

Approved by AICTE, New Delhi Affiliated to Anna University, Chennai Recognized under 2(f) & 12B, UGC NAAC Accredited Institution

INDEX

CRITERION: 3.1.3

Details of Number of departments having Research projects funded by Government and Non-government agencies during the year 2023-24

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3	Electrical and Electronics Engineering	12
4	Mechanical Engineering	37
5	Centre for Promotion of Research	63

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PRINCIPAL
Kings College of Engineering.
PUNALKULAM - 613 303.

Name of the Project/ Endowments, Chairs	Name of the Principal Investigator/ Co-investigator		Year of Award	Amount Sanctioned	Duration of the project	Name of the Funding Agency	Type (Government / non- Government)
TNSCST-PIC- IPCU Establishmen t	Dr. S. Kannan / Ms. S. Abikayil Aarthi	CSE	2024	0.25 LAKHS	1 Year	Tamil Nadu State Council For Sciecne and Technology	Government
Student Project Scheme	Mr.W.Newton David Raj	ECE	2024	0.075LAKH S	6 months	Tamil Nadu State Council for Science and Technology	Government
Naan Mudhalvan Niral Thiruvizha	Mr. S. R. Karthikeyan	EEE	2024	0.1 Lakhs	6 months	Naan Mudhalvan	Government
Student Project Scheme	Dr. A. Albert Martin Ruban	EEE	2023	0.075 Lakhs	6 months	Tamil Nadu State Council for Science and Technology	Government
Naan Mudhalvan Niral Thiruvizha	Dr.S.Sabanayag am	Mechanical	2024	0.1 Lakhs	6 months	Naan Mudhalvan	Government
Student Project Scheme	Mr.R.Rajadurai	Mechanical	2023	0.055 Lakhs	6 months	Tamil Nadu State Council for Science and Technology	Government
IEEE Madras Section	Dr.J.Arputha Vijaya Selvi	ECE	2024	0.05 Lakhs	1 Day	IEEE Madras Section	Non- Government

0.0.528

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தமிழ்நாடு அறிவியல் தொழில்நுட்ப மாநில மன்றம் TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

(Established by Government of Tamilnadu)
Directorate of Technical Education Campus, Chennai - 600 025.

Phone: 044 - 2230 1428

Web: www.tanscst.tn.gov.in

Telefax: 044 - 2230 1552

E-mail: ms.tanscst@nic.in / enquiry.tanscst@nic.in

DR. R. SRINIVASAN, M.Sc., Ph.D., F.I.C.S., M.A.C.S. (USA).

Member Secretary

Letter No.: TNSCST/PIC/IPCU/2023-24

1179

06-02-2024

To The Principal, Kings College of Engineering Punalkulam, Gandarvakottai Taluk, Pudukkottai – 613 303

Sub. PIC-TNSCST - Release of funds for the IPCU established at Kings College of

Engineering, Pudukkottai - reg.

Ref.: 1. Letter No. TNSCST/PIC/IPCU/2023-24 / 029; Dated 21.09.2023.

Intellectual Property related activities are reached through Intellectual Property Rights (IPR) Cell established in your university by Patent Information Centre of Tamil Nadu State Council for Science and Technology for the welfare of the academicians to promote IP filings. To continue the IP activities, a sum of Rs.25,000/- has been sanctioned for the Intellectual Property Cell for encouraging innovation, promoting IPR awareness and facilitating IP protection in your region for the F.Y. 2023-24.

The fund shall be utilized for conducting a workshop for general awareness on significance of IPR protection, various forms of IPR etc. and an advanced technical training on topics related to patent search, patent drafting, technology transfer and commercialization strategies etc. at the maximum expense of Rs. 10,000/- for each programme. After completion, you have to submit utilization certificate for the above grant along with programme completion report (prescribed guidelines enclosed herewith). All IPR-related activities should be executed with the concurrence of the State Council.

As resolved during the IPR cells review meeting convened on 16/11/2023 at Madurai,

- The institutions are insisted to motivate the students and research scholars to develop novel innovations and inventions to take forward to the industry level through technology transfer, as there are 36 IPR cells now in various regions of the state, including arts and science, engineering, law, medical institutions.
- Newly established IPR cells should be inaugurated and organize a technical workshop by the end of December.

- All the IPR cells should submit the pending UC / SE as soon as possible. The remaining grant which was given for the F.Y. 2022-23 should be utilized effectively in bringing the awareness about Intellectual Properties.
- The IPR cells are motivated to facilitate filing of Geographical Indications, as mentioned in the regional wise tentative GI - list shared with the coordinators. They are further advised to identify any other potential GI products in their region and take initiatives by conducting field-work on collection of data and required details related to the potential GI products.

Note:

Kindly arrange to submit UC for the following grant, which was already sanctioned to your institution:

F.Y.	Amount	Reference		
		THE COT (DIC (IDC) 1/2022 24 / 029	Dated	
2022-23	Rs.25,000/-	TNSCST/PIC/IPCU/2023-24 / 029;	Daise	
		21.09.2023		

Yours sincerely

Member Secretary

- Encl.: 1. Format of Utilization Certificate.
 - Guidelines for report submission.
 - Format for Quarterly report.

Copy to:

Dr. S. Kannan,

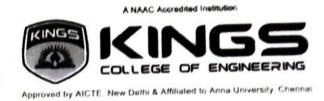
Professor,

Dept. of Electronics and Communication Engineering

Kings College of Engineering

Punalkulam, Gandarvakottai Taluk,

Pudukkottai - 613 303



Dr. J. Arputha Vijaya Selvi, M.E., Ph.D.,

PRINCIPAL

Ref: KCE / PRL /TNSCST/117/23-24

28.02.2024

To

The Member Secretary,

Tamil Nadu State Council for Science and Technology,

Guindy,

Chennai.

Sir,

Sub: Submission of Utilization Certificate - IPR Cell - reg.,

Ref: TNSCST/PIC/IPCU/2023-24/029 dt. 21.09.2023

With reference to the above, herewith, I am submitting the signed copy of the utilization certificate (2 copies) for your kind perusal and approval.

Thank you,

Regards,

J. Marsh 28/2/2024.

Dr. J. Arputha Vijaya Selvi

PRINCIPAL
Kings College of Engineering
PUNALKULAM - 613 303



Encl. Utilization Certificate (2 copies)

UTILISATION CERTIFICATE (Two Copies)

Kings College of Engineering Punalkulam, pudukottai. Name of the Institution 1.

Name of the Grantee/ 2.

Coordinator

Dr.S. Kannan

Purpose of the Grant 3.

IPR cell

Tamilnadu State Council for 4. Science and Technology

TNSCST/PIC/ 1PGU (2023-24/029 Dated: 21.09.2023

Sanction letter No., Date &

mount

RS: 25000 -

of grants-in-Certified that Rs. 25000 aid sanctioned during the year 2023-2024 in favour of Council Letter No. Kings college of Engineering under this TUSCST/pic/1pcu/2023-24/029 has been utilized for the purpose of dated: 21.09.2022 IPR - PROMOTION ACTIVITIES for which it was sanctioned and the conditions of the grant are fulfilled / being fulfilled.

J. Mar 28/02/2024.

Signature of

IPR Cell Coordinator

Head of the Institution with SEAL

PRINCIPAL Kings College of Engineering PUNALKULAM - 613 303



TAMILNADU COUNCIL FOR SCIENCE AND TECHNOLOGY

(Established by Government of Tamilnadu)

Directorate of Technical Education Campus, Chennai 600 025 Ph: 044-2230 1428 www.tanscst.tn.gov.in Email ms.tanscst@nic.in

Prof. Dr. S. Vincent, D.Sc., PhD., MNASc, FNABS, FRSB(Lon)

Member Secretary

591

01.10.2024

Lr.No.TNSCST/SPS 2023-2024/ 3106A /01

To

The Principal
Kings College of Engineering
Punalkulam, Pudukkottai-613 303

0 9 UL 1 2024 5

Sir/Madam,

Sub: TNSCST - Student Project Scheme (2023-2024) - approval intimation-grant

release- Reg.

With respect to the above scheme, the list of project(s) approved by the State Council is enclosed, along with the terms and conditions. Guides are requested to adhere to these terms and conditions, including the timely submission of the Utilization Certificate (UC) and the seminar paper on or before 25.10.2024.

We trust that your students have successfully completed the project. Please inform the guides to submit the Utilization Certificate and the seminar paper in accordance with the terms and conditions specified in items 5 and 6. Kindly note that the grant will be released only upon receipt of both the UC and the seminar paper. Additionally, provide the institution's bank details (Account holder name, Account Number, IFSC code, and Branch name) to facilitate the transfer of the grant via NEFT. The grant should then be promptly disbursed to the concerned students through their respective guides.

Thanking you,

Yours faithfully

Member Secretary

Encl: a) List of the approved SPS Projects 2023-24

- b) Terms & Conditions (T&C)
- c) Format of Utilization Certificate (UC)
- d) Model Seminar Paper (SP)



TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

DOTE Campus, Chennai- 25

Student Project Scheme 2023-24

List of Approved Project(s)

S.No	Guide Name and Institutional Address	Title of the Project	Students Name	Project Code	Head of the Institution	Grant Amount
1	W.Newton David Raj, Assistant professor, Dept. of ECE, Kings College of Engineering, Punalkulam, Pudukkottai- 613 303	Smart and safe rescue system for children trapped in open borewell	Keertiga S,, Jothika G,, Shanmugapriya V,,	EEE-1342	The Principal	Rs 7500
2	Dr. A. Albert Martin Ruban., Associate Professor, Dept. of EEE, Kings College of Engineering, Punalkulam, Pudukkottai- 613 303	Intelligence based smart borewell child rescue system	Akash M,, Aravindh A,, Gushendra Prasath P,, Sudharsan S.	EEE-1356	The Principal	Rs 7500
3	Mr.R.Rajadurai, Assistant Professor, Dept. of Mechanical Engg., Kings College of Engineering, Punalkulam, Pudukkottai- 613 303	Design and fabrication of automatic fertilizer sprayer with weeder using proxmity sensor	Shanmuga bharathi. S, Saravanan. A, Harish Ragavendra.M, Kabilan. M	EME-1328	The Principal	Rs 5500
	010 000				Total	Rs 20500

TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY DOTE Campus, Chennai - 600 025

STUDENT PROJECT SCHEME 2023-2024 UTILIZATION CERTIFICATE

1. Name of the guide and address : W.Newton David Raj,

Assistant Professor,

Dept of ECE,

Kings College of Engineering,

Punalkulam,

Pudukkottai-613 303

2. Name of the student(s) : Keertiga S,

Jothika G,

Shanmugapriya V

3. Title of the project : Smart and Safe Rescue System for Children

Trapped in Open Borewell

4. Project code : EEE-1342

It is certified that a sum of Rs 7500/- (Rupees Seven Thousands Five Hundred) 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 NIL remaining unutilized is refunded.

প্রাচ্বিত্রশ Signature of the Guide

Signature of the HOD

Signature of the Principal

Nings College of Engineering (Autonomous) Punalkulam - 613 303.

