.E./CSE/(IV Year)	OBC	4414 0766 2580
72	SWETHA.N.	20	Female	B.E./CSE/(IV Year)	OBC	9275 3959 3623
73	JAHNAVI. A	21	Female	B.E./ECE/(IV Year)	GEN	4742 0627 4484
74	ASIFA.S.K.	21	Female	B.E./ECE/(IV Year)	OBC	3174 1330 6393
75	RUKMANI. P.	21	Female	B.E./ECE/(IV Year)	GEN	7002 8288 1237



## ANNEXURE – II

### PROGRAMME SCHEDULE

Date and Day	Session	Subject /Topic	Faculty
21.01.19 1 <sup>st</sup> Day	I	Historical background, Indian values, Entrepreneurship and the present scenario.	Mr.V. Ramakrishnan, Deputy Director, MSME, Govt. of India,
	II		
	III	Identification of opportunities for entrepreneurs. Mechanism of product selection and technology-assistance from R&D labs and others on choice of technology.	Mr. M. M. Shah, MD, D-Cube Designs (Startup company), Chennai,
	IV	Procedure to start a SSI unit, General concept about the Govt. formalities, Rules & regulation.	Dr.E. Bhaskaran, Deputy director of Industries and Commerce(EDP), Govt. of Tamilnadu
22.01.19 2 <sup>nd</sup> Day	I	Location and different aspects of an industrial venture and commercial aspects of SSI unit	Mr.S.Venkatesh, HR Manager, OPPO Mobiles India Ltd.,
	II	Business planning, Business plan essentials, Executive summary, Business strategy, Marketing strategy, Competitive strategies, Financial budgets & Forecasts, Business plan format, Financial aspects of SSI unit including salient features of a Project report.	Mr.S.Venkatesh, HR Manager, OPPO Mobiles India Ltd.,
	III	Support and financial assistance from Govt. agencies, Banks, Financial institutions, SFCs and others-securities demanded by FIs/banks etc	Dr. K. Gurusami, Project Manager, TBI, St.Peter's University, Chennai
	IV	Start ups, staffing, Management aspects, Industrial dispute act, insight of The Factories act, compliance under The Factories act, Employees state insurance scheme, Payment of Bonus act, 1965 and Payment of minimum wages act etc.	Dr. K. Gurusami, Project Manager, TBI, St.Peter's University, Chennai
23.01.19 3 <sup>rd</sup> Day	I	Industrial visit to TAPSTIA (Tamilnadu Progressive Small&Tiny industries Association), Profile Tech, Vel agencies, SIDCO women's industrial park, kattur, Chennai,	Managing Partners of respective companies. Mr.Marimuthu, Mob: 9444050065, Mr.Suresh (Profile Tech) Mob: 9840865593 Mr. Maheswaran(Vel Agencies) Mobile: 9791688781
	II		
	III		
	IV		



**ANNEXURE III**  
**LIST OF FACULTY/RESOURCE PERSON**

<b>Sl . No</b>	<b>Name and address</b>	<b>Designation</b>	<b>Organization</b>
1	Mr. V. Ramakrishnan Deputy Director, MSME, Govt. of India	Deputy Director	MSME, Chennai, Tamil Nadu
2	Mr. M. M. Shah, MD, D-Cube Designs (Startup company), Chennai.	Managing Director	D-Cube Designs, Chennai-25
3	Dr.E. Bhaskaran, Deputy director of Industries and Commerce(EDP), Govt. of Tamilnadu	Deputy Director	Department of Industries and Commerce(EDP), Govt. of Tamilnadu
4	Mr.S.Venkatesh, HR Manager, OPPO Mobiles India Ltd.,	HR Manager	OPPO Mobiles India Ltd.,
5	Dr. K. Gurusami, Project Manager, TBI, St.Peter's University, Chennai	Professor	TBI, St.Peter's University, Chennai- 54



**ANNEXURE – IV**

**LIST OF INDUSTRIES VISITED**

Sl. No.	Name, Address and contact details	Products / Service
<b>1</b>	<b>2</b>	<b>3</b>
1	TAPSTIA(Tamilnadu Progressive Small&Tiny industries Association), SIDCO women's industrial Estate, kattur, Chennai-600062, Contact Person: Mr.Marimuthu,HR, Mobile: 9444050065	Fabrication work, Machining work, Training to entry level diploma holders and degree holders
2	Profile Tech, T-345, 1st cross st, SIDCO women's industrial Estate, kattur, Chennai-600062, Contact Person: Mr. Suresh, Mobile: 9840865593	Milling process, Turning work, Jigs, fixtures, Gauges manufacturing and assembly,
3	Vel Agencies, Plot No: T-343, 1st cross st, SIDCO women's industrial Estate, kattur, Chennai-600062, Contact Person: Mr. P. Maheswaran Mobile: 9791688781	CNC gas cutting operations.



## ANNEXURE – V

### **FEED BACK ANALYSIS OF PARTICIPANT - SUMMARY**

Programme Location: PRATHYUSHA ENGG.COLLEGE, TIRUVALLUR

Date : From 21.01.19 To 23.01.19

Total No. of Participants: 75

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Q.1) From where you got the information about this programme?

a) Pamphlets / Broacher	70 Nos. (93%)
b) News paper Advertisement	00 Nos. (00%)
c) Posters/ Hand Bills	00 Nos. (00%)
d) Other (word of mouth)	05 Nos. (07%)

Q.2) What is your opinion about the duration of Programme?

a) Short	00 Nos. (00%)
b) Adequate	68 Nos. (91%)
c) Long	07 Nos. (09%)

Q.3) Did you find the Programme useful?

a) Very much	62 Nos. (83%)
b) To some extent	13 Nos. (17%)
c) Not useful	00 Nos. (00%)

Q.4) Did it fulfill your expectations?

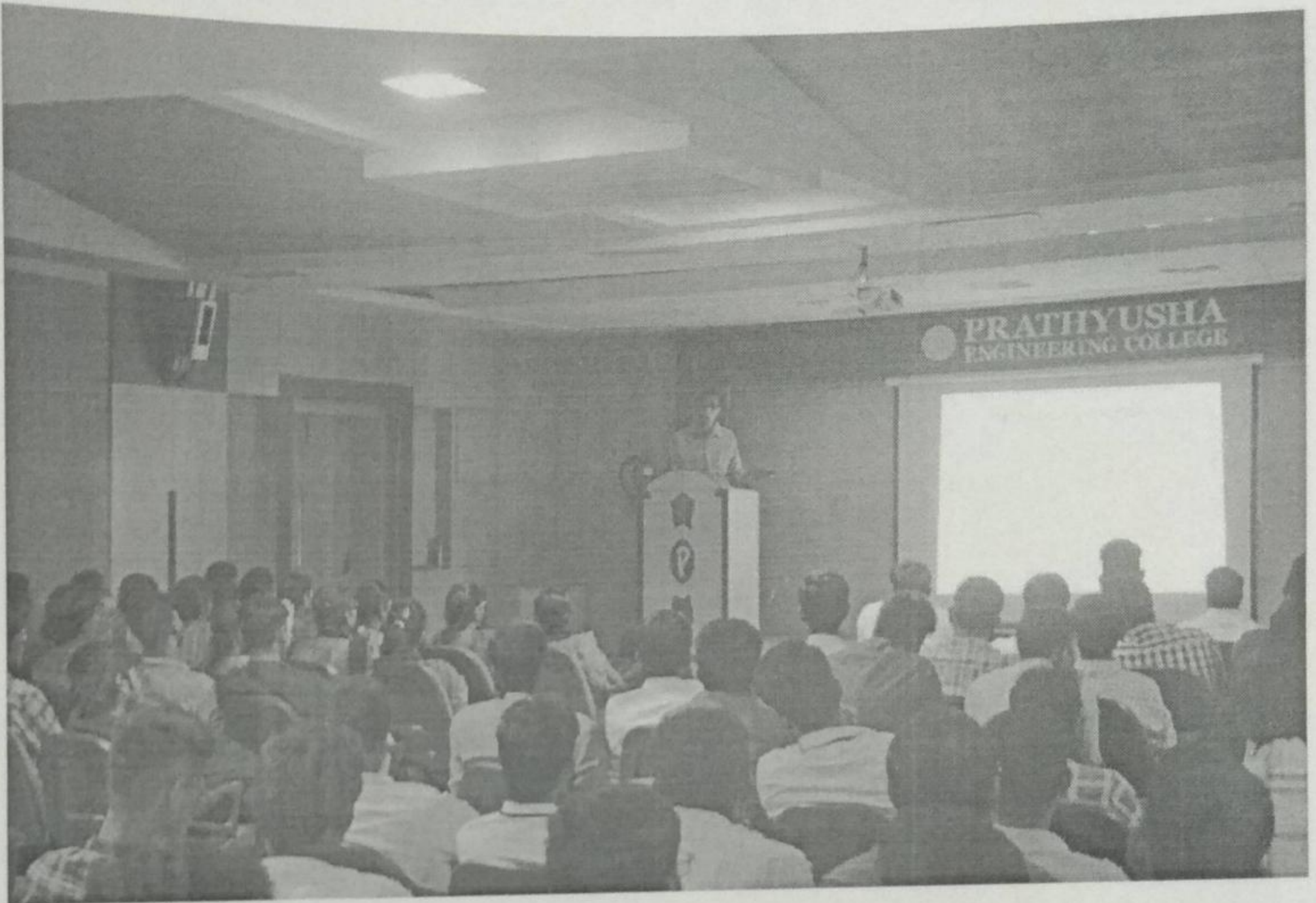
a) Yes	71 Nos. (95%)
b) To some extent	04 Nos. (05%)
c) No	00 Nos. (00%)

Q.5) Planning of the Programme

a) Excellent	69 Nos. (92%)
b) Very good	06 Nos. (08%)
c) Good	00 Nos. (00%)
d) Satisfactory	00 Nos. (00%)
e) Poor	00 Nos. (00%)