SMART AND SAFE RESCUE SYSTEM FOR CHILDREN TRAPPED IN OPEN BOREWELL

S. Keertiga¹, G. Jothika², V. Shanmugapriya³ Final year ECE¹²³ Kings College of Engineering, Punalkulam, Pudukkottai- 613303

ABSTRACT

In India for past few years, there have been several accidents of children falling into abandoned borewells which is left uncovered and get trapped. Abandoned borewells seems to be death pits for children. The time taken to rescue a child from an bore well takes about more than 72 hours. Due to an lack of an proper oxygen and humidity, the lives of an many child couldn't be saved. Recent survey says that about 10 of them 3 were rescued after a long process. The main aim of this technique is to rescue to an child safe within an short period. So use an ultra slim rescue stick for an rescue made up of steel diameter is about 20mm on which the sensors are placed above the stick at the top. The ultra slim rescue stick is inserted into the hole and goes down below the child and it is changes into an L shape, the child is rescued safety without an major injury. The ultra slim rescue stick can be extended based upon the distance. The time taken up for the rescue process is less than the conventional ones.

INTRODUCTION

Many developments has been introduced in an science and technology, which brings an lot of improvement in science and it leads to an development of an country, on the other side the major problem faced by an all is an water scarcity. The level of water become down, so many holes has been dugged and left uncovered properly. Due to the carelessness and improper coverage of a hole, children has been fell into a bore well. The main cause for an death is that an rescue process it takes more time ,and an oxygen that is present inside an hole is insufficient, and presence of many toxic gases inside an bore well leads to an death pits of many children. They use a new technology, by paralleling digging a horizontal hole and by rescuing the child. While drilling a parallel hole and vibrations causes ground quakes and disturbs the child. The hole is fully covered with sand which leads to a death of a child inside a hole. In order to overcome this problem, we are adopting a new Technology "SMART AND SAFE RESCUE SYSTEM FOR CHILDREN TRAPPED IN BOREWELL". The child is rescued safely without an major injury.

METHODOLOGY

The main heart of a process is an ESP-8266 in which an wifi module is already programmed. The inputs were applied by a sensor, Camera, CO₂ sucker and a power management which is controlled by a remote controller. The output is displayed on a screen. Here using an new technology to rescue an child from an borewell use an ultra slim rescue stick to rescue an child from an bore well, the stick is made up of an steel on which the sensors are fixed at the top of an stick also use an relay to control an oxygen unit, exhaust fan and light. In this process insert an slim stick into an bore well hole, the stick goes down the hole by an gap between an child and an hole, there will be an at least point gap between them by using that gap insert an stick and the stick goes down below the child and by using an remote controller. The size of an stick is about 2mm and the ultra slim rescue stick size is very much lesser than 2mm at the end which is folded, is released and it is changed into an L shape. The child is rescued within an minimum hours without an major injury.

RESULT

By adopting an ultra slim rescue stick technology, child is rescued safely without an major injury, the sensors are used to sense the present situation of an child and the conditions of an child can be seen through an camera and instructions are given through an microphone which is present at both the rescue and an monitoring unit. By using a remote controller the ultra slim stick is operated and a child is rescued.

CONCLUSION

To rescue of a child from a bore well by this new technology. In this technique use an ultra slim rescue stick made up of a stainless steel. The rescue stick is designed about that is folded at the end and it is inserted into the hole and goes down below the child and it is changed into an L shape .The child is rescued safely within an short period and all the sensors are placed above the rescue stick which is operated by an remote controller.

Guide:Mr. W. Newton David Raj, Assistant Professor, Department of Electronics and Communication Engineering, Kings College of Engineering, Punalkulam, Pudukkottai-613303

2 of 2





PROGRESS THROUGH KNOWLEDGE

Niral Thiruvizha 2024 Results

			Nes		
S.No	College Code	College Name	Theme Name	Faculty Guide	Team Member Name
1	4	Madras Institute of Technology, Anna University	Agritech & Food Technology	Dr. M R Sumalatha	Girish G, Kaillash Kumar S, Sandhiya M, Swetha Das R
2	1113	R.M.K.Engineering College	Agritech & Food Technology	Mr. C. M. Varun	Mukesh Nath G, Udhayakumar R
3	1113	R.M.K.Engineering College	Agritech & Food Technology	Mr.Y.Alexander Jeevanantham	Dinith N N, Ruthran S, Sri Rajesh J, Vignesh Kumar V
4	1113	R.M.K.Engineering College	Agritech & Food Technology	Dr. N.R Gladiss Merlin	G Rohit Sudarsen, Hare Ram C, K Sathvik
5		R.M.K.Engineering College	Agritech & Food Technology	Dr. N.R Gladiss Merlin	Prasenna Vignesh V, Revanth JR, S Mithun Raaj
6	1118	Veltech Multitech Dr. Rangarajan Dr. Sakunthala Engineering College	Agritech & Food Technology	Mrs.S.Sangeetha	HariHaran.N, Karan.M, Mohana Aditiyan.P
7	1118	Veltech Multitech Dr. Rangarajan Dr. Sakunthala Engineering College	Agritech & Food Technology	Dr. M. Selvam	Suganthan. P
8	1130	Vel Tech High Tech Dr.Rangarajan Dr.Sakunthala Engineering College (An Autonomous Institution)	Agritech & Food Technology	Dr.S.Rajamanickam	ABILASH B L, PRAVEEN A, SANTHOSH B, SHYLESH B
9	1133	Velammal Institute of Technology	Agritech & Food Technology	A.PONSANGEETHA	Ajay Kumar K B, Lohith Shyam Sri S, Sathish Kumar M
10	2104	CHENNAI INSTITUTE OF TECHNOLOGY	Agritech & Food Technology	A.TAMILSELVI	BIKKA THARUN KUMAR YADAV, RISHIKESAVAN P S
11	2104	CHENNAI INSTITUTE OF TECHNOLOGY	Agritech & Food Technology	Senthilkumar A	A Ranjith kumar, S Nishanth
12	2104	CHENNAI INSTITUTE OF TECHNOLOGY	Agritech & Food Technology	Harshanya M	Allwin p thomas, S.AAKASH
13	2105	Dmi college of Engineering	Agritech & Food Technology	Dr.D.R.Denslin Brabin	AMRUTHA MERIN SUNNY, HARSHINI N, JOSHNA N, VISHNU PRIYA
14	2106	Jeppiaar Institute of technology	Agritech & Food Technology	Mr.S.Saravanan	Hari Prasanth K, Rahul Rakesh J, Subhash M
15	2114	PANIMALAR ENGINEERING COLLEGE	Agritech & Food Technology	Dr.S.DEEPA	ANISHA G, JAHNAVI K, SUBHIKSHA K, YAMKA DELFIN A
16	2116	RAJALAKSHMI ENGINEERING COLLEGE	Agritech & Food Technology	Dr.R.Shanthi	ESWARA SAI PRAKASH NUNI, EZHILBHARATH, NIVENDRA Y
17	2116	RAJALAKSHMI ENGINEERING COLLEGE	Agritech & Food Technology	Dr.Nithiyanantham K K	Siddarth S
18	2116	RAJALAKSHMI ENGINEERING COLLEGE	Agritech & Food Technology	MRS. C. AMUTHA	DINESH M, SABARISH KUMAR L M, SNEKAVARSHINI S S, VINUDHA K
19	2116	RAJALAKSHMI ENGINEERING COLLEGE	Agritech & Food Technology	DR. T. SANTHANA KRISHNAN	AHAMED SHABITH, JOTHIKA SHREE G K, MADHUMITHA K, SELVA PREVIN R V
20	2116	RAJALAKSHMI ENGINEERING COLLEGE	Agritech & Food Technology	Mrs. Maharasi M	Mrithula.K.R, Senthilnayaki.N, Snehaprabha.K
21	2116	RAJALAKSHMI ENGINEERING COLLEGE	Agritech & Food Technology	Ms.M.Sandhiya	A.Tinisha, B.Visvesh, H.Vinisha, R.Tharunikaa
22	2116	RAJALAKSHMI ENGINEERING COLLEGE	Agritech & Food Technology	Ms. M. Manju	Jeyavelan K S, Rissi Kumar P, Shivaraj S, Shivesh P R
23	2116	RAJALAKSHMI ENGINEERING COLLEGE	Agritech & Food Technology	Dr. Tamilselvi P	Abirami R, Adhavan T, Chetan Choudhary
24	2122	Saveetha Engineering college (Autonomous)	Agritech & Food Technology	Dr.Aswini J	Aishree Ramesh, S Sanjay, Vincent Isaac Jeyaraj J
25	3101	ANAND INSTITUTE OF HIGHER TECHNOLOGY	Agritech & Food Technology	A.S.BALAJI	Bandi Revathi, Delcy V, Kalepalli lavanya
26		ANAND INSTITUTE OF HIGHER TECHNOLOGY	Agritech & Food Technology	S.DINAKAR JOSE	ABBURI LAKSHMI NARAYANA, BARATH, DAISAN N, DURAIRAJ M
27	3106	EASWARI ENGINEERING COLLEGE	Agritech & Food Technology	Mrs.D.Kavitha	Burhan Aijaz, Kishore Babu M S, Mohammad Irfan Sheikh
28	3106	EASWARI ENGINEERING COLLEGE	Agritech & Food Technology	Dr.J.Vijayaraj	Mugilesh E, Nitish Kumar P, Sanjay Karthik S
29	3110	KCG College of Technology	Agritech & Food Technology	Dr Thomas Leonid	Somesh kumar, Vigneshwaran, prem kumar
30	3111	LOYOLA ICAM COLLEGE OF ENGINEERING AND TECHNOLOGY	Agritech & Food Technology	Dr. S. Mary Virgil Nithya	Ashik Sharon M, John Mugesh C, Vasanth M
31	3111	LOYOLA ICAM COLLEGE OF ENGINEERING AND TECHNOLOGY	Agritech & Food Technology	Mr. M. Martin Charles	Anand samuel, Anton Dominic Savio Vaz S, Cherub Timothy S, Lester Perez R
32	3111	LOYOLA ICAM COLLEGE OF ENGINEERING AND TECHNOLOGY	Agritech & Food Technology	Dr. A. Santhi Mary Antony	Manoj Prasath R S, Satish M S, Suthir T, Theodore B
33	3111	LOYOLA ICAM COLLEGE OF ENGINEERING AND TECHNOLOGY	Agritech & Food Technology	Dr. G. K. Sathish Kumar	Ahamed Rasheef H R, Akash Michael A, Levin Prince M, R Dhinesh
34	3111	LOYOLA ICAM COLLEGE OF ENGINEERING AND TECHNOLOGY	Agritech & Food Technology	Mr. B. R. Sathish	Joe Sebastian L, Prasanna L, Praveen Samuel S, Vinith Raj A
35	3124	ST.JOSEPH'S INSTITUTE OF TECHNOLOGY	Agritech & Food Technology	Dr. D. Menaga	ROSHAN B T, VIKAAS S R
36		Agni College of Technology	Agritech & Food Technology	Ms V.Nivi	Karuppaiya M, Tamilarasan . S, Visali .G
37		PRINCE SHRI VENKATESHWARA PADMAVATHY ENGINEERING COLLEGE	Agritech & Food Technology	Dr.M.Preetha	Jaya Saradhy.P.S, Lingeshwer.S, RahulKumar.P
38		Sri Sai Ram Institute of Technology	Agritech & Food Technology	Parthiban M	Harish J, Manobala V, SIVAKUMAR k, Saidhanush k
39		Sri Sai Ram Institute of Technology	Agritech & Food Technology	M Subashini	Aiswarya V, Jayadurga M S, Sakthi Priya M, Sandeep R
40		Sri Sai Ram Institute of Technology	Agritech & Food Technology	Dr.A. Rajasekar	MUTHUKUMAR G, NANDINI S R, SOUMIYA A, VASANTHKUMAR S R
41		Sri Sairam Engineering College	Agritech & Food Technology	Dr.SURESHKUMAR M	HARINISHA N, JESSICA SHARON W, PRIYADHARSHINI M, PRIYANKA MALAR G P
42	4125	Sri Sairam Engineering College	Agritech & Food Technology	Mrs.V.Valarmathi	ARUN SANTHOSH V, ARUNN T, DHANUSH PRABHU K, Srihari V
43	4207	C.K. COLLEGE OF ENGINEERING & TECHNOLOGY	Agritech & Food Technology	Mrs. G. Mahalakshmi	Dhiviyabala .G, Gayathri .M, Jayasri .A
44	4207	C.K. COLLEGE OF ENGINEERING & TECHNOLOGY	Agritech & Food Technology	Dr. R. Kanimozhi	Dhakshan.D, Dhanushraj. B, Sambath kumar.K
45		IFET COLLEGE OF ENGINEERING	Agritech & Food Technology	Mr.M.O.Ramkumar	BALAJI K, JAYASRI A R, KARAN R
46	4211	IFET COLLEGE OF ENGINEERING	Agritech & Food Technology	Mrs.K.Kalaiselvi	Alex.M, Hari.K, Jaya Prakash Narayanan.A
47	4211 4211	IFET COLLEGE OF ENGINEERING	Agritech & Food Technology	Dr.T.Ananth kumar	NIDYA THIRSHALA M, NIVETHA N, OVIYA A, SABIMOZHI M
48 49		IFET COLLEGE OF ENGINEERING	Agritech & Food Technology	Mrs.G.Leema Roselin	LOKESH E, MOHAMED INAMUL HUSSAIN N, NITHISH G, POORNACHANDRAN G
50	4211	IFET COLLEGE OF ENGINEERING IFET COLLEGE OF ENGINEERING	Agritech & Food Technology Agritech & Food Technology	Mr.C.Manimaran Ms.K.Sheela	P. MOHAN, S. NAVEEN RAJ, S. SRINEVASAN, S.DHARANIDHARAN
51	4211	KARPAGA VINAYAGA COLLEGE OF ENGINEERING AND TECHNOLOGY	Agritech & Food Technology	P.Geetha	J.Nandhakumar, K.Mangaiyarkarasi, R.Pooja sree, S.Sivasankari G.Harini, S.Jayasri, V.Arivazhagan, V.Ravinapriya
52	4216	Mailam engineering college	Agritech & Food Technology	Dr. DHANASEKARAN K	DHANENDHIRAN R, MOHAMED ASHIQ M, MOHAMMED THARICK K, SUBBASH V
53		Mailam engineering college	Agritech & Food Technology	GAJENDIRAN R	A.Deepa, D.Mahalakshmi, S.Aishwarya Lakshmi
54	4216	Mailam engineering college	Agritech & Food Technology	Mr.S.Vanakovarayan	Divyashree G, Hemavathi M, Jeeva P
55	4216	Mailam engineering college	Agritech & Food Technology	Dr.MOHANADEVI C	Dhanesh D, Mohamed Ibrahim R, Praveen Kumar M, Youvaraj J
56	4216	Mailam engineering college	Agritech & Food Technology	K.Sundaravinayagam	Nitin Vimal Guru M, Ranjith Kumar M, Sabarivasan K, Tamilselvan E
57		Mailam engineering college	+ - · · · · · · · · · · · · · · · · · ·	Mr.S.Shanmuganathan	ARUN S, BALAMURUGAN A, EZHILARASAN P
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256	7214	NEHRU INSTITUTE OF ENGINEERING AND TECHNOLOGY	Clean and Green Technology	Mohammedkasim M	Jamesh Gnanraj k, Kannan S J, Prashanth S
257	7277	Sri Krishna college of Engineering and Technology	Clean and Green Technology	Dr. R. Chandra Devi	A D Charuthy, K Hariram, R Srikaran, S Saikrupa
		Sri Krishna college of Engineering and Technology	Clean and Green Technology	Mr.S.Karthikeyan	Dhinesh Balaji S, Harish K, Kathirvel S
		Sri Krishna college of Engineering and Technology	Clean and Green Technology	Dr.K.Balasubramanian	A.Swetha, Sowmitha P, Vasudevan J, Yazhini S M
		EXCEL ENGINEERING COLLEGE	Clean and Green Technology	K.Vijay babu	ARJUN S, DHILIPKUMAR V, HARI KRISHNAN S
		Government College of Engineering Erode	Clean and Green Technology	Dr.K.Tamilselvan	BUVANESH M, PRABHU A, VIMAL M A
		Government College of Engineering Erode	Clean and Green Technology	Dr.G.M.Gowthama kumar	ADITYAPRIYAN G, NARESH KUMAR L, REBECCA JANE ANGELINA R
		NANDHA ENGINEERING COLLEGE	Clean and Green Technology		
			0,	Dr. Senniangiri N	Gugan . A, Sabarish.D, Srikanth.G
		Sri shanmugha college of engineering and technology	Clean and Green Technology	Mr. K. Mohan	DEVENDIRAN S, KISHOR KANNAN A, MANORANJITH A, SUTHARSHAN G
		BANNARI AMMAN INSTITUTE OF TECHNOLOGY	Clean and Green Technology	Dr MANOJ KUMAR P	AZHAGARVIJAY P S, KANAGATHARA R, ROHITH M R, SAHITHYA V
	7377	K.S.RANGASAMY COLLEGE OF TECHNOLOGY	Clean and Green Technology	Dr.J.Philip Robinson	Kaviyashree V, Lokeshwar P C, Sridhar R
		K.Ramakrishnan College of Technology	Clean and Green Technology	Mr.A.OORKALAN	G.BALAJI, M.MIRUDHULA, M.SUDHARSAN
268		SARANATHAN COLLEGE OF ENGINEERING	Clean and Green Technology	Ms.Vaishali.P	A. Raghul, A.R. Kishor, R. Aishwarya, S. Srivarsan
			- -	+	
		Kings College of Engineering	Clean and Green Technology	Mr. S.R. Karthikeyan	SIVARANJANI.D, SOWMIYA.K, SOWMIYA.L, VIJI.J
		MOHAMED SATHAK ENGINEERING COLLEGE	Clean and Green Technology	DR.T.HARIHARAN	Anbarasan R, Dinesh Kumar D, Kavin M
		MOTHER TERASA COLLEGE OF ENGINEERING AND TECHNOLOGY	Clean and Green Technology	P THIRUMURUGAN	BARATH ANTONY A, GOKULRAJA A, HARI KRISHNAN D, JAYACHANDER S
		MOUNT ZION COLLEGE OF ENGINEERING AND TECHNOLOGY	Clean and Green Technology	Mr.S.Sundaravignesh	KANAGARAJ P, MUTHUPANDI M, RAMA MOORTHY K, VIGNESH M
		VELAMMAL COLLEGE OF ENGINEERING AND TECHNOLOGY	Clean and Green Technology	Dr P Karthikeyan	Bhavishya D, Vijaya Rajya Scindia R.B
		Alagappa Chettiar Government College of Engineering and Technology	Clean and Green Technology	Mr.N.Rajakumar	IYYAPPAN P, SIVA A R, SUJITH M, VIJAYA RAGHAVAN R
	9176	Alagappa Chettiar Government College of Engineering and Technology	Clean and Green Technology	Ms. C. Sindhuja	Anusha K, Arthi M, Divya Barathi S, Lavanya S
277	9176	Alagappa Chettiar Government College of Engineering and Technology	Clean and Green Technology	Dr.RM.Sakthi Sadhasivam	PRAVEEN M, SRIDHAR C, VASANTH S, VIKENESHWARAN M
278	9176	Alagappa Chettiar Government College of Engineering and Technology	Clean and Green Technology	Dr.R.Sarala	ASHWIN R, Hariram P, Karuppiah U, Mogeshwar J
279	9176	Alagappa Chettiar Government College of Engineering and Technology	Clean and Green Technology	Dr.S.M.Kavitha	P.K.Nuthana, R.Maharajothi, S.Kasthuri, V.Dinesh
280	9176	Alagappa Chettiar Government College of Engineering and Technology	Clean and Green Technology	Dr. C. Karthika pragadeeswari	Gnana Barathi SP, Sharmika L, Sushmitha S, Thulasimani S
281	9176	Alagappa Chettiar Government College of Engineering and Technology	Clean and Green Technology	Dr.P.Raveendiran	RAKESH SHARMA .A, VELMURUGAN .M, VETRISELVAN .S, VIGNESH .S
282	9176	Alagappa Chettiar Government College of Engineering and Technology	Clean and Green Technology	Dr. S. Nageswari	ABINESH A, ANWAR T, BHARATHISELVAN V
283		Alagappa Chettiar Government College of Engineering and Technology	Clean and Green Technology	Prof.R.Manigandan	GOKULNATH N, GOWTHAM S, SARANRAJ R, VIGNESHWARAN M
284	9204	Kamaraj College of Engineering and Technology	Clean and Green Technology	¿Dr. S.Karthikumar	Jasmine Kilda. L, Kamali. S, Vaishaali. A. M
285	9204	Kamaraj College of Engineering and Technology	Clean and Green Technology	¿Mrs.R.Amuthalakshmi	E. Varsha, M. Lamiya Banu, R.Rinisha, S.Thilsath meeral
		SETHU INSTITUTE OF TECHNOLOGY	Clean and Green Technology	Mr. M.JOTHI BASS	KARTHIKEYAN S, NAVEEN KUMAR N, THILOTHAMA M
		SETHU INSTITUTE OF TECHNOLOGY	Clean and Green Technology	Mr. R. Jayaprakash	Suresh Kumar G, Suryaprakash R, Veerapathiran S, Vishvanath S
		SETHU INSTITUTE OF TECHNOLOGY	Clean and Green Technology	Mr. S.A. Sethu Raaman	BALCHAMY S
		UNIVERSITY COLLEGE OF ENGINEERING, DINDIGUL	Clean and Green Technology	Dr.S.Aiswarya	B.SANTHOSH, B.SARAN, M.GANAPATHI RAM, M.MANOJ KUMAR
		ANNA UNIVERSITY REGIONAL CAMPUS, TIRUNELVELI	Clean and Green Technology	Dr. K. Usha Kingsly Devi	Angel L, Blessy J, Deepashree K, Mary Princy T
		ANNA UNIVERSITY REGIONAL CAMPUS, TIRUNELVELI	Clean and Green Technology	Dr. K. Usha Kingsly Devi	EASAKKI RAJAN K, MATHUMITHA I, PAVADHARANI M K, SRUTHI R
		Government College of Engineering	Clean and Green Technology	Prof.M.Balasubramanian	Dhanush Karun R, Dhinesh Kumar M, Mohamed Fazil S, Vignesh K
		Mepco Schlenk Engineering College, Sivakasi	Clean and Green Technology	Dr.L.Prakash	DHARUN KUMAR G, HARIHARAN B
		P.S.R. ENGINEERING COLLEGE	Clean and Green Technology	Dr.K.Valarmathi	Balaji Sankaran R, Boobala Ashok B
		P.S.R. ENGINEERING COLLEGE	Clean and Green Technology	Ms.K.Ramalakshmi	Sutharsana Prasanna N
		P.S.R. ENGINEERING COLLEGE	Clean and Green Technology	Mrs.K.Shalini	K. Maheshselvi, K. Sakthyi, P. Hemalatha
		P.S.R. ENGINEERING COLLEGE	Clean and Green Technology	Dr.Vinoth Rathinam	C.Anantha eswaran, E.merlin abraham
		P.S.R. ENGINEERING COLLEGE	Clean and Green Technology	Ms.S.Karthika	B. Hariharan, C. Muneeswaran, M. Aathithiyan, R. Mohamed Yasin
299		ANNAI VAILANKANNI COLLEGE OF ENGINEERING, KANYAKUMARI	Clean and Green Technology	Ms.ANITHA SAHAYA MERCY	A.Arun, C.Sree vidhya, R.Rabinesh
		ANNAI VAILANKANNI COLLEGE OF ENGINEERING, KANYAKUMARI St.Xavier's Catholic College of Engineering	Clean and Green Technology Clean and Green Technology	Mr.N.Manikandan Ajith J. Kings	SIVANESH MSIVANESH M, SOOSAI SHAM, Salan vinish .s, Soundhar Rajan k Malvin Reno A, Nithesh A, Riwan Mejo C, Shajan R
		AMRITA COLLEGE OF ENGINEERING AND TECHNOLOGY	Clean and Green Technology	Srinivasan P	Gohin G P, Gopika R K, Sreedharsan R, Thanyasri P S
	9628 9633	UNIVERSITY COLLEGE OF ENGINEERING, NAGERCOIL ROHINI COLLEGE OF ENGINEERING AND TECHNOLOGY	Clean and Green Technology Clean and Green Technology	Dr.C.Mythili B.EASVARA THAYA BALAN	A R SUSHMA, CHADWICK J, K K ROHAN, SARAVANAN C
			U,		E.G.Raja Lekshmi, R.Princy, T.Ponrejitha, T.Shamini
	9635	STELLA MARY'S COLLEGE OF ENGINEERING Madras Institute of Technology, Appa Hoisersity	Clean and Green Technology	Mrs. N. Agnes Flora	J. Jaisil, J. Jeya Pratheksha, M. Mohamed Shake Bareeth, S. J. Varshath
306		Madras Institute of Technology, Anna University	Education 4.0	Dr.P.Jayashree	Hamilton Samic S, Sundarajan Balaji, Suriyaa V
		Prathyusha engineering college	Education 4.0	W, Thamba Meshach	Deepak R, Divakar Rao N, Soorya Christic M
		Prathyusha engineering college	Education 4.0	R.THIAGARAJAN	Kancharla Charan, Lokeshwaran D, Premkumar V N, Sivakumar G
		Prathyusha engineering college	Education 4.0	Premalatha G	K.Venkataravanammma, R.Pranathi, R.Swetha
		Velammal Engineering College	Education 4.0	Dr.B.Murugeshwari	Mounish P.S, Shahid Farhan W.S, Thirumalai N
		APOLLO ENGINEERING COLLEGE	Education 4.0	R. SUDHA	ANAND E, ASKAR ALI E, LAKSHMI NARAYANAN S, LINGAN A
		CHENNAI INSTITUTE OF TECHNOLOGY	Education 4.0	Adithya Anil	P.Sai Ganesh
		CHENNAI INSTITUTE OF TECHNOLOGY	Education 4.0	Aswathi.K.P	Aswath Gopal P, Aswin M, Harish M
		CHENNAI INSTITUTE OF TECHNOLOGY	Education 4.0	M Sindhu	Rikeshkumar K, Rohithkumar R
		CHENNAI INSTITUTE OF TECHNOLOGY	Education 4.0	Ms T.C. Sabareeswari	Sai Rakesh K, Thanaj Cheziyan T, Tharun V.S
		CHENNAI INSTITUTE OF TECHNOLOGY	Education 4.0	Ms T.C. Sabareeswari	Adithya N, Mathesh A
		Jeppiaar Institute of technology	Education 4.0	Mr.A. Satheesh	HEMAVARSHNI P, KIRUTHIKAA V, NISHANTHINI H, SAHITHYA A
		PANIMALAR ENGINEERING COLLEGE	Education 4.0	Dr.S.DEEPA	KIRAN.S, PRASANNA,V, PRAVEEN RAJ.M.P, RAKESH.V
		rajalakshmi engineering college	Education 4.0	Dr. M. Sridevi	Farhan Subi, Jagan Balaji T, Logeshwaran V
		rajalakshmi engineering college	Education 4.0	Dr. Shanmugapriya P	Sankaranarayanan G, Sashank S, Subhash G M, Valli T
321	2116	rajalakshmi engineering college	Education 4.0	Dr.Selvakumar V S	Hari Krishnan K B, Karthikaa K, Keerthikumar J, Madhesh M