Photograph of Programme  
Class Room Photo



Group Photo





Industrial Visit Photo





# MINISTRY OF SCIENCE AND TECHNOLOGY

## DEPARTMENT OF SCIENCE AND TECHNOLOGY

### UTILIZATION CERTIFICATE

**1. Name of the guide and address:**

Dr.P. Jayaraman

Department of Mechanical Engineering

Prathyusha Engineering College

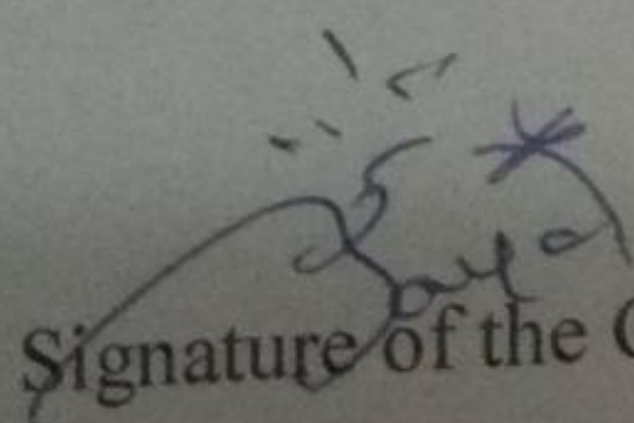
Aranvoyal Kuppam

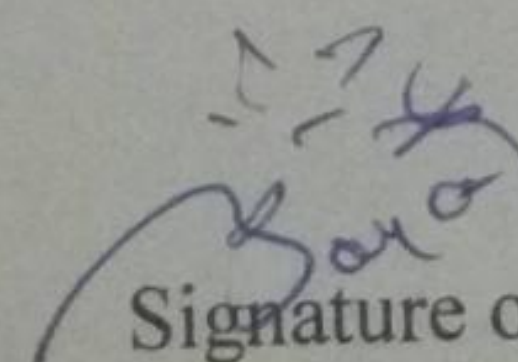
Tiruvallur-602025

**2. Title of the Program :** Entrepreneurship Awareness camp

**3. Project code :** DST-NIMAT PROJECT 2018-19

It is certified that a sum of Rs 0.20 Lakhs (Rupees Twenty thousand Only) sanctioned by the council for carrying out above mentioned Entrepreneurship Awareness camp has been utilized for the purpose for which it was sanctioned and sum Rs Zero (Nil) remaining unutilized is refunded.

  
Signature of the Guide

  
Signature of the HOD



## **6. Automatic sewage cleaning machine**



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**TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY**  
**DOTE CAMPUS, CHENNAI-600025**

**APPROVED LIST OF STUDENT PROJECTS 2018-2019**

**ENGINEERING STREAM**

**CHEMICAL ENGINEERING**

No.	Guide Name & Address	Title of the Project	Student(s) Name	Code	Amt. Rs.
001	Dr. S. Venkatesan Associate Professor Dept. of Petrochemical Technology Anna University (BIT Campus) Tiruchirappalli - 620024	Deep desulfurisation of liquid fuels using ionic liquids	Abirami R Saranya R	CHE-001	7500/-
002	Dr.N. Samsudeen Assistant Professor Dept. of Chemical Engineering National Institute of Technology Tiruchirappalli - 620015	Design of a controller for enhancing the hydrogen production in microbial electrolysis cell	Amal Premkumar K P	CHE-002	7500/-
003	K Chithra Associate Professor Dept. of Chemical Engineering A.C.Tech, Anna University Chennai-600025	Experimental Studies on Residual vaccum oil viscosity reduction	K Zeliyan	CHE-003	7500/-
004	Dr P Mullai Professor Dept. of Chemical Engineering Annamalai University Chidambaram-608002	Bitumen binding with lignin for road construction - An eco-friendly approach	J Iyyappan	CHE-004	7500/-
005	K P Bhuvana Associate Professor Dept. of Plastics Technology Central Institute of Plastics Engineering and Technology Chennai-600032	Development of long lasting polymer material for floater systems to install photovoltaic panels in water bodies	Aakshai Kumar G Gayathri V Priya S Rathimalar S	CHE-005	7500/-
006	N Subramanian Assistant Professor Dept. of Chemical Engineering Kongu Engineering College Erode-638060	Biodegradable plastic from mixed starch	Haritha S R Chandra Choodan K Dravid Madhusudhanan K	CHE-006	7500/-
007	Raj Kumar A Assistant Professor Dept. of Petrochemical Engineering SVS College of Engineering Coimbatore-642109	Efficient Removal Of Acid And Base Dye From Aqueous Solution Using A Nanocomposite Of Polypyrrole grafted Sodium Alginate And Incorporated Bentonite	Mohamed Yasar I	CHE-007	7500/-
008	Dr J B Veeramalini Assistant Professor Dept. of Chemical Engineering Vel Tech High Tech Dr.Rangarajan Dr.Sakunthala Engineering College Chennai-600062	Comparative study and oxidative stability of various natural antioxidant potentials in essential oils	V N Kavya N U Yuvasri	CHE-008	7500/-
009	P Induja Assistant Professor	Synthesis Of Microcrystalline Cellulose, Silica And Imparting	G Ashwin A john	CHE-009	7500/-



324	Mr.A.Karthikeyan Assistant Professor Excel Engineering College Pallakapalayam - 637 303	Walking Stick	M.Manikandan M.Abilesh V.Chandru A.Kavignanam	EME-056	7500/-
325	R.Tamizh Selvan Head of the Department Dept. of Mechanical Engg., P.R. Engineer College Thanjavur - 613 403	Design and fabrication of beta stirling engine for power production in power plants	Jerold Joseph Raj.U Ram Prasad.R Siva Kumar.R Praveen.S	EME-057	7500/-
326	N.Ramachandran Assistant Professor Dept. of Mechanical Engg., Sri Krishna College of Engineering and Technology Coimbatore - 641 008	Design and fabrication of stair climbing load carrier	Pavithran.K Kiran.S Manoj Krishna.V Poovizha Raja.P	EME-058	7500/-
327	Mr.M.Satheeshkumar Assistant Professor Dept. of Mechanical Engg., K.L.N. College of Engineering Pottapalayam - 630 612	All weather jacket	Srinath.K Santhosh.T.S Rakesh.G Rahul.A	EME-059	7500/-
328	J Jesumanen Assistant Professor Dept. of Mechanical Engineering DMI Engineering College Aralvaimozhi-629301	Automatic Wheelchair cum crutches	Aswin Jasanth J	EME-060	7500/-
329	D Meganathan Assistant Professor Dept. of Mechanical Engg., Prathyusha Engineering College, Chennai-602025	Automatic Sewage cleaning machine	Satheesh Kumar S B.Yogeshwaran A Maravan DG Yamini	EME-061	7500/-
330	U Karthikeyan Assistant Professor Dept. of Mechanical Engg., Sriguru Institute of Tech., Coimbatore-641110	Design and Development of RC Grass Trimmer	K Sunil Kumar A Pravinkumar B Vishal Easwaran	EME-062	7500/-
331	M Nallamurugan Assistant Professor Dept. of Mechanical Eng., Roever College of Engineering and Technology Perambalur-621220	Design and Fabrication of Water purifier by thermal radiation	M Paul Kenyon A Ahamed Fayasudeen R Rajarathinam G Prakash	EME-063	7500/-
332	R Pachaiyappan Assistant Professor Dept. of Mechanical Engineering Adhiparasakthi Enigneering College, Melmaruvathur-603319	Design of a manually operated paper recycling machine	Sathish V Shan Nawas Hussain Sudhakar K Surya Prakash R	EME-064	7500/-
333	Dr.K.M.Kumar Associate Professor Dept. of Mechanical Engineering St.Joseph's College of Engg Chennai-600119	Fabrication and analysis of mechanical behaviour of polymer matrix hybrid composite reinforced with carbon fibre and SMA sheet	Francis Hensler Morais F	EME-065	7500/-
334	Mr.R.Thirupathi Assistant Professor Mechanical Engineering JJ College of Engg & Tech Trichy-09	Motor with pedal assist bicycle	N.Thamilazhagan	EME-066	7500/-



**PRATHYUSHA ENGINEERING COLLEGE**  
**Department of Mechanical Engineering**

**PROJECT REPORT**

**Title** : Automatic Sewage Cleaning Machine

**Project members** : YOGESWARAN.B,  
YAMINI.D.G,  
S.SATHEESH KUMAR  
A.MARAVAN

**Guide** : Mr.D.Meganathan,  
Assistant Professor,  
Department of Mechanical Engineering,  
Prathyusha Engineering college , Chennai.



**Abstract:**

The motive of the project is to automate the sewage cleaning process in drainage, to protect the biodiversity. A study recently published in the *Proceedings of the National Academy of Sciences* (PNAS) found that at least 88 percent of the Earth's water surface is polluted with plastic debris. The result is not just a number, it says the contamination level of water. All the plastic wastes are of less density and so they float. The wastes also block the water path at narrow regions. The floating waste reduces the absorption amount of sunlight by water which results in imbalance of aquatic system. The reduction of this level of contamination is a very difficult one. And we cannot employ humans to clean the floating wastes because it may cause severe problems. We can overcome this problem by using a machine in that field. Our project is about automatic sewage cleaning machine, which can be used to clean the solid floating wastes that may be plastic or any other lighter waste materials. There are two parts mechanical & electronics. Mechanical system performs the lifting, moving & throws the waste by the power of motor. Electronics part of this controls the speed, frequency of the mechanical components.