NAAN MUDHALVAN-ANNA UNIVERSITY- NIRAL THIRUVIZHA

TAMIL NADU'S SKILLING INNOVATION CHALLENGE[HACKATHON]

Smart Poultry Guard:Innovating Sustainable Poultry Farming through Advanced Gas Emission Detection and Monitoring for Improved Environmental Management

Major Area:

The major area involved in creating an automatic sensor model to address ammonia/H2S gas emissions from bird litter in the poultry sector is environmental monitoring and control. This field focuses on developing systems and technologies to monitor and manage various environmental parameters, including gas emissions, in order to ensure a safe and sustainable environment.

Problem Statement:

The goal is to create an automatic sensor model that can assess gas emissions and trigger alerts when the gas concentration exceeds safe limits.

Total Cost: 20,000

College Code & College Name:

College Code: 8211

College Name: Kings College of Engineering

Guide Name, Designation & Mobile No:

Guide Name : Mr.S.R.Karthikeyan Designation : Assistant Professor

Mobile No : 9790469427

E-Mail : karthikeyan.eee@kingsengg.edu.in

Student Team Details:

SI. No	Student Reg . No.	Name of the Student	Branch	Mobile No.	Email Id
1.	821120105026	SIVARANJANI.D	EEE	6382394531	dshivaranjani4@gmail.com
2.	821120105028	SOWMIYA.K	EEE	8072997927	ssaranam362kk@gmail.com
3.	821120105029	SOWMIYA.L	EEE	8220094107	sowmiyalingan05@gmail.com
4.	821120105032	VIJI.J	EEE	6383316031	Sankarviji726@gmail.com

Project Summary:

To create an automatic sensor model for addressing ammonia/H2S gas emissions from bird litter in the poultry sector, you would need to research and select appropriate gas sensors, design a sensor network, develop a data acquisition system, set threshold limits for gas concentrations, implement an alert system, integrate with management measures, test and calibrate the model, and monitor and maintain its performance. This model aims to assess gas emissions, trigger alerts when limits are exceeded, and prompt necessary measures for effective management of odor and fly issues in poultry farms.

Proposed Solution with Methodology:

- 1. Research and select appropriate gas sensors: Identify gas sensors that are capable of detecting ammonia (NH3) and hydrogen sulfide (H2S) gases. Consider factors such as sensitivity, accuracy, and compatibility with the poultry farm environment.
- 2. **Design the sensor network**: Determine the optimal locations for placing the gas sensors within the poultry farm to ensure comprehensive coverage. Consider factors such as the size of the farm, ventilation systems, and potential gas emission sources.
- 3. **Develop a data acquisition system**: Create a system that can collect data from the gas sensors in real-time. This system should be able to process and analyze the data effectively.

- 4. Set threshold limits: Define threshold limits for ammonia and hydrogen sulfide gas concentrations that are considered safe within the poultry farm. These limits should be based on relevant regulations and guidelines.
- 5. Implement an alert system: Configure the sensor model to trigger alerts when the gas concentrations exceed the defined threshold limits. These alerts can be in the form of notifications sent to farm managers or integrated with existing farm management systems.
- 6. Integrate with management measures: Ensure that the automatic sensor model is connected to a system that can prompt necessary measures for effective management. This may include activating ventilation systems, adjusting litter management practices, or implementing other odor and fly control strategies.
- 7. **Test and calibrate**: Conduct thorough testing and calibration of the sensor model to ensure its accuracy and reliability. This may involve comparing sensor readings with reference measurements or conducting controlled experiments.
- 8. Monitor and maintain: Regularly monitor the performance of the sensor model and conduct maintenance activities as needed. This includes checking sensor functionality, replacing sensors if necessary, and updating software or firmware. Workplan:

Week	Task			
Feb 1-7	Pre-existing Solutions			
Feb 8-14	Rapid Prototyping			
Feb 15-21	Off-the-Shelf Components			
Feb 22-28 Simple Alert System				
Mar 1-7	Basic User Interface			
Mar 8-14	Limited Connectivity			
Mar 15-21	Development for detecting on Ammonia/H2S			
Mar 22-28	Basic Power Setup			
Mar 29-31 Testing and Iteration				

Plan of action:

- Week 1: Research and identify suitable gas sensors for detecting ammonia and hydrogen sulfide gases in poultry farms.
- Week 2: Consider factors such as farm size, ventilation systems, and potential gas emission sources when determining sensor placement.

Week 3: Set up a data acquisition system to collect and process real-time data from the gas sensors.

Week 4: Define threshold limits for ammonia and hydrogen sulfide gas concentrations based on relevant regulations and guidelines.

Week 5: Document the entire process, including sensor installation, data acquisition setup, and alert system configuration.

List of Facilities available in the college to develop the prototype of the Project:

Power Electronics, Simulation Software and Testing Equipments.

Nature of Industry Support for the project

Greens of Technology

Details of Financial assistance required:

Category	Description	Estimated Cost (Rs.)
Data Collection Infrastructure	Basic sensors or low-cost data collection devices.	2,500
Model Development	Machine Learning using pre-existing models or frameworks.	7,500
Connectivity and Cloud Services	Wi-Fi or IOT connectivity and Data Storage	2,500
Documentation Development	Documentation and manuals	3000
Testing and Prototyping	Testing components and prototypes	3000
Miscellaneous	Cables and Connectors	1500
Total Estimated Budget	Estimated Budget	20,000

Expected results:

- 1. Efficient Gas Emission Detection: Successful development and implementation of a sensor model capable of accurately detecting ammonia and H₂S gas emissions from bird litter in poultry farms
- 2. **Real-time Monitoring System**: Establishment of a real-time monitoring system that continuously assesses gas levels, providing immediate feedback on environmental conditions within poultry facilities.
- 3. Alert System Implementation:Integration of an alert system that triggers notifications when gas emissions exceed predefined limits, enabling timely intervention and mitigation measures.
- 4. **Reduced Odor and Fly Issues**: Mitigation of odor and fly issues associated with ammonia and H2S emissions, contributing to a more hygienic and pleasant environment for both poultry and farm workers.
- 5. **Improved Environmental Compliance:**Enhanced adherence to environmental regulations and standards related to gas emissions in the poultry sector, promoting sustainable and responsible farming practices.
- 6. **Positive Environmental Impact:**Overall reduction in the environmental impact of poultry farming through the efficient management of hazardous gas emissions, contributing to a more sustainable agricultural sector
- **7.Industry Adoption:**Encouragement of industry-wide adoption of the SmartPoultryGuard system, establishing it as a standard for addressing gas emissions in poultry facilities.

UNDERTAKING

- 1. The college will provide the basic infrastructure and other required facilities to the students for timely completion of their projects.
- 2. The college assumes to undertake the financial and other management responsibilities of the project.
- 3. The college will ensure that the funds provided are utilized only for the purpose provided and any remaining amount will be returned back to the University after the time of completion of the project.

Signature of the Mentor

J. 131/1/2024.

Signature and seal of the Principal

PRINCIPAL

Kings College of Engineering PUNALKULAM - 613 303.







TAMILNADU SKILL DEVELOPMENT CORPORATION

Naan Mudhalvan Niral Thiruvizha

Declaration Form

1. Name of the College : KINGS COLLEGE OF ENGINEERING

2. College Code : 8211

3. Theme: Clean & Green Technology

4. Problem Statement: How can we create an Automatic sensor model to address ammonia / H2S gas emission from bird litter in the poultry sector, managing odour and fly issues? The goal is to assess gas emissions and trigger alerts when limits are exceeded, prompting necessary measures for effective management.

5. Faculty Guide Details: S.R.Karthikeyan,

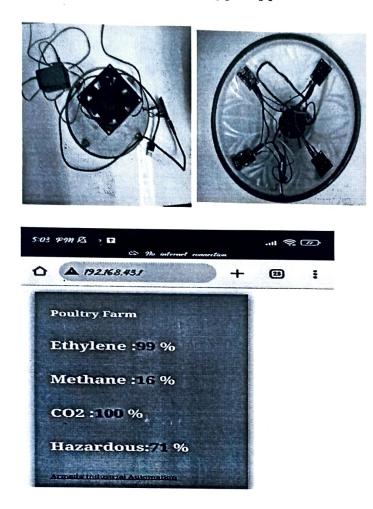
Assistant Professor / EEE

Mobile No. 9790469427

E-Mail ID: karthikeyan.eee@kingsengg.edu.in

TeamLeaderName	Reg.No Yea		Department	MobileNo					
1. L.Sowmiya	821120105029	IV	EEE	8220094107					
Teammembers									
1. D.Sivaranjani	821120105026	IV	EEE	6382394531					
2. K.Sowmiya	821120105028	IV	EEE	8072997927					
3. J.Viji	821120105032	IV	EEE	9787041359					

6. Attach photos of the prototype/App/Software:



7. Attach photos of the 2^{nd} review being conducted:





2 | Page3

UNDERTAKING

- 1. The college will provide the basic infrastructure and other required facilities to the students for timely completion of their projects.
- 2. The college will undertake the financial and other management responsibilities of the project also; college will be responsible in following the time lines.
- 3. The college will ensure that the funds provided are utilized only for the purpose provided and any remaining amount will be returned back to the University after the time of completion of the project.
- 4. I hereby declare that the details furnished above are true and correct.

J. R. 65 Thur 26 |04 | 24

Signature of Faculty Guide

S.R. KARTHIKEYAN

APIEEE - Kings college of Enggy

8 211125 - AU code

J. Ment 120 24

Signature of Principal

PRINCIPAL Kings College of Engineering, PUNALKULAM - 613 303





Niral Thiruvizha 2024 - Evaluation Schedule



	-	Niral Thiruvizha 2024 - Evaluation Schedule								PRODRESS THROUGH KNOWLEDGE
S.No	Zo	one NMNT Team ID	Team Lead - Student Name	Team Lead - Register Number	VENUE	DATE	FN/AN	Team Lead - Department	Faculty Guide Name	College Code & College Name
1	Chenn	nai - 1 NMNT001	EMMANUEL F	110820104007	Anna University, CEG Campus, Guindy	26-06-2024	FN	Computer Science and Engineering	Mr J Lin Eby Chandra	1108-JAYA ENGINEERING COLLEGE
2	Chenn	nai - 1 NMNT002	Nanda kumar JP	113120UG7303	Anna University, CEG Campus, Guindy	26-06-2024	FN	Information Technology	Mr.S.Johnpaul	1118-Veltech Multitech Dr. Rangarajan Dr. Sakunthala Engineering College
3	Chenn	nai - 1 NMNT003	G.Yogeshwaran	210220104032	Anna University, CEG Campus, Guindy	26-06-2024	FN	CSE	R. SUDHA	2102-APOLLO ENGINEERING COLLEGE
4	Chenn	nai - 1 NMNT004	Swathisri R	210420205062	Anna University, CEG Campus, Guindy	26-06-2024	FN	Information Technology	T N Charanya	2104-CHENNAI INSTITUTE OF TECHNOLOGY
5	Chenn	nai - 1 NMNT005	SHAKTHI A P	200701230	Anna University, CEG Campus, Guindy	26-06-2024	AN	CSE	Dr.M.Rakeshkumar	2116-RAJALAKSHMI ENGINEERING COLLEGE
6	Chenn	nai - 1 NMNT006	Yashwant D B	200701299	Anna University, CEG Campus, Guindy	26-06-2024	AN	Computer Science and Engineering	Dr.T.Kumaragurubaran	2116-RAJALAKSHMI ENGINEERING COLLEGE
7	Chenn	nai - 1 NMNT007	Sushil Mane M	200701268	Anna University, CEG Campus, Guindy	26-06-2024	AN	Computer Science and Engineering	Dr.T.Kumaragurubaran	2116-RAJALAKSHMI ENGINEERING COLLEGE
8	Chenn	nai - 1 NMNT008	Ananyaa Sanjeev	310620205006	Anna University, CEG Campus, Guindy	26-06-2024	AN	Information Technology	Dr. K. Johny Elma	3106-EASWARI ENGINEERING COLLEGE
9	Chenn	nai - 1 NMNT009	Thaswin Meshak A	311120205058	Anna University, CEG Campus, Guindy	26-06-2024	AN	Information Technology	Dr. R. Juliana	3111-LOYOLA - ICAM COLLEGE OF ENGINEERING AND TECHNOLOGY
10	Chenn	nai - 1 NMNT010	Danush Athithya R.K.	311120104015	Anna University, CEG Campus, Guindy	26-06-2024	AN	Computer Science and Engineering	Dr V J Sharmila	3111-LOYOLA - ICAM COLLEGE OF ENGINEERING AND TECHNOLOGY
11	Chenn	nai - 1 NMNT011	Gayathri N	312320104041	Anna University, CEG Campus, Guindy	26-06-2024	FN	Computer Science and Engineering	S NIRESH KUMAR	3123-ST.JOSEPH'S COLLEGE OF ENGINEERING
12	Chenn	nai - 1 NMNT012	NaveenKumar V	200801138	Anna University, MIT Campus, Chrompet	26-06-2024	AN	ECE	Dr.R.Gayathri	2116-RAJALAKSHMI ENGINEERING COLLEGE
13	Chenn	nai - 1 NMNT013	H S Dhanush	212220020014	Anna University, MIT Campus, Chrompet	26-06-2024	AN	Biomedical Engineering	Dr.Vinuraj Kumar S	2122-Saveetha Engineering college (Autonomous)
14	Chenn	nai - 1 NMNT014	Aadesh Vijayaraghavan	2127200502001	Anna University, MIT Campus, Chrompet	26-06-2024	AN	CSE[IV B.Tech AD]	Dr R Jayabhaduri	2127-SRI VENKATESWARA COLLEGE OF ENGINEERING
15	Chenn	nai - 1 NMNT015	M.Thirumalai Raj	310620106138	Anna University, MIT Campus, Chrompet	26-06-2024	AN	ECE	Mrs . S. Uma Maheswari	3106-EASWARI ENGINEERING COLLEGE
16	Chenn	nai - 1 NMNT016	Keerthi U	412420243016	Anna University, MIT Campus, Chrompet	26-06-2024	AN	AI&DS	Dr. Su. suganthi	4124-Sri Sai Ram Institute of Technology
17	Chenn	nai - 1 NMNT017	S.Sundarraj	113120UG07096	Anna University, CEG Campus, Guindy	27-06-2024	FN	Information Technology	Dr.M.Rajesh Khanna	1118-Veltech Multitech Dr. Rangarajan Dr. Sakunthala Engineering College
18	Chenn	nai - 1 NMNT018	S Daniel joseph	113120ug01009	Anna University, CEG Campus, Guindy	27-06-2024	FN	BME	Dr.N.Bharathiraja	1118-Veltech Multitech Dr. Rangarajan Dr. Sakunthala Engineering College
19	Chenn	nai - 1 NMNT019	Daniel Joseph S	113120UG01009	Anna University, CEG Campus, Guindy	27-06-2024	FN	вме	Dr.N.Bharathiraja	1118-Veltech Multitech Dr. Rangarajan Dr. Sakunthala Engineering College
20	Chenn	nai - 1 NMNT020	Mehjabeen Tabasum.M	113320106026	Anna University, CEG Campus, Guindy	27-06-2024	FN	ECE	Dr.K.MENAKA	1133-Velammal Institute of Technology
21	Chenn	nai - 1 NMNT021	Gobiharun T	113320205012	Anna University, CEG Campus, Guindy	27-06-2024	FN	Information Technology	DURGA DEVI.G	1133-Velammal Institute of Technology
22	Chenn	nai - 1 NMNT022	POORVIKA R	212020121016	Anna University, CEG Campus, Guindy	27-06-2024	FN	Biomedical engineering	N.Malligeswari	2120-SKR Engineering College
23	Chenn	nai - 1 NMNT023	SANTHOSH MANIKANDAN M	310620205086	Anna University, CEG Campus, Guindy	27-06-2024	FN	П	Mrs. Anusha S	3106-EASWARI ENGINEERING COLLEGE
24	Chenn	nai - 1 NMNT024	Sharon Flora P	310620121044	Anna University, CEG Campus, Guindy	27-06-2024	FN	Biomedical Engineering	Dr.G.Babu	3106-EASWARI ENGINEERING COLLEGE
25	Chenn	nai - 1 NMNT025	Harini.S	113220041047	Anna University, CEG Campus, Guindy	26-06-2024	FN	ECE	Mrs.Kavitha	1132-Velammal Engineering College
26	Chenn	nai - 1 NMNT026	Harshithan K S	311020205027	Anna University, CEG Campus, Guindy	26-06-2024	FN	Information Technology	Ms KRITHIKAA VENKET V	3110-KCG College of Technology
27	Chenn	nai - 1 NMNT027	Triesha Kenneth	311120104060	Anna University, CEG Campus, Guindy	26-06-2024	AN	Computer Science and Engineering	Prof. S Nirmala	3111-LOYOLA - ICAM COLLEGE OF ENGINEERING AND TECHNOLOGY
28	Chenn	nai - 1 NMNT028	Alfred Jerome G	311120105002	Anna University, CEG Campus, Guindy	26-06-2024	AN	EEE	Mr. A. Infantraj	3111-LOYOLA - ICAM COLLEGE OF ENGINEERING AND TECHNOLOGY
29	Chenn	nai - 1 NMNT029	Vijay K	311120205060	Anna University, CEG Campus, Guindy	26-06-2024	AN	ІТ	Ms. E. Anitha	3111-LOYOLA - ICAM COLLEGE OF ENGINEERING AND TECHNOLOGY
30	Chenn	nai - 1 NMNT030	Gautham S	311120104017	Anna University, CEG Campus, Guindy	26-06-2024	AN	Computer Science and Engineering	Ms J Christina	3111-LOYOLA - ICAM COLLEGE OF ENGINEERING AND TECHNOLOGY
31	Chenn	nai - 1 NMNT031	RAJESHWARI P	111720104124	Anna University, CEG Campus, Guindy	26-06-2024	FN	DEPARTMENT OF ECE	Dr.M.S.Kavitha	1113-R.M.K.Engineering College
32	Chenn	nai - 1 NMNT032	Varsha V	113221072057	Anna University, CEG Campus, Guindy	26-06-2024	FN	Aritifical Intelligence and Data Science	Mrs.A.Prema	1132-Velammal Engineering College
33	Chenn	nai - 1 NMNT033	Thiyaneshwar K	210420244057	Anna University, CEG Campus, Guindy	26-06-2024	FN	Computer science and Business Systems	Dr.N.Kirubakaran	2104-CHENNAI INSTITUTE OF TECHNOLOGY
34	Chenn	nai - 1 NMNT034	Siva Harish M	312320105121	Anna University, CEG Campus, Guindy	26-06-2024	FN	EEE	JAYARAMA PRADEEP	3123-ST.JOSEPH'S COLLEGE OF ENGINEERING
35	Chenn	nai - 1 NMNT035	R Sivakumar	412520112025	Anna University, CEG Campus, Guindy	26-06-2024	AN	ICE	Mrs.Uma Maheswari.B	4125-Sri Sairam Engineering College
36	Chenn	nai - 1 NMNT036	MUKESHWARAN A	412520105040	Anna University, CEG Campus, Guindy	26-06-2024	AN	EEE	Dr.A.Sanjeevi Gandhi	4125-Sri Sairam Engineering College
37	Chenn	nai - 1 NMNT037	Soundharya R	211120106004	Anna University, MIT Campus, Chrompet	26-06-2024	AN	ECE	Joy Merline C G	2111-MADHA ENGINEERING COLLEGE
38	Chenn	nai - 1 NMNT038	Harshavarthini G	2116200301025	Anna University, MIT Campus, Chrompet	26-06-2024	AN	Biomedical Engineering	Dr.N.Padmasini	2116-RAJALAKSHMI ENGINEERING COLLEGE
39	Chenn	nai - 1 NMNT039	SAM ABHISHEK A C	412520104129	Anna University, MIT Campus, Chrompet	26-06-2024	AN	CSE	Mrs.HEMAVATHI.S	4125-Sri Sairam Engineering College