**Key Words:** Automatic, Floating, Wireless

**INTRODUCTION:**

Cleaning of drains has always been a problem. Labors cleaning drain seems unethical. It also leads to a high risk of them catching infections or poisoning due to large amounts of waste/chemicals in them. Also throwing of bottles/plastics and other such objects in the water lead to narrowing and eventually create a block in the flow of water. This leads to overflow in many cases. So here we provide a fully automated sewage cleaning machine to tackle these modern day sewage jamming issues. Our system uses an automated drain cleaning system that lets fluids flow through it but catches the floating waste like bottles & plastic and accumulates it. Our project consists of metal teeth based jaws that are mounted over the chain of the conveyor which is inclined to an angle. The inclined wireframe fixed along with the conveyor is used to let liquid flow but catch all solid waste. The machine consists of a storage tank on top of it. The jaws keep moving over the conveyor using a motorized shaft which is connected using a belt. It then reaches the top and turns upside down to discharge the solid waste in the storage tank. The jaws then move downward as the motor keeps rotating. The cycle continues. This project consists of a floating arrangement along with navigational facilities. The electronic part controls the speed of the conveyor and navigation and provides a control over the machine using Wi-Fi network. The system is a very efficient way to clean the floating waste from water reservoirs such as ponds, dams, rivers, etc. This system has limited human intervention in the process of cleaning and in turn reduces spreading of diseases to mankind.

**Literature survey:**

Ganesh U L, et.al. <sup>[1]</sup> demonstrated the utilization of mechanical seepage cleaner to trade the manual work required for waste cleaning framework. Seepage funnels are extremely messy. Now and again it is unsafe for human life while it is requirement for cleaning waste framework. To defeat this issue, they executed a mechanical self-loader seepage water cleaner thus the water stream is effective in view of general filtration of wastages with the assistance of that undertaking. Various types of condition dangers diminished with the assistance of Drainage framework machine.

R.Sathiyakala, et.al. <sup>[2]</sup> clarified E pail (electronic basin) use for seepage cleaning framework since E-can lifted a sewage and utilized dissipation treatment for this sewage wet sewage was changed over into dry issues, with the of ARM board (ARDUINO) this procedure was performed. After this procedure they were include this waste an administration bank with no sort of warmth of the bacteria. NitinSall, et.al. <sup>[3]</sup> clarified stream of utilized water from homes, business enterprises, business exercises is called squander water. 200 and 500 liters wastage water are produced every individual consistently. So utilizing waste water innovation that expels, instead of pulverizes, a poison in a seepage framework.

M. Naveena Reddy, et.al. <sup>[4]</sup> created scientific model of a profile changed curved gear age system. They researched the tooth under cutting of a non-standard curved apparatus, in light of the purposed numerical model. They created driving and driven profile changed circular gears. This venture supportive in outline and creation of high exactness circular gears. N.Yashaswini, et.al. <sup>[5]</sup> outlined and broke down for passing on granular materials to the tallness of 15m at the rate of 10tones/hr yield. They clarified fundamental plan estimations for the improvement of the container lift in 3D condition of NX programming. They likewise completed the static and vibration examination on [Type text]



the pail lift. They clarified dynamic conduct of the pail and apparatus shaft get together. They at long last discovered the adjustment of plan parameters.

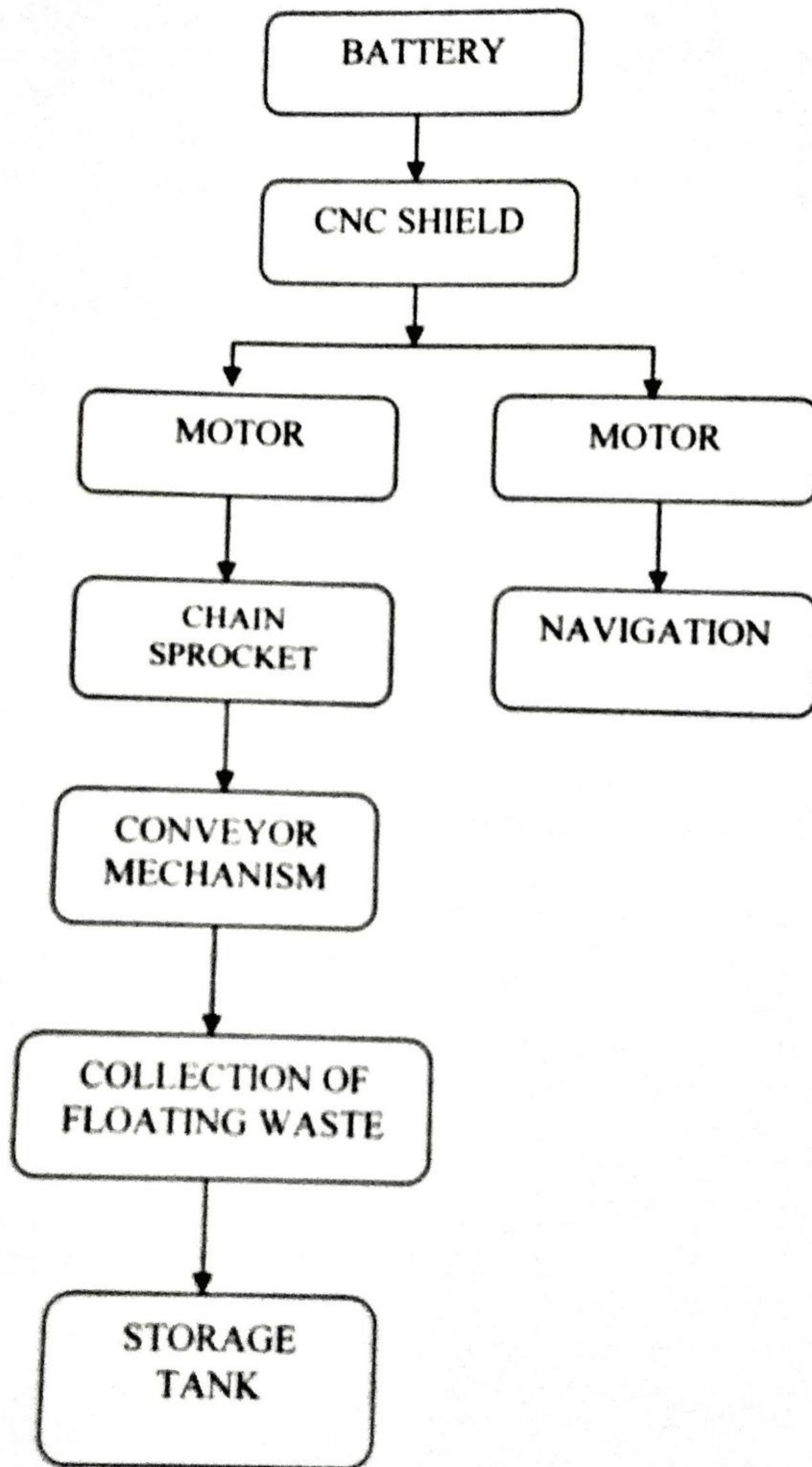
Pedersen, et.al. <sup>[6]</sup> expelled undesirable wonder, by utilizing chain drive reproduction program. It is utilized as a contrasting option to or in blend with physical trials. They framed a particular model of the marine motor chain drive for substantial speed frameworks. They utilized persistent contact constrain strategy for the recreation and examination. Played out a dynamic reproduction of extensive marine motor chain drives. They created novel definition for the recreation of the progression of roller chain drives utilizing a constant contact compel technique. They utilized numerical model for perform reasonable dynamic reproduction of vast marine motor chain drives, inside a direct recreation time. They likewise clarified that it is conceivable to contrast the numerical outcomes and exploratory outcomes.

H. I. Jimoh, et.al. <sup>[7]</sup> demonstrated the exploration was an appraisal of seepage issues in the tropical condition of Ilorin, Nigeria. With a specific end goal to accomplish the logic of the work, such an information have been sourced from coordinate hands on work. Such information incorporate seepage measurements, sorts of squanders in waste channels, issues of squanders and methods for squander administration. These information have been broke down through the utilization of engaging insights and cross organizations as a fundamental strategy for information investigation. James C. Conwell, G. E. Jhonson <sup>[8]</sup> proposed the outline and development of another test machine design that offers same points of interest over the customary one. The new machine and orderly instrumentation give more reasonable chain stacking and permit connect strain and roller sprocket affect checking amid typical activity. The joining of sit still sprocket permits autonomous change of test on length and preload.

## MATERIALS:

S.NO	DESCRIPTION	SIZE/QTY	COST OF MATERIAL
1	Frame, Sheet Metal	As per dimensions	1500/-
2	Chain Sprocket	4 NOS	60/-
3	Microcontroller	1 NOS	400/-
4	12V Battery	1 NOS	900/-
5	CNC Shield V4	1 NOS	450/-
6	Arduino Nano	2 NOS	600/-
7	NRF24L01	2 NOS	300/-
8	Stepper motor NEMA17	3 NOS	1450/-
9	Stepper Drive	3 NOS	450/-
10	12V DC MOTOR	1 NOS	850/-
11	Traction Pulley	2 NOS	500/-
12	Relay Board	1 NOS	150/-
13	DC to DC Converter	1 NOS	150/-
14	Propeller Blades	3 NOS	250/-
15	Bearings	4 NOS	800/-







### 1 Shaft

Material used=Mild steel.

Length=910mm

Inner Diameter=21mm

Outer Diameter=24mm

Length between shaft to shaft=930mm

Power transmitted by the shaft = 108577.5105watt

### 2 Maximum Bearing Load

$L/g = 248.256/9.81 = 25.3064\text{Kg}$

If the weight exceeds more than the calculated weight the load on the bearing will increase due to which there will be improper rotation of the chain occurs.

### 3 Chain Drives

$P=11.372\text{mm}$ .

Chain length =  $L = pLp = 2057.4\text{ mm}$

4.3.3 Lifter

Length=610mm

Breadth =120mm

Gap between each lifter=700mm

### 4 Collecting Bin

Length =920mm

Breadth =610mm

Height =340mm

Area of the collecting bin =  $12 \times L \times B = 280600\text{mm}$

## FINDINGS:

### MOTIVATION AND OBJECTIVE

The problem of water logging due to plastic, thermocol and metal leads to pest growth and it favors diseases like malaria, typhoid etc. This is unsafe for human life and hence the idea of this project emerged. The objective of the proposed project is to design and fabricate an automated machine for drainage cleaning in order to prevent humans from getting affected by various diseases from the infectious microbes present in the sewage while cleaning manually. This proposed system is to minimize or overcome the problem faced while using man operated machine and to minimize the increased dumping rate of waste. Not only that it can be used to clear waste in stagnant water bodies like the pond, lake etc... By this we can reduce the cost of cleaning as well as loss of human lives during the process.

### EXISTING METHOD

The existing system is completely a mechanical based project. It is a stationary system, simply kept in the sewage area to collect the wastes passing over it. The chain and sprocket is used for conveyor movement, which has fitted fork plates to collect the wastes from the sewage. The rotation of the chain along with the plates will collect the floating wastes and put off the wastes in the bin that is placed at the backside of the system.

## RESULT AND DISCUSSION:

Sewage blockage due to plastics and other non degradable wastes are the common cause of sewage water overflow in a particular area. When waste water pipes/drains are blocked, sewage water overflows from the pipes into our home through its plumbing system. Not only can this cause substantial property destruction, but also the reason for many disease causing bacteria which is hazardous to our health. For these important reasons, it is necessary to have sewage removal performed quickly and properly by a proper mechanism.

### A. Mechanical setup

The mechanical setup is the final fabrication of the system using mechanical components that includes outer casing as shown in diagram. Once the design meets the requirements, the real time setup is fabricated.

### B. Electrical setup

[Type text]



Battery is the main source of power for the entire electrical circuit design and switches are used for effective working of the circuit. A voltage regulator is used to regulate the voltage as per the requirement. RF transmitter and receiver are used for remote control operation. Thus, the complete electrical set up is shown in Image.

### C. Application of Sewage cleaning machine

This machine is used in almost all types of drains (Large, Small, and Medium) and also in stagnant water bodies (Pond, Lake) is an efficient way to control the disposal of sewages with regular filtration of wastes. This is used to remove waste from river side.

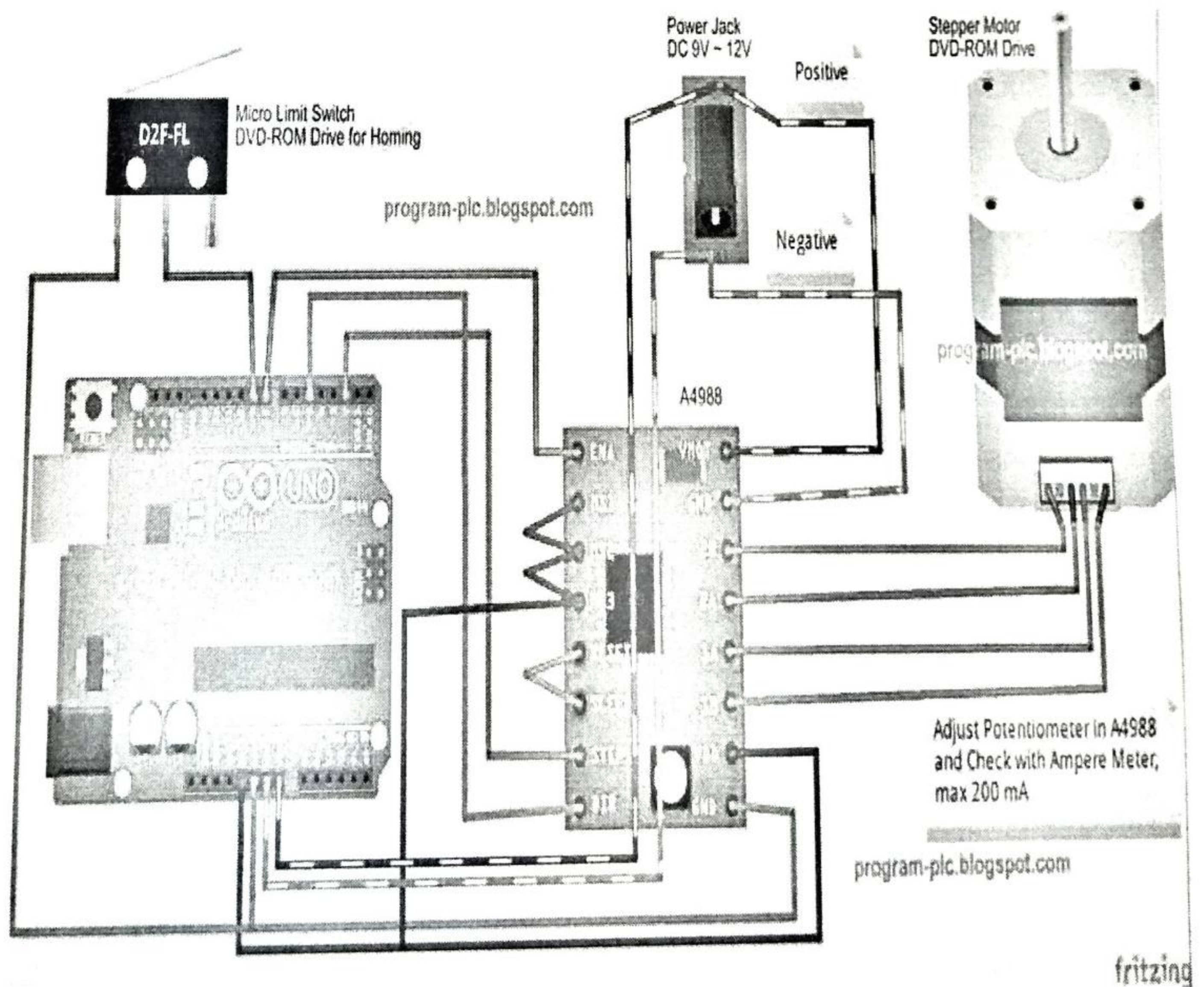
### D. Advantage of Sewage cleaning machine

This cleaning system is easily operatable and cheap to fix the drainage problems. And, there is a reduction of labor oriented method of cleaning. It is a medium weighted portable machine that requires less power. Large amount of garbage is collected and sent for recycling.

## RECOMMENDATIONS:

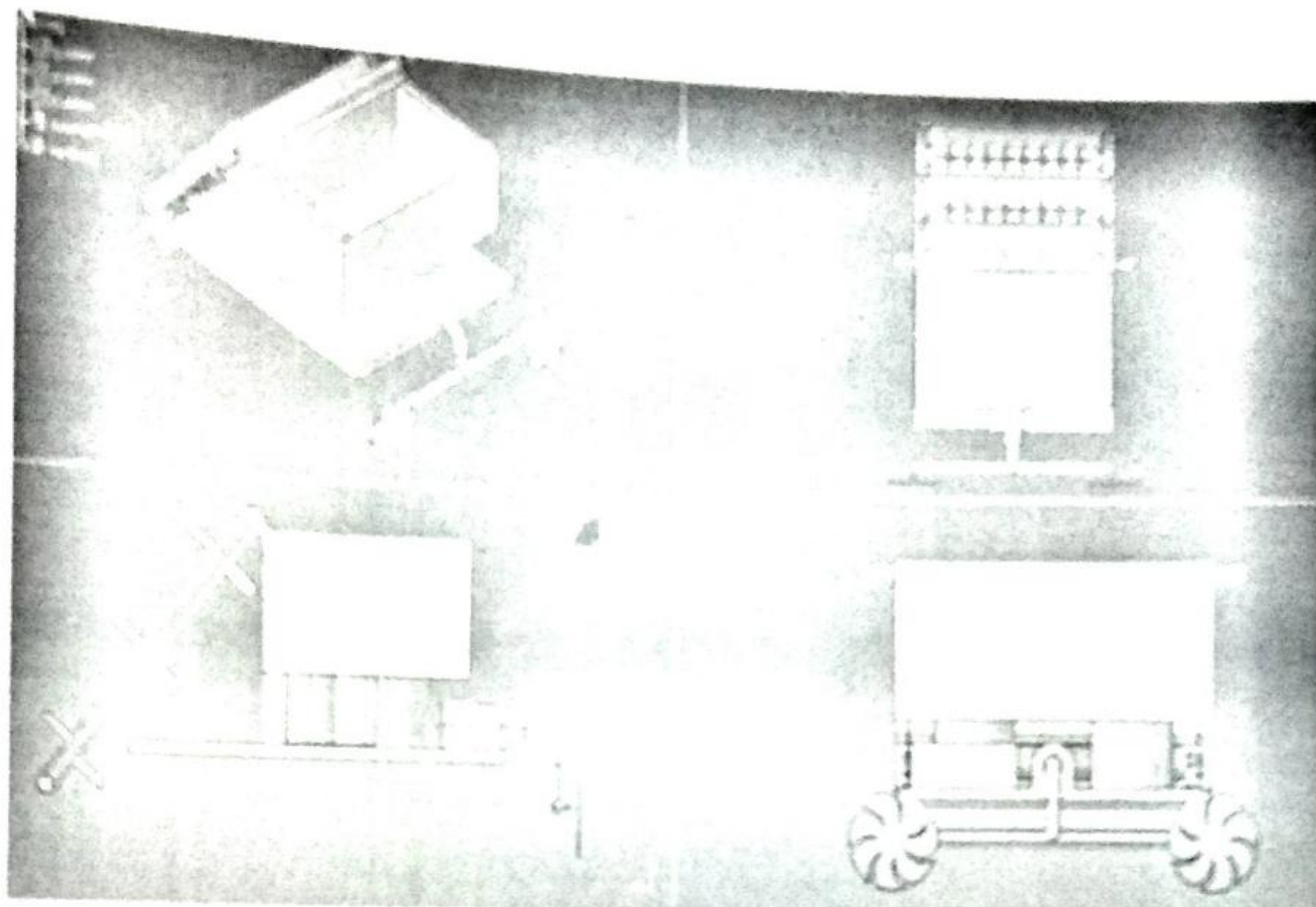
- Use of solar cell to eradicate power problems.
- Suitable coating of material should be done to avoid corrosion.
- Increase the float capacity to increase the load of waste collected.
- Increasing the power of motor to lift all kinds of loads.