	T I	I		1 1	1	I	
334 Tirunelveli NMNT334	E.G.Rajalakshmi	963320103074	Government College of Engineering, Tirunelveli	25-06-2024 FN	Civil engineering	B.EASVARA THAYA BALAN	9633-ROHINI COLLEGE OF ENGINEERING AND TECHNOLOGY
335 Tirunelveli NMNT335	Vignesh K	950820105049	Government College of Engineering, Tirunelveli	25-06-2024 AN	EEE	Prof.M.Balasubramanian	9508-Government College of Engineering
336 Tirunelveli NMNT336	Emi Kinciya C	961520104008	Government College of Engineering, Tirunelveli	25-06-2024 FN	CSE	BIJU A	9615-MARIA COLLEGE OF ENGINEERING AND TECHNOLOGY
337 Tirunelveli NMNT337	Jino.N	961820104054	Government College of Engineering, Tirunelveli	26-06-2024 AN	Computer science and Engineering	Manchu M	9618-PONJESLY COLLEGE OF ENGINEERING
338 Tirunelveli NMNT338	M.Maria Sneka	960620104014	Government College of Engineering, Tirunelveli	26-06-2024 AN	CSE	S Reny	9606-DMI ENGINEERING COLLEGE
339 Tirunelveli NMNT339	R.Nithyajothi	961820104068	Government College of Engineering, Tirunelveli	26-06-2024 AN	Computer Science and Engineering	Raja Sugirtha	9618-PONJESLY COLLEGE OF ENGINEERING
340 Tirunelveli NMNT340	Malvin Reno A	962220114321	Government College of Engineering, Tirunelveli	25-06-2024 FN	Mechanical Engineering	Ajith J. Kings	9622-St.Xavier's Catholic College of Engineering
341 Tirunelveli NMNT341	SUSHMA A R	962820105039	Government College of Engineering, Tirunelveli	25-06-2024 FN	ELECTRICAL AND ELECTRONICS ENGINEERING	Dr.C.Mythili	9628-UNIVERSITY COLLEGE OF ENGINEERING, NAGERCOIL
342 Tirunelveli NMNT342	Ms. Nanthini M R	962320106031	Government College of Engineering, Tirunelveli	26-06-2024 AN	Electronics and Communication Engineering	Sarika A S	9623-AMRITA COLLEGE OF ENGINEERING AND TECHNOLOGY
343 Tirunelveli NMNT343	P. Nithish	962220104086	Government College of Engineering, Tirunelveli	26-06-2024 AN	Computer Science and Engineering	Barona R	9622-St.Xavier's Catholic College of Engineering
344 Tirunelveli NMNT344	Jeya Pratheksha J	963520103009	Government College of Engineering, Tirunelveli	25-06-2024 FN	CIVIL ENGINEERING	Mrs. N. Agnes Flora	9635-STELLA MARY'S COLLEGE OF ENGINEERING
345 Tirunelveli NMNT345	S M Anto Ashwin	960620114002	Government College of Engineering, Tirunelveli	25-06-2024 FN	Mechanical Engineering	J.Jesumenon	9606-DMI ENGINEERING COLLEGE
346 Tirunelveli NMNT346	Leena Gifty S	950820106039	Government College of Engineering, Tirunelveli	26-06-2024 AN	Electronics and Communication Engineering	Dr E.Sivaraman	9508-Government College of Engineering
347 Tirunelveli NMNT347	Sruthi R	950020106044	Government College of Engineering, Tirunelveli	25-06-2024 AN	ECE	Dr. K. Usha Kingsly Devi	9500-ANNA UNIVERSITY REGIONAL CAMPUS, TIRUNELVELI
348 Tirunelveli NMNT348	Angel L	950020106003	Government College of Engineering, Tirunelveli	25-06-2024 AN	ECE	Dr. K. Usha Kingsly Devi	9500-ANNA UNIVERSITY REGIONAL CAMPUS, TIRUNELVELI
349 Tirunelveli NMNT349	SUTHARSAN P	950620114017	Government College of Engineering, Tirunelveli	26-06-2024 AN	Mechanical Engineering	VENKATESH A	9506-EINSTEIN COLLEGE OF ENGINEERING
350 Tirunelveli NMNT350	Syed Mohamed Sahir	950820114093	Government College of Engineering, Tirunelveli	25-06-2024 AN	Mechanical	Dr.V.Asha Melba	9508-Government College of Engineering
351 Tirunelveli NMNT351	Salomonkumar C	952820104056	Government College of Engineering, Tirunelveli	26-06-2024 AN	CSE	Mrs.Margret	9528-SCAD College of Engineering and Technology
352 Tirunelveli NMNT352	Shivani S	95072014091	Government College of Engineering, Tirunelveli	25-06-2024 AN	ECE	Dr.R.Prem Ananth	9507-FRANCIS XAVIER ENGINEERING COLLEGE
353 Tirunelveli NMNT353	Sharmila M	950820105041	Government College of Engineering, Tirunelveli	25-06-2024 AN	EEE	Dr.P.Subha Karuvelam	9508-Government College of Engineering
354 Tirunelveli NMNT354	B. Mahesh Muthu	963220104028	Government College of Engineering, Tirunelveli	25-06-2024 AN	CSE	Mrs. B Shanmuga Sundari	9632-PET ENGINEERING COLLEGE, VALLIOOR
355 Trichy NMNT355	BARATH ANTONYA	911620114304	University College of Engineering, BIT Campus, Trichy	26-06-2024 AN	MECHANICAL	P THIRUMURUGAN	9116-MOTHER TERASA COLLEGE OF ENGINEERING AND TECHNOLOGY
356 Trichy NMNT356	M.Muthupandi	911720114010	University College of Engineering, BIT Campus, Trichy	26-06-2024 AN	Mechanical	Mr.S.Sundaravignesh	9117-MOUNT ZION COLLEGE OF ENGINEERING AND TECHNOLOGY
357 Trichy NMNT357	1.L.Sowmiya	821120105029	University College of Engineering, BIT Campus, Trichy	26-06-2024 AN	Electrical and Electronics Engineering	Mr. S.R. Karthikeyan	8211-Kings College of Engineering
358 Trichy NMNT358	Meenusree N	822720103022	University College of Engineering, BIT Campus, Trichy	26-06-2024 AN	Civil Engineering	Dr.S.Sumathi	8227-GOVERNMENT COLLEGE OF ENGINEERING, THANJAVUR
359 Trichy NMNT359	SARAN RAJ E	8117201114327	University College of Engineering, BIT Campus, Trichy	26-06-2024 FN	MECHANICAL	Mr.G.SATHISH KUMAR	8117-K.Ramakrishnan College of Technology
360 Trichy NMNT360	Sankaranarayanan.K	812120101022	University College of Engineering, BIT Campus, Trichy	26-06-2024 FN	Aeronautical Engineering	Mr.V.Joseph Arun Prasath	8121-M.A.M. SCHOOL OF ENGINEERING
361 Trichy NMNT361	K.Yuvaraj	811720103029	University College of Engineering, BIT Campus, Trichy	26-06-2024 FN	Civil Engineering	Mr.A.OORKALAN	8117-K.Ramakrishnan College of Technology
362 Trichy NMNT362	A.RAGHUL	813820103016	University College of Engineering, BIT Campus, Trichy	26-06-2024 FN	CIVIL	Ms.Vaishali.P	8138-SARANATHAN COLLEGE OF ENGINEERING
363 Trichy NMNT363	Ms.M.DEVABHARATHY	814720106022	University College of Engineering, BIT Campus, Trichy	26-06-2024 FN	ECE	AISWARYA KANNAN	8147-SRM TRP ENGINEERING COLLEGE
364 Trichy NMNT364	ARUN KUMAR R	9080369015	University College of Engineering, BIT Campus, Trichy	26-06-2024 FN	Mechanical Engineering	Mr.S.Jeeva	8120-M.A.M. COLLEGE OF ENGINEERING AND TECHNOLOGY
365 Trichy NMNT365	Sanjay S	812020114018	University College of Engineering, BIT Campus, Trichy	26-06-2024 FN	Mechanical Engineering	Dr. S. Roseline	8120-M.A.M. COLLEGE OF ENGINEERING AND TECHNOLOGY
366 Trichy NMNT366	Shreeram. R. R	8115U22EC106	University College of Engineering, BIT Campus, Trichy	26-06-2024 FN	Electronics and Communication Engineering	Dr. B. Viswanathan	8115-K. RAMAKRISHNAN COLLEGE OF ENGINEERING
367 Trichy NMNT367	GURU BHAVANI A	812020106009	University College of Engineering, BIT Campus, Trichy	26-06-2024 FN	Electronic and communication Engineering	Mr. A. Syed Abdul Salam	8120-M.A.M. COLLEGE OF ENGINEERING AND TECHNOLOGY
368 Trichy NMNT368	Kamalini V	621320103019	University College of Engineering, BIT Campus, Trichy	26-06-2024 FN	Civil Engineering	Dr.N.Sridhar	6213-Kongunadu College of Engineering and Technology
369 Trichy NMNT369	S.Dharani	820420203003	University College of Engineering, BIT Campus, Trichy	26-06-2024 AN	Chemical Engineering	Mrs. D.K . Shanmugapriya	8204-ANJALAI AMMAL MAHALINGAM ENGINEERING COLLEGE
370 Chennai - 1 NMNT370	Joe Sebastian L	311120104023	Anna University, CEG Campus, Guindy	25-06-2024 FN	CSE	Mr. B. R. Sathish	3111-LOYOLA - ICAM COLLEGE OF ENGINEERING AND TECHNOLOGY
371 Chennai - 1 NMNT371	Thirumalai N	113220031156	Anna University, CEG Campus, Guindy	25-06-2024 FN	Computer Science and Engineering	Dr.B.Murugeshwari	1132-Velammal Engineering College
372 Chennai - 1 NMNT372	Jefna Besvi B	311120205027	Anna University, CEG Campus, Guindy	25-06-2024 FN	ІТ	Ms. V. Viancy	3111-LOYOLA - ICAM COLLEGE OF ENGINEERING AND TECHNOLOGY
373 Chennai - 1 NMNT373	Meenakshi Sundaram C	311120104035	Anna University, CEG Campus, Guindy	25-06-2024 FN	CSE	Dr. P. Arulmozhi	3111-LOYOLA - ICAM COLLEGE OF ENGINEERING AND TECHNOLOGY
374 Chennai - 1 NMNT374	Mercy Kiruba G	312420104104	Anna University, CEG Campus, Guindy	25-06-2024 FN	CSE	Mrs. K. Jaspin	3124-ST.JOSEPH'S INSTITUTE OF TECHNOLOGY
375 Chennai - 1 NMNT375	MONIKA N	312420106069	Anna University, CEG Campus, Guindy	25-06-2024 FN	ELECTRONICS AND COMMUNICATION ENGINEERING	Mrs.G.Akilandeswary	3124-ST.JOSEPH'S INSTITUTE OF TECHNOLOGY
						l .	