## ELECTRICAL SETUP:





## MECHANICAL OVERALL VIEW:



## CONCLUSION:

Our writing survey features the progressing headway in the waste cleaning framework. Numerous particular exact examinations have been done and classifications, for example, self-loader waste cleaning framework and its mechanization have been concentrated to an awesome profundity. We concentrate more on making the framework portable in the seepage. In the treatment arrangement of seepage Waste water control by the engine, roller chain and sprocket, lifter and the gathering receptacle to accomplish self-loader control of sewage squander water treatment. The framework can move in the deplete to gather the gliding waste in order to lessen human works. The cleaner worked move successfully amid the heavier downpours which had more volume of running water with junk and high speed.

## REFERENCES:

1. Ganesh U L, et.al. "Semi-Automatic Drain For Sewage Water Treatment Of Floating Materials", International Journal of Research in Engineering and Technology, Vol No- 05, Jul-2016.
2. R.Sathiyakala et.al., "Smart Sewage Cleaning System" International Journal of Innovative Research in Computer and Communication Engineering, Vol No- 4, February 2016.
3. Nitin Sall, et.al., "Drain Waste Water Cleaner", Global Journal of Researches in Engineering: J General Engineering Vol No- 16, 2016.
4. M. Naveena Reddy, "Geometric Modeling Of Elliptical Gear Drives", International Journal of Advanced Engineering Research and Studies, Vol No- 02, 2012.
5. N. Yashaswini, et.al., "Design And Optimization Of Bucket Elevator Through Finite Element Analysis", International Journal of Mechanical Engineering, Vol No-2, September 2014.
6. Pedersen, et.al., "Simulation and Analysis of Roller Chain Drive Systems", Technical University of Denmark, 2004.
7. H. I. Jimoh, "Drainage Problems in a Tropical Environment Perspectives on Urban Quality Management", J. Hum. Ecol., 23(4): 2008.
8. James C. Conwell, G.E. Jhonson, "Design, Construction and Instrumentation of a Machine to Measure Tension and Impact Forces in Roller Chain Drives", December 1989.



# **TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY**

**DOTE CAMPUS, SARDAR PATEL ROAD, CHENNAI, TAMIL NADU 600025**

## **STUDENT PROJECT SCHEME 2018-2019**

### **UTILIZATION CERTIFICATE**

**1. Name of the guide and address:**

Mr. Meganathan  
Prathyusha Engineering College  
Aranvoyal Kuppam  
Tiruvallur-602025

**2. Name of the students :**

Satheesh Kumar  
Yoheshwaran  
Maravan  
Yamini

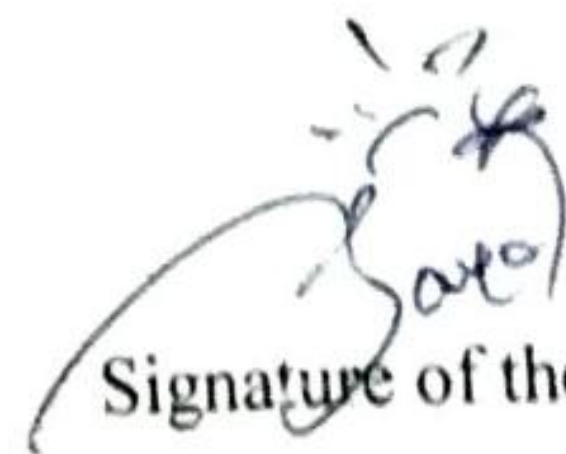
**3. Title of the project : Automatic Sewage cleaning machinery**

**4. Project code : EME-061**

It is certified that a sum of Rs 7500 (Rupees Seven thousand and five hundred Only) sanctioned by the council for carrying out above mentioned student project has been utilized for the purpose for which it was sanctioned and sum Rs Zero (Nil) remaining unutilized is refunded.



Signature of the Guide



Signature of the HOD



## **7. Smart elephant monitoring system**



27<sup>th</sup> April, 2019

To

MEMBER SECRETARY,  
Tamilnadu State Council for Science and Technology,  
Sardar Patel Road,  
DOTE Campus,  
Chennai- 600 025.

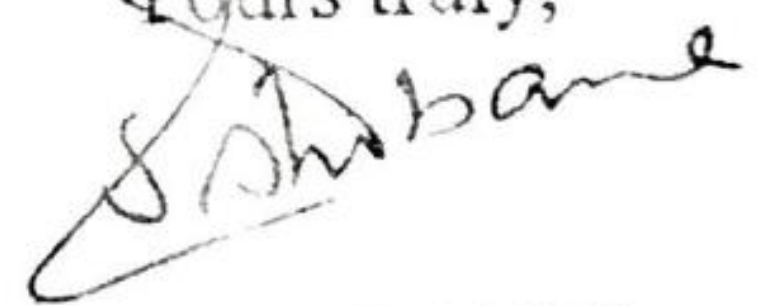
Sir,

**Sub:** Submission of Utilization Certificate for the funded project titled "SMART ELEPHANT MONITORING SYSTEM" – Reg.

We would like to thank TNSCST for selecting our project "SMART ELEPHANT MONITORING SYSTEM" (Project Code- EEE-079) as a funded project. We successfully completed the project. We confirm that this work is original and has not been proposed for any funding agencies. I herewith submitting a utilization certificate for our funded project. We kindly request you to consider the utilization certificate and do the needful.

Thanking you,

Yours truly,

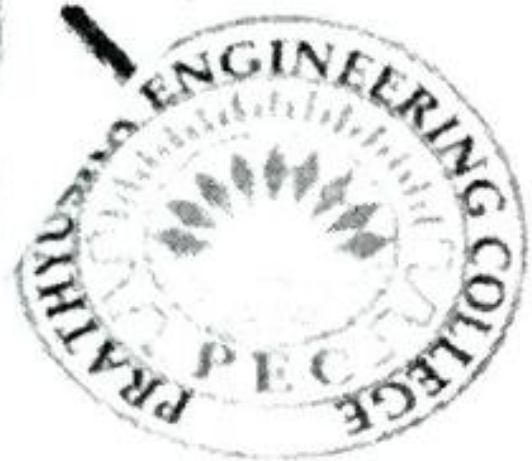


(S.SHOBANA)



200	M Suganya Assistant Professor Dept. of IIT Pandian Saraswathi Yadav Engineering College Thirumansalai Post-630561 Sivagangai- Dt.	Microbial Fuelcell - a promising technology for waste water treatment with power generation	S Annamathu R Kowsalya S Karan	EEE- 075	7500/-
201	Dr S Deepa Professor Dept. of EEE Panimalar Institute of Technology Chennai - 600 123	Surveillance of underground mines with IoT based system	V Sangeetha D Shalini R Nivedha G Monica	EEE- 076	7500/-
202	Mrs S.Arokia Magdaline Dept of ECE Parisutham Institute of Tech.& Science, Nanipkottai Thanjavur - 613 006	E-waste management by means of semi automatic PCB dismantling machine using PLC and SCADA of indigenous nature	Kirthana Barathy J P	EEE- 077	7500/-
203	Dr K Geetha Assistant Professor Periyar Maniammai Institute of Science and Technology Periyar Nagar Thanjavur - 613 403	Fabrication and analysis of nano copper coated Wi-Fi antenna	S.Vijayapradeep	EEE- 078	7500/-
204	Ms S. Shobana Associate Professor Dept. of EEE Prathyusha Engineering College, Thiruvallur - 602 025	Smart Elephant monitoring system	Ibrahim Basha A Lokesh S Karthikeyan T	EEE- 079	7500/-
205	Dr P.Sweety Jose Assistant Professor Dept. of ECE PSG College of Technology Coimbatore-641004	DTMF Controlled pesticide spraying robot	P.Kamalapriya K Kavya V.Padmapriya	EEE- 080	7500/-





**ESTD. 2001**

**PRATHYUSHA ENGINEERING COLLEGE**  
Poonamalle -Tiruvallur road, Chennai 602025

**SMART ELEPHANT MONITORING  
SYSTEM**

**STUDENT PROJECTS SCHEME 2018 - 2019**

**PROPOSAL SUBMITTED TO  
TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY  
DOTE Campus, Chennai-600025**



## FORMAT FOR STUDENT PROJECT PROPOSAL

1. Name of the Student (s) : **IbrahimBasha. A**  
**Lokesh. S**  
**Karthikeyan. T**  
  
one e-mail id : bashasha92@gmail.com
2. Name of the Guide : Ms. S.Shobana  
  
Designation : ASSOCIATE PROFESSOR  
  
Institutional Address : Prathyusha Engineering College  
Aranvoyalkuppam,  
Poonnamalle- Tiruvallur Road,  
Chennai.  
  
Phone No.& Mobile No. : 9840768679
3. Project Title : SmartHuman Elephant Collision System
4. Sector in which your Project  
proposal is to be Considered : Engineering & Technology
5. Project Details :

### INTRODUCTION:

India is home to between 50 and 60% of all of Asia's wild elephants and about 20% of the domesticated elephants. The elephant plays a central role in Indian life and has done for many centuries. Elephants are closely associated with religious and cultural heritage, playing an important role in the country's history.

A deadly conflict is under way between India's growing population and its wildlife confined to ever-shrinking forests and grasslands. Data shows that about one person has been killed on average every day for the past three years by roaming tigers or rampaging elephants. Statistics released by India's environment ministry reveal that 1,144 people were killed between April 2014 and May 2017. That figure breaks down to 426 human deaths in 2014-15, and 446 the following year.

There is no effective communication regarding the elephant conflicts in Pathways/Fields to the trespassers and the farmers which causes frequent and enough damage to the public, though there are very primitive methods for identification and intimation. In our proposed work, the identification of elephants is initially done by the acoustic sensor which is augmented by the ultrasonic sensor, which in turn controls the direction of the camera. The camera captures



the image of the elephant and recognizes it by using pattern matching and the information is broadcast to the farmers, trespassers and travelers.

### Objectives:

- Farmers and the villagers will be placed in a safer zone.
- We can save farm lands from elephant and also minimize the losses.
- Trespassers would travel safely.
- Necessary precautions would be taken towards the safety of wildlife conservation.

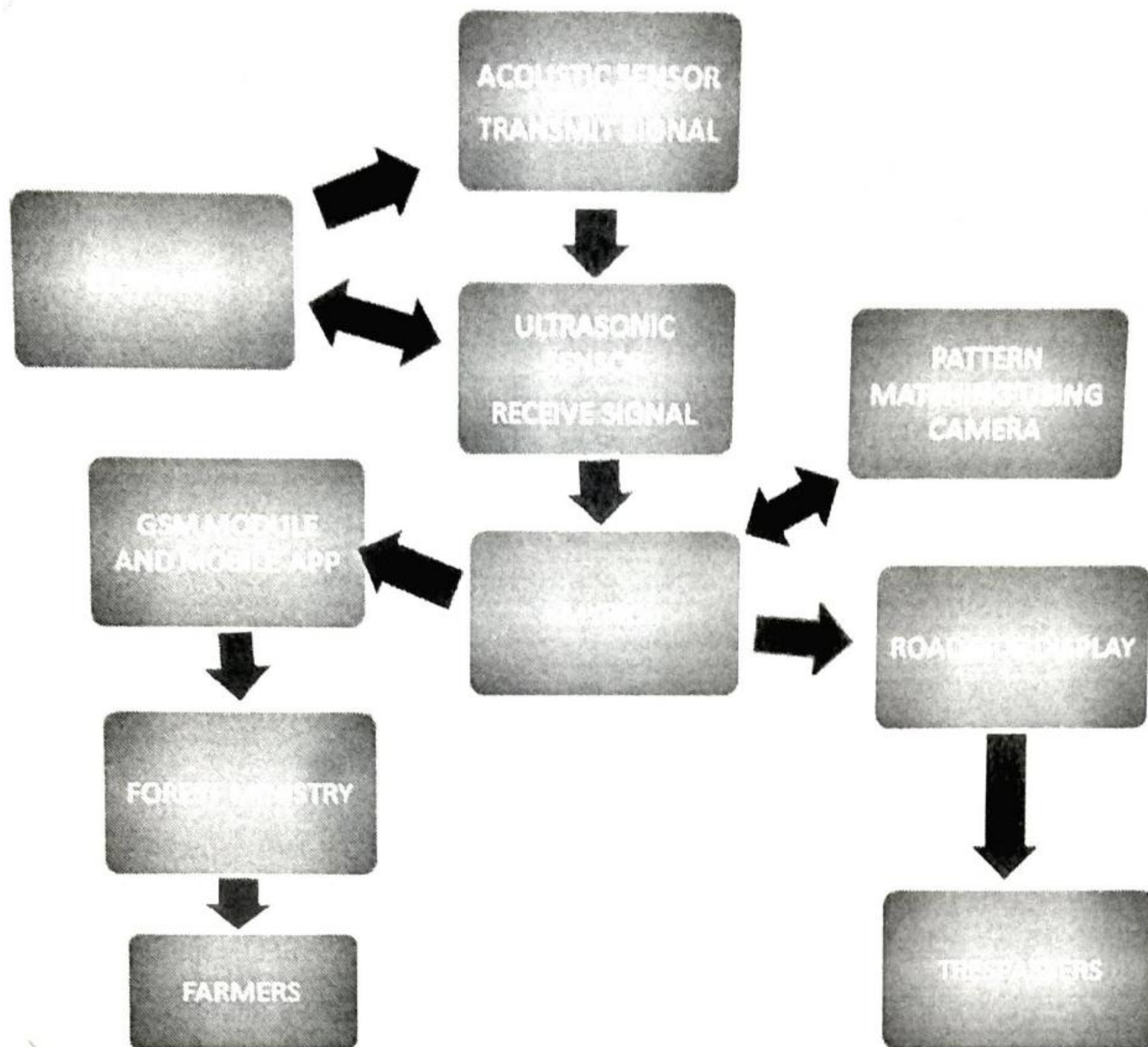
### Methodology:

In this project we are going to use a new technology called Labview software. This project consists of an acoustic sensor to detect elephants infra sound and ultrasonic sensor to measure distance of elephant, for confirmation it has a high resolution camera to detect elephant. These all components are controlled by MyRio hardware using Labview software. Finally it gives the SMS indication to the required person/officers.

The details of hardware and software going to be used is furnished below.

<b>Software</b>	<b>NI LABVIEW 2017</b> (LABoratory Virtual Instrumentation Engineering Workbench).
<b>NI Hardware</b>	<b>My RIO</b> toolkit.
<b>Sensors</b>	Acoustic sensors, Ultrasonic sensors.
<b>Additional Device</b>	Camera.





**USE CASE DIAGRAM**

Our proposed project consists of the following three modules.

#### **DATA ACQUISITION MODULE:**

- Generally elephant produces sound (12-22 Hz), which is less audible to human beings. Acoustic sensor detects the low frequency infra sound waves created by the elephants. Audio range detect by the sensor is between :  $3.8 \times 10^3 - 4.2 \times 10^3$  m/s. Operating frequency is 5GHz.
- After the detection of sound by acoustic sensor, Ultrasonic sensors detects distance up to 3-15 feet is used to find the time difference between sound waves created and received at a particular location. This sensor senses with in the range of 0.05- 5 m/s.

#### **CONTROL MODULE:**

- A camera with resolution (1080\*720, 2MP), detects the movement of elephants.
- The image captured by the camera is processed using pattern matching algorithms.
- All the sensors and camera are controlled using Labview software.
- Sensors and Software interface using Myrio Hardware.

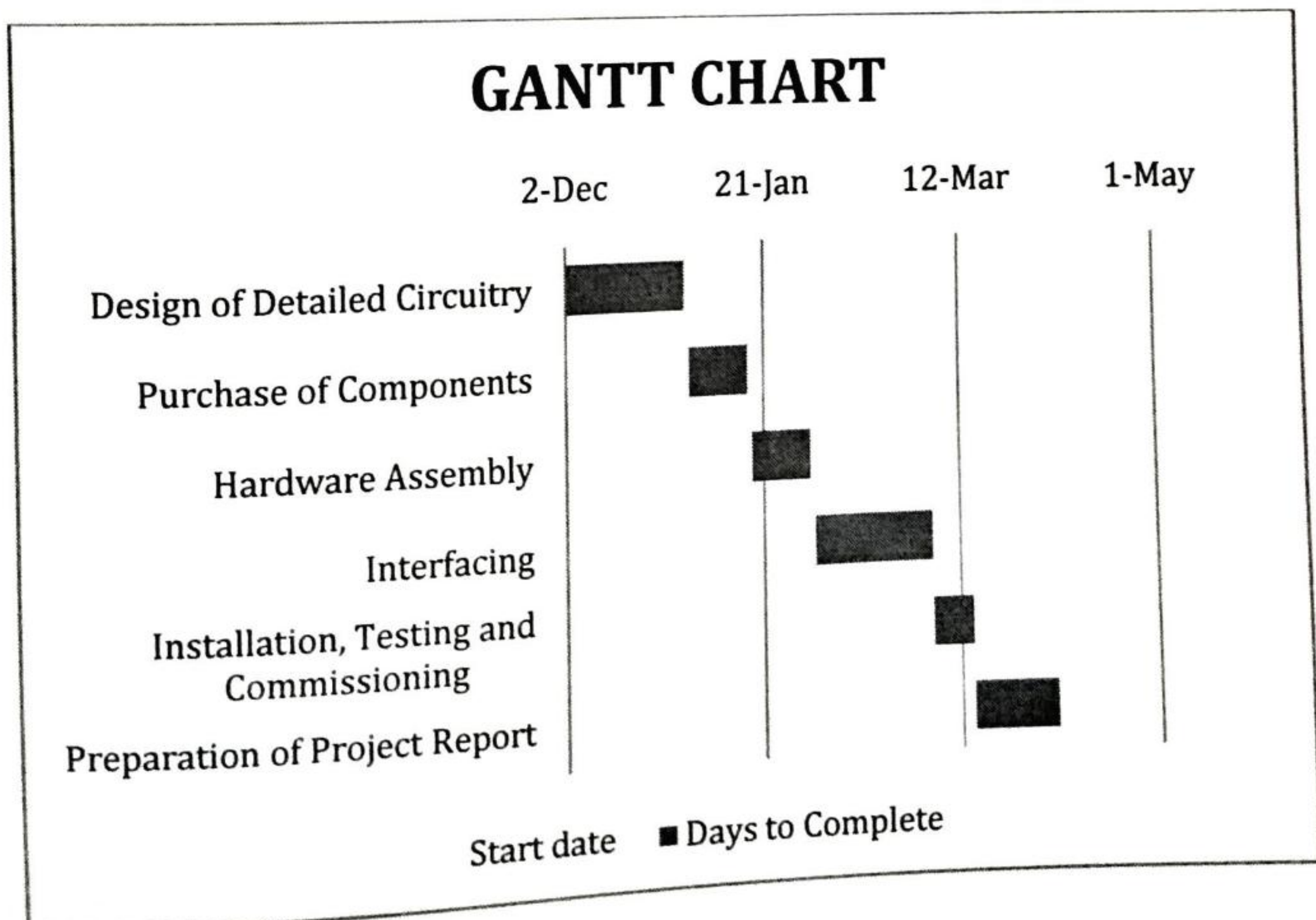


## ACTUATION MODULE:

- After it identifies the elephant it sends the alert information to all the demanding users through SMS using GSM module.