PRE-RECEIPT

College Name : 8211 - Kings conlege of Engineering

Project Title : Smart Poultry Courd

Faculty Guide : Mr. S.R. KARTHIKEYAN

Name of the students:

	tune of the bladerio.				
Sl.No.	Reg. No.	Name	Branch	Mobile No.	
1.	821120105	D. Sivaranjani	EEE	63 82394531	
2.	821120105	K. sowmiya	EEE	8072997927	
3.	821120105	L. sowniya	EEE	8220094107	
4 .	821120105	J. VIII	EEE	9787041359	

Received a sum of Rs.10,000/- (Rupees Ten thousand Only) sanctioned by TNSDC under Niral Thiruvizha Scheme through Centre for Sponsored Research and Consultancy (CSRC), Anna University towards the financial assistance for the project details indicated above. Certified further the same will be transferred to the above student concerned.

Account Holder Name : Dr. J. Aruputha Vijaya Selvi

Account No. : 1364020000066)

Bank Name & Branch : Indian over seas Bank, North main st,

IFSC : <u>TobAooo 1364</u>

Note: The bank account should be the official account of the college principal, rather than an individual account, enclose copy of cheque leaf for validation.

J. X boor Thiley

Name and Sign of the Faculty Advisor

S.R. KARTHIKEYAN

Place: Punal Kulam Date: 01/07/2024 J. 1804 17/2024

Name and Sign of the Principal with seal

ollege Seat DI

Bill Passed for the amount of Rs.______/- (Rupees _____Only)

BILL SUMMARY

Niral Thiruvizha ID: NMNT 357

College Name

: 8211 - Kings college of Engineering

Project Title

: Smart Poultry course

Faculty Guide

: MY S. R. KARTHIKEYAN

Name of the students:

Sl.No.		Name	Branch	Mobile No.
ι,	821120105	D. Sivaranjani	EEE	6382394531
2.	821120105	K. Sowmuja	EEE	8072997927
3.	821120105	L. Sowmung	EEE	8220094107
Ц,	821120105	J. viii	EEE	9787041359

Sl.No.	Bill No.	Bill Date	Description	Amount
1.	AIA/E/03/03	07/03/2024	Micro Controller	2800.00
2،	ATA/E/03/03	07/03/2024	FD Fan Motor	1800.00
3-	AIA/E/03/03	07/03/2024	Sensons	4600.00
4.	AIA/E/03/03	07/03/2024	De Power Adaptor	300.00
5.	AJA/E/03/03	07/03/2024	Mechanical Structure	1400.00
6.	AIA E 03 03	07/03/2024	Wiring kit	300.00
٦.	AIA/E/03/03	07/03/2024	Interfacing Relay kit 4ch	00.00F
8	AIA E 03 03	07/03/2024	Buzzer	200.00
			TOTAL	12,100.00

(Rupees Twelve Thousand and Hundred Only)

5, 8, boothery

Name and Sign of the Faculty Advisor

S.R. KARTHIKEYAN

Place: Punalkulam Date: 01/07/2024

Name and Sign of the Finance Officer / Auditor / Accounts

Officer with seal

MANAGER (Accounts) KINGS COLLEGE OF ENGINEERING PUNALKULAM - 613 303. GANDARVAKOTIAI TALUK, PUDUKOTTAI DISTRICT. Name and Sign

of the Principal with seal PUNALKULAM-613 30:

UTILISATION CERTIFICATE

Niral Thiruvizha ID	NMNT357
---------------------	---------

College Name : 8211 - K

: 8211- Kings College of Engineering

Project Title : Smart Poultry Guard

Faculty Guide : MY. S.R. KARTHIKEYAN

Name of the students:

	The state of the s				
Sl.No.	Reg. No.	Name	Branch	Mobile No.	
1.	821120105	D. Sivaranjani	EEE	6382394531	
2.	821120105	10.0	EEE	8072997927	
3.	821120105	L. Sowmuje	EEE	8220094107	
4.	821120105		EEE	9787041359	

Certified that out of Rs.10,000/- (Rupees Ten thousand Only) sanctioned by TNSDC under Niral Thiruvizha Scheme through Centre for Sponsored Research and Consultancy (CSRC), Anna University towards the financial assistance for the project details indicated above, an amount of Rs. 12,100 /- (Rupees Twelve Thousand and One Hunchted only) was utilised for the purpose for which it was sanctioned, leaving a balance of Rs. _____/- (Rupees only).

Certified that I have satisfied myself that the conditions on which the grant-inaid was sanctioned have been duly fulfilled and that I have exercised the necessary checks to see that the money was actually utilized for the purpose for which it was sanctioned.

J. N. bosthuir

Name and Sign of the Faculty Advisor S.R.KARTHIKEYAN

Place: Punalkulam Date: 01/07/2024 Name and Sign of the Finance Officer / Auditor / Accounts Officer with seal

MANAGER (Accounts)

WINGS COLLEGE OF ENGINEERING

FUNALKULAM 613 303.

GANDARVAKOTTAL TALUK, PUDUKOTTAL DISTRICT.

Name and Sign of the Principal with seal

J. 10004 12 2024











Certificate OF PARTICIPATION

This is to certify that

Mr. /Mc	Mr. S.R. Karthikeyan
Mr./Ms	Mr. S.R. Karthikeyan

from Kings College of Engineering

has participated as Faculty Guide in the Niral Thiruvizha (Hackathon) Competition



MANAGING DIRECTOR

Tamil Nadu Skill Development Corporation (TNSkills)

ORGANISED BY:

Tamil Nadu Skill Development Corporation (TN Skills) under the aegis of Special Programme Implementation Department, Government of Tamil Nadu



TAMILNADU COUNCIL FOR SCIENCE AND TECHNOLOGY

(Established by Government of Tamilnadu)

Directorate of Technical Education Campus, Chennai 600 025 Ph: 044-2230 1428 www.tanscst.tn.gov.in Email ms.tanscst@nic.in

Prof. Dr. S. Vincent, D.Sc., PhD., MNASc, FNABS, FRSB(Lon)

Member Secretary

01.10.2024

Lr.No.TNSCST/SPS 2023-2024/ 3106A /01

To

The Principal
Kings College of Engineering
Punalkulam, Pudukkottai-613 303

0 9 UL: 2024 5

Sir/Madam,

Sub:

TNSCST - Student Project Scheme (2023-2024) - approval intimation-grant

release- Reg.

With respect to the above scheme, the list of project(s) approved by the State Council is enclosed, along with the terms and conditions. Guides are requested to adhere to these terms and conditions, including the timely submission of the Utilization Certificate (UC) and the seminar paper on or before 25.10.2024.

We trust that your students have successfully completed the project. Please inform the guides to submit the Utilization Certificate and the seminar paper in accordance with the terms and conditions specified in items 5 and 6. Kindly note that the grant will be released only upon receipt of both the UC and the seminar paper. Additionally, provide the institution's bank details (Account holder name, Account Number, IFSC code, and Branch name) to facilitate the transfer of the grant via NEFT. The grant should then be promptly disbursed to the concerned students through their respective guides.