## WORK PLAN

S.NO	Nature Of Work	Duration Of Completion	Deadline
1	Design of Detailed Circuitry	One Month	December 12, 2018
2	Purchase of Components	2 Weeks	January 15, 2019
3	Hardware Assembly	2 Weeks	February 08, 2019
4	Interfacing	One Month	March 08, 2019
5	Installation, Testing and Commissioning	10 Days	March 18, 2019
6	Preparation of Project Report	3 Weeks	April 07, 2019





## BUDGET

### Estimation of Expenditure

S.NO	Name Of The Equipment	Required Quantity	Cost Per Quantity	Overall Cost in Rs
1	Acoustic Sensor	1	200	200
2	Ultrasonic Sensor	1	350	350
3	Camera	1	2540	2540
4	Breadboard Mini	2	50	100
5	GPS Modem	1	1060	1060
6	Arduino Board	1	600	600
7	Other Expenses(Battery, Wire, etc;)	-	2000	2000
			TOTAL	6850

### Conclusion

Elephants wander beyond its boundaries for food and water in the agricultural areas and nearby forest areas. Our project helps to avoid the human elephant collision in the nearby areas around forest. It works efficiently and quickly. The cost is also economical when compared with the safety and the security of the humans.

6. Has a similar project been carried out in your college / elsewhere : No

7. Industrial Mentor

: Mr.Ravichandran,  
MD,United Electronics



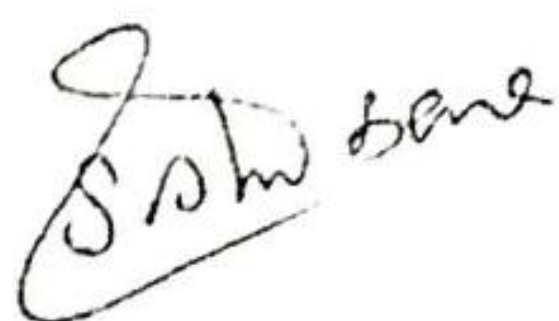
TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY  
DOTE CAMPUS, CHENNAI – 600 025

STUDENT PROJECT SCHEME 2018 – 2019

UTILISATION CERTIFICATE

1. Name of the guide & Address : S.Shobana  
Associate Professor  
Dept. of Electrical & Electronics  
Engineering  
Prathyusha Engineering College  
Aranvoyaluppam,  
Poonamallee-Thiruvallur Road,  
Thiruvallur – 602 025
2. Name of the student(s) : S.Lokesh  
A.Ibrahim Basha  
T.Karthikeyan
3. Title of the project : Smart Elephant Monitoring System
4. Project code : EEE-079

It is certified that a sum of Rs.7500 (Rupees seven thousand five hundred only) sanctioned by the council for carrying out above mentioned student project has been utilized for the purpose for which it was sanctioned and sum of Rs.0 (Rupees zero only) remaining un-utilized is refunded.



Signature of the  
Guide



Signature of the HOD



REGISTRAR / PRINCIPAL/DEAN

With SEAL

Dr. RAMESH P.L.N., B.Tech, M.Tech, Ph.D.  
Principal  
PRATHYUSHA ENGINEERING COLLEGE  
Poonamallee to Thiruvallur High Road,  
Chennai- 602025



## **7. SPDC**



Dated: 23<sup>rd</sup> December 2019

F No. 634 RIFD/SPDP POLICY-I 2018-19



All India Council for Technical Education  
(A Statutory body under Ministry of HRD, Govt. of India)

Nelson Mandela Marg, Vasant Kunj, New Delhi - 110070 Website: [www.aicte.org](http://www.aicte.org)

## SPDC - Sanction Letter

To

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

R&D  
Hrs Padmapriya  
for  
H O

**Subject:** Release of a sum of Rs. 636908/- (Rupees Six lakh thirty six thousand nine hundred eight only) being the 1<sup>st</sup> installment of the total grant of Rs. 1273817/- (Rupees Twelve lakh seventy three thousand eight hundred seventeen only) to conduct the program under the scheme Skill and Personality Development Program Centre for SC/ST students (SPDC) for the year 2018-19 payable during the current financial year 2019-20-reg.

Sir,

With reference to the proposal submitted by the institute, this is to convey the sanction of the Council for payment of Rs. 636908/- (Rupees Six lakh thirty six thousand nine hundred eight only) as 1<sup>st</sup> installment out of the total approved grant-in-aid of Rs. 1273817/- (Rupees Twelve lakh seventy three thousand eight hundred seventeen only) for running of Skill and Personality Development Program Centre for SC/ST students under the Scheme Skill and Personality Development Program Centre for SC/ST students (SPDC), as per details given below:

1.	Name and address of the Beneficiary Institution:	Director/ Principal/ Registrar, Prathyusha Engineering College, Poonamalee-Tiruvallur High Road, Aranvoyaluppam, Tiruvallur, Tamil Nadu-602025		
2.	Permanent ID of institute:	1-16570211		
2.	Title of Programme:	Developing a Centre Of Excellence For Skill And Personality Development Programme Centre For SC/ST Students		
3.	Name of Coordinator:	Dr. Padmapriya S.		
4.	Duration of the Programme:	3 Years		
5.	Grant-in-aid Sanctioned:	Total: Rs.1273817/-	Non-Recurring (85%): Rs.1082745/-	Recurring (15%): Rs.191072/-
6.	Amount to be released during the year 2019-20:	Total: Rs.636908/-	Non-Recurring (85%): Rs.541372/-	Recurring (15%): Rs.95536/-
7.	Sanctioned grant-in-aid is debitable to:	Major Head 601.1 (b) SPDP Plan Head		

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

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

## 1. Release of funds

- The Principal/ Director of the institute and the Coordinator of the program are hereby requested to verify the correctness of the undermentioned bank account/ RTGS details submitted by them along with the Proposal, against which the grant is being released:

AQIS Application No : 1-4245459691

Page No.1

Received  
Original  
20/1/2020



Dated-23<sup>rd</sup> December 2019

F No 65-6 RIFD SPDC POLICY-1/2018-19

Institute PAN No.	Bank Name	Bank Branch Name	Bank Branch Address	Account Holder Name	Account Type	Account Number	IFSC Code
AAATP 5521H	State Bank of India	Thiruvallur Branch Code- 0937	J N Road, Thiruvallur, Thiruvallur District	Principal, Prathyusha Engineering College	Saving Account	38418263794	SBIIN00 00937

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

- b) This sanction is issued in exercise of the powers delegated to the Council and other terms and condition laid down in the guidelines of the scheme.

## II. Schedule of Funding and Duration of Program

- a) 1<sup>st</sup> year: 1st installment (50% of the sanctioned grant) is being released as advance.  
2<sup>nd</sup> Year: 2<sup>nd</sup> Installment (40% of sanctioned grant) after receipt of requisite documents.  
3<sup>rd</sup> Year: 3rd installment (10% of sanctioned grant) after receipt of requisite documents.
- b) The date of release of the grant by AICTE shall be taken as the date of commencement of the scheme.
- c) The duration of the program is for three years.

## III. Submission of documents by college/institution to AICTE on receipt of grant

- a) Acknowledgement of receipt of the grant and acceptance of terms and conditions within 15 days of receipt of Sanction Letter.
- b) Institute shall send a confirmation to AICTE within 2 months of receipt of grant that the sanctioned program has been started/is in progress.
- c) Intimation regarding the constitution of Program Evaluation Committee (PEC).  
PEC is required to be constituted at institutional level. The constitution of the PEC shall be as under:
- Principal/Director/Registrar of the institution (Chairperson)
  - Coordinator of the scheme (Member Secretary)
  - Two HoDs and one subject expert (members).

The members of the said PEC shall not be below the rank of Associate Professor.

## IV. Maintenance of accounts

- a) The Institute shall strictly follow the provisions laid down in the scheme document and Sanction Letter No. F. No. 65-6/RIFD/SPDC/Policy-1/2018-19 dated- 23.12.2019 issued by this office. All correspondence related to the scheme must contain this number along with year of sanction of the scheme; failing which correspondence will not be entertained.
- 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 University/College/Institute shall maintain proper accounts of the expenditure out of the grant, which shall be utilized only on approved items of expenditure (list enclosed).
- 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 it was sanctioned. The accounts of the institute will be open for test check by the Council or Controller & Auditor General of India or any other officer designated by them.

## V. Refund of grant to AICTE (by way of a demand draft in favour of Member Secretary, AICTE, New Delhi)

- a) If the program is not started within six months of the receipt of the grant, the released amount, along with interest accrued thereon, has to be returned to AICTE.
- b) The entire amount of grant already released, along with interest accrued thereon shall be refunded to AICTE if mandatory documents are not submitted by the institute beyond one year of completion of program.



- c) It may be ensured that the scheme is completed within the stipulated time. If the scheme is not completed in time, no further extension will be granted in any case and institute has to refund the entire amount to AICTE.

#### VI. Submission of documents by institution in subsequent years

The following mandatory relevant documents are required to be submitted by the University/Institution within one month of the completion of subsequent year:

- a) The Annual Progress Report (APR) in the prescribed format along with Statement of Expenditure and Audited Utilization.
- b) 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. It should contain the head-wise break up of expenditure made from the grant-in-aid provided by the Council. In case of self-financing/private institutions, Statement of actual Expenditure & Utilization Certificate are required to be audited & signed and sealed by a Chartered Accountant endorsing the membership number and complete postal address.
- c) Scheme Completion Report (SCR) in the prescribed format along with the copies of invoice/bills for the equipments purchased and copy of stock entry register where entry of the equipments have made duly verified. 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. Photocopies of formats are enclosed.
- d) A complete Status Report of the project indicating the activities undertaking, number of students benefited, laboratory works photographs of students, together with their views.
- e) Report of Program Evaluation Committee (PEC).
- f) The minutes of the meetings of Program Evaluation Committee (PEC) are to be submitted to the Council at the end of the scheme along with other mandatory documents.
- g) The University/Institution is expected to submit the above said mandatory documents viz. Utilization certificate, Expenditure Statement and completion certificate etc. within one month of completion of SPDC Scheme. However, delay of further 2 months may be condoned by AICTE in special circumstances as explained by the institute. Delay in submission of documents after three months of the completion of the SPDC scheme shall invite a penalty of 10% of the total sanctioned amount of the SPDC scheme, to be deducted from the balance amount of 2<sup>nd</sup> installment.

#### VII. General Instructions

- a) The amount of interest accrued on the grant should be treated as part of the grant to be utilized for that particular scheme. However, the interest amount accrued along with grant disbursed should not exceed the total grant sanctioned for the scheme. 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 or AICTE should adjust the same in the next installment of grant before its release.
- b) Any expenditure incurred prior to the issuance of the sanction letter will not be allowed to be adjusted in the grant.
- c) Any unavoidable circumstantial change in the scheme with respect to name of Scheme Coordinator for the SPDC scheme would mandatorily require prior approval of the Council. All such requests should be addressed to AICTE, in advance, recording the specific reasons for proposed changes, failing which the offer for the grant already issued would be treated as automatically withdrawn and the financial assistance released in favour of the beneficiary institution shall be refunded immediately to the Council.
- d) The grantee shall maintain an audited record of assets acquired wholly or substantially out of the grant-in-aid and a register of assets shall be maintained by the institute in the prescribed form i.e. GFR-19.
- e) The University / Institute receiving grant under SPDC is expected to put up a plaque at the main entrance of the Lab/Department, which has been modernized using the grant. All the equipment procured through the scheme should be super scribed with AICTE scheme file number.



Dated-23<sup>rd</sup> December, 2019

F No.65-6/RIFD/SPDC/POLICY-1/2018-19

- f) The beneficiary institute will make best efforts to promote the scheme by mentioning the sponsorship/ support from AICTE, carrying the Logo of AICTE in program and other means
- g) Any change in the equipment's recommended/sanctioned shall not be acceptable in any circumstances.
- h) Any expenditure above the sanctioned amount of grant is to be incurred from institute's own funds.
- i) The Institute/University shall not charge any overhead on this program and will provide all the administrative support for completion of the program
- j) The assets acquired wholly or substantially out of AICTE's grant shall not be disposed or encumbered or utilize for the purpose other than those for which the grant was given without proper sanction of the AICTE and should at any time the institution cease to function, such assets shall revert to the AICTE, New Delhi
- k) Kindly mention the File No. 65-6/RIFD/SPDC/Policy-1/2018-19 in your future correspondence.
- l) **GOI General Financial Rules (GFR)** should be followed during utilization of grant. URL addresses <http://doc.gov.in/orders-circular/GFR>.
- m) All the proformas related to SPDC scheme may be find at <https://www.aicte-india.org/schemes/institutional-development-schemes>
- n) AICTE is in the process of finalizing the model list of equipments and standard operating practices for setting up a "Model skill and personality development center". This needs to be adopted by all the beneficiary institutions. It may be ensured that the SPDC set up in your institute is one of the best in the region and benefit of this center reaches to the students needing primary focus on personality development.

Yours sincerely,

Prof. Dileep N. Malkhede  
Advisor (RIFD)

24/12/19

Copy forwarded for information and necessary action to:

1. **Name and Address of the Coordinator**  
Dr. Padmapriya S.  
Dept. of Computer/IT Engineering  
Prathyusha Engineering College,  
Poonamalee-Tiruvallur High Road,  
Aranvoyaluppam, Tiruvallur,  
Tamil Nadu-602025
2. **The Registrar / Director / Principal**  
Prathyusha Engineering College,  
Poonamalee-Tiruvallur High Road,  
Aranvoyaluppam, Tiruvallur,  
Tamil Nadu-602025
3. **Guard File.**





**PRATHYUSHA**  
ENGINEERING COLLEGE



NAAC  
NATIONAL ASSURANCE AND  
ACCREDITATION COUNCIL



NBA  
NATIONAL BOARD OF  
ACCREDITATION



DEPARTMENT OF COMPUTER SCIENCE and ENGINEERING



# AICTE PRESENTATION

SKILL AND PERSONALITY DEVELOPMENT  
PROGRAM CENTRE FOR SC/ST STUDENTS

DR.S.PADMAPRIYA

PROFESSOR

DEPARTMENT OF CSE



## DETAILS OF THE PROGRAMME SANCTIONED

Title of the Programme:	Skill And Personality Development Program Centre For SC/ST Students
Name of the Institute	Prathyusha Engineering College
Name of the Coordinator	Dr.S.PadmaPriya
Duration of the Programme	3 Years
Sanction order No.	F.No.-65-6/RFID/SPDP/Policy- 1/2018-2019
Sanction Letter Date	23 December 2019
Sanctioned Amount	Rs.12,73,817 Non Recurring (85%): Rs10,82,745 Recurring (15%): Rs 1,91,072
Amount Released During the Year 2019-2020(First Instalment)	Rs 6,36,908 Non Recurring (85%): Rs 5,41,372 Recurring (15%): Rs 95,536





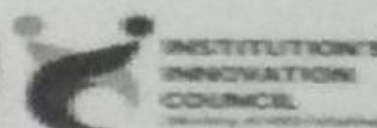
**PRATHYUSHA**  
ENGINEERING COLLEGE



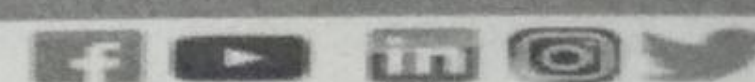
NAAC  
NATIONAL ACADEMIC ACCREDITATION COUNCIL



NBA  
NATIONAL BOARD OF ACCREDITATION



DEPARTMENT OF COMPUTER SCIENCE and ENGINEERING



## DETAILS OF THE UTILIZATION OF FUND

ACADEMIC YEAR 2019-2020				
Title of the Programme: Skill And Personality Development Program Centre For SC/ST Students				
S.no.	Details of Expenditure	Amount per Unit in Rs.	No. of Units	Amount in Rs.
1	Dell Server	60000.00	1	60000.00
2	Dell Desktops	22000.00	15	330000.00
3	LCD Projector with pull down screen	30000.00	1	30000.00
4	HP Multipurpose laser printer	15000.00	1	15000.00
5	Numeric UPS	86000.00	1	86000.00
6	Head phones with Mike	1200.00	15	18000.00
			Total Amount	539000.00





# List of the Programmes Conducted

S.no.	Name of the Activity	No. Of Session
<b>Soft Skill Development - Non Technical</b>		
1	Introduction To Phonetics	3
2	Self Introduction	2
3	Jam	1
4	Role Play	2
5	Resume Building	3
6	Group Discussion	3
7	Vocabulary - Phrase and Idioms	2
8	Blog Designing	1
9	Poster presentation	1
10	Mock Interviews	4





**PRATHYUSHA**  
ENGINEERING COLLEGE



NAAC  
ACCREDITED



NBA  
ACCREDITED



DEPARTMENT OF COMPUTER SCIENCE and ENGINEERING



## List of the Programmes Conducted

S.no.	Name of the Activity	No. Of Session
Skill Development - Technical		
1	IOT Workshop	3
2	Mobile App Development	6
3	Web Development	6
4	Drone Design	4
5	Design Software's Workshop	6
6	Project Expo	3





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011-29581000  
Website : www.aicte-india.org



अखिल भारतीय तकनीकी शिक्षा परिषद्  
( भारत सरकार का एक वैधानिक विभाग )  
( मानव संसाधन विकास विभाग, भारत सरकार )  
बैतान नई दिल्ली मार्ग संख्या १०६/१९८६

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION  
(A Statutory Body of the Govt. of India)  
(Ministry of Human Resource Development, Govt. of India)  
Nelson Mandela Marg, Vasant Kunj, New Delhi-110070

Dr. Neeraj Saxena  
Adviser (IDC)

F.No. 65-6/RIFD/SPDP/Policy-1/2018-19  
Dated: 18.09.2020

To

Principal/Director/Registrar,  
Prathyusha Engineering College,  
Poonamalee-Tiruvallur High Road, Aranvoyalkuppam,  
Tiruvallur, Tamil Nadu-602025.

Sub: List of equipment/items under Skill & Personality Development Programme  
Centre for SC/ST students (SPDC) scheme 2018-19 - reg.

Sir/Madam,

With reference to the Sanction letter no. 65-6/RIFD/SPDP/Policy-1/2018-19 dated 23.12.2019 under Skill & Personality Development Programme Centre for SC/ST students (SPDC) scheme, the list of approved items/machinery/equipment for purchase under **Recurring/Non-Recurring** expenditure for set up of SPDP center in your institute is as per details given below:

S.No.	Approved Items/Machinery/Equipment
1.	HP systems
2.	EGATE i9 LED HD Projector (Black) HD 1920 x 1080 -
3.	Sony HDR-CX405 Camcorder Camera
4.	Schiit - Magni 2 Uber - Headphone Amplifier
5.	projector screen
6.	MX Professional with 2 Vhf Series Wireless / Cordless Microphones LWM-328 Microphone
7.	Online Test series
8.	Guest Lecture

The conditions laid in the scheme guidelines are to be strictly complied.

(Neeraj Saxena)  
Adviser (IDC)

Copy for information and necessary action to:

Name & Address of the Coordinator

Dr. Padmapriya S.,  
Department of Computer/IT Engineering,  
Prathyusha Engineering College,  
Poonamalee-Tiruvallur High Road, Aranvoyalkuppam,  
Tiruvallur, Tamil Nadu-602025.



सूचना का  
अधिकार