Thanking you,

Yours faithfully

Member Secretary

Encl: a) List of the approved SPS Projects 2023-24

- b) Terms & Conditions (T&C)
- c) Format of Utilization Certificate (UC)
- d) Model Seminar Paper (SP)



TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

DOTE Campus, Chennai- 25

Student Project Scheme 2023-24

List of Approved Project(s)

S.No	Guide Name and Institutional Address	Title of the Project	Students Name	Project Code	Head of the Institution	Grant Amount
1	W.Newton David Raj, Assistant professor, Dept. of ECE, Kings College of Engineering, Punalkulam, Pudukkottai- 613 303	Smart and safe rescue system for children trapped in open borewell	Keertiga S,, Jothika G,, Shanmugapriya V.,	EEE-1342	The Principal	Rs 7500
2	Dr. A. Albert Martin Ruban., Associate Professor, Dept. of EEE, Kings College of Engineering, Punalkulam, Pudukkottai- 613 303	Intelligence based smart borewell child rescue system	Akash M,, Aravindh A,, Gushendra Prasath P,, Sudharsan S.	EEE-1356	The Principal	Rs 7500
3	Mr.R.Rajadurai, Assistant Professor, Dept. of Mechanical Engg., Kings College of Engineering, Punalkulam, Pudukkottai- 613 303	Design and fabrication of automatic fertilizer sprayer with weeder using proxmity sensor	Shanmuga bharathi. S, Saravanan. A, Harish Ragavendra.M, Kabilan. M	EME-1328	The Principal	Rs 5500
	010 000				Total	Rs 20500

TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY DOTE Campus, Chennai - 600 025

STUDENT PROJECT SCHEME 2023-2024 UTILIZATION CERTIFICATE

1. Name of the guide and address

Dr. A.Albert Martin Ruban,

Associate Professor,

Dept of EEE,

Kings College of Engineering,

Punalkulam,

Pudukkottai-613 303

2. Name of the student(s)

Akash.M,

Aravindh A,

Gushendra prasath P,

Sudharsan S.

3. Title of the project

: Intelligence Based Smart Borewell Child Rescue System

4. Project code

EEE-1356

It is certified that a sum of Rs 7500/- (Rupees Seven Thousands Five Hundred) 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 NIL remaining unutilized is refunded.

Signature of the HOD

Mr. R. Sundaramoorthi HOD - EEE

Kings College of Engineering (Autonomous) Punalkulam - 613 303

Signature of the Principal

with SEAL

Principal

Kings College of Engineering (Autenemeus) Punalkulam - 613 303



PROPOSAL FOR THE GRANT of STUDENT PROJECT SCHEME



on

(TNSCST)

INTELIGENCE BASED SMART BOREWELL CHILD RESCUE SYSTEM

Submitted to

TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

DOTE CAMPUS,

CHENNAI- 600 025.

Submitted by

AKASH.M(821120105008)

ARAVINDH.A(821120105005)

GUSHENDRAPRASATH.P(821120105008)

SUDHARSAN.S (821120105030)



Department of Electrical and Electronics Engineering Kings College of Engineering



Approved by AICTE New Delhi & Affiliated to Anna University Chennai

Accredited by NAAC with 'B++' Grade, Recognised under 2(f) and 2(B) of UGC

Punalkulam – 613303, Tamilnadu, India

PROPOSAL FOR THE GRANT

of

STUDENT PROJECT SCHEME (TNSCST)

on

"INDELIGENCE BASED SMART BOREWELL CHILD RESCUE SYSTEM"

CONTENTS

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1	Application for Science & Technology Projects	1
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1.2	objective	2
1.3	Methodology	2
1.4	Work plan	3
1.5	Budget	4
1.6	Conclusion	4

Name of the Students :

S.No	Name	E-mail ID
1.	AKASH.M	akashakash19071@gmail.com
2.	ARAVINDH.A	aravindhbe2002@gmail.com
3.	GUSHENDRA PRASATH.P	www.gushendraprasath4g@gmail.com
4	SUDHARSAN.S	sansudhar420@gmail.com

Name of the Guide : Dr. A.Albert Martin Ruban.M.E.,Ph.D.,

Department / Designation : Associate professor, Department of EEE

Institutional address : Kings College of Engineering, Punalkulam, Gandarvakottai

taluk, Pudukkottai district-613303

Phone No & Mobile No. : 91594 89328,9791469724,8778683334, 95978 23993

Project Title : INDELIGENCE BASED SMART BOREWELL CHILD RESCUE

SYSTEM

Sector in which your Project proposal is to be considered: Artificial Intelligence and

Embedded System, Electrical

CERTIFICATE

This is to certify that AKASH.M, ARAVINDH.A, GUSHENDRA PRASATH.P, SUDHARSAN.S are a bonafide final year students of B.E – Electrical and Electronics Engineering of our college and it is also certified that two copies of utilization certificate and final report along with seminar paper will be sent to the Council after completion of the project by the end of April 2024

Signature of the Guide

Signature of the HOD

Signature of the Principal

ANNEXURE - I

INTELIGENCE BASED SMART BOREWELL CHILD RESUE SYSTEM

1.1 INTRODUCTION:

India makes up 16% of the world's population, but has only 4% of the world's fresh water resources. The number of borewell in India is now around twenty-seven million, with borewell accounting for more than 50%. After producing water borewell often remain uncovered, it possible for children to accidentally fall into them is the only cause behind the present sad in India. Many children died in these borewells children's carelessness and playful behaviour this type of accidents most often occurs. The borewell depth of around 700 feet. In this case the rescue of children from deep borewells is challenging and requires more time. There is no way to rescue children from some bore well accidents. To develop a portable, accurate and cost-effective model to rescue the children from borewell accident is the main objective of this project.

1.2 OBJECTIVE:

This project proposes a portable intelligence based on the child rescue in the borewell. The robotic system control will go down the borewell and perform the action which will attach an arms for picking up. In addition, this system can provide oxygen, which can be life saving.

Process of rescue:

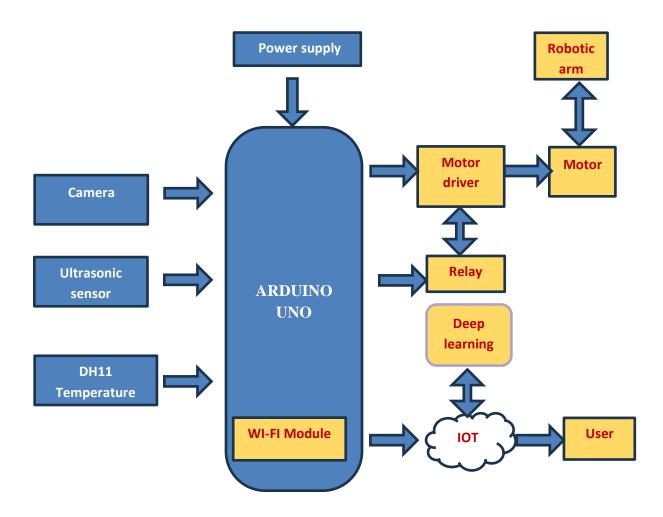
- Identify the child before they fall into a borehole.
- Detect the child after falling into the borewell by sending commands to the borewell rescue system
- A mobile application is used to operate the system based on continuous observations made with IR camera.
- Send commands to the robotic system which activate the appropriate motors and communicate with the system.
- Finally pick up the child from the borewell.

1.3 METHODOLOGY:

In this project the Arduino Uno is the control module and a IR camera module which consists of LCD display, motor driver DC motor, wi-fi module and control switches also. The first step will be able to identify the child before falling into the borewell. After the child falls into the borewell, the next step is to locate him or her. Initially, we will collect datasets such as facial emotions images which will be VGGISH algorithm to analyze a child's facial expressions with image capturing determine child whether or not. Next, we will divide those datasets into different categories, such as training datasets and testing datasets. So, the training dataset first undergoes a process called dataset augmentation, the dataset is multiplied into many datasets undergoes a process called pre-processing. We trained those datasets by removing the highlights using VGGnet learning. If the child is danger music is played to keep the children quiet. It is checking if it responds to the inquiries using the VGGISH deep learning. The temperature of the child is determined by using temperature sensor threshold value is 50 degrees celsius and verify the child is alive. The mobile application display the status of the condition of the child. A tele-conferencing system will also be add to the robot for communicating with the child . The robotic arm is controlled by the motor driver. The motor fixed in the top will control the rope movement (up and down). Remaining two motors fixed in the arm used to open and close the robot arm. An AI-based robot gripper holds the child tightly and takes them out

safely. Also, we can gain a better understanding of the borehole. This will enable us to perceive the child's location and position as well as detect any faults in the pipeline.

BLOCK DIAGRAM:



1.4 WORK PLAN:

S.NO	Preparation and planning	Duration
1	Components purchase	1 month
2	Circuit design and assemble	1 month
3	Circuit testing	1 month
4	Implementation and execution	2 month

1.5 BUDGET:

S.No	Components	Cost - Rs
1	Arduino Uno	1500
2	Motor driver	280
3	Gear Motor (3)	1800
4	Gears	530
5	DH11 sensor	270
6	IR Camera	1534
7	Ultrasonic sensor	180
8	12v battery	1340
9	Speaker	290
10	Relay	270
10	Wi-Fi module	328
10	Other materials	1800
11	Total	10,122

1.6 CONCLUSION:

A robotic frame work for rescue robotics in bore-well environment has been proposed here. To evaluate the results using various parameters, such as training accuracy and validation accuracy. Children's facial emotions were assessed using VGG NET algorithms in this study to determine if they showed changes associated with pneumonia. AI model implementation was carried out using Python programming. Monitors and rescuers of children trapped in borewell were successfully rescued and implemented through the project. Deep learning can detect facial emotions and recognize a child's voice using the current system.





Niral Thiruvizha 2024 Results

S.No College Code	College Name	Theme Name	Faculty Guide	Team Member Name
1 4	Madras Institute of Technology, Anna University	Agritech & Food Technology	Dr. M R Sumalatha	Girish G, Kaillash Kumar S, Sandhiya M, Swetha Das R
2 1113	R.M.K.Engineering College	Agritech & Food Technology	Mr. C. M. Varun	Mukesh Nath G, Udhayakumar R
3 1113	R.M.K.Engineering College	Agritech & Food Technology	Mr.Y.Alexander Jeevanantham	Dinith N N, Ruthran S, Sri Rajesh J, Vignesh Kumar V
4 1113	R.M.K.Engineering College	Agritech & Food Technology	Dr. N.R Gladiss Merlin	G Rohit Sudarsen, Hare Ram C, K Sathvik
5 1113	R.M.K.Engineering College	Agritech & Food Technology	Dr. N.R Gladiss Merlin	Prasenna Vignesh V, Revanth JR, S Mithun Raaj
6 1118	Veltech Multitech Dr. Rangarajan Dr. Sakunthala Engineering College	Agritech & Food Technology	Mrs.S.Sangeetha	HariHaran.N, Karan.M, Mohana Aditiyan.P
7 1118	Veltech Multitech Dr. Rangarajan Dr. Sakunthala Engineering College	Agritech & Food Technology	Dr. M. Selvam	Suganthan. P
8 1130	Vel Tech High Tech Dr.Rangarajan Dr.Sakunthala Engineering College (An Autonomous Institution)	Agritech & Food Technology	Dr.S.Rajamanickam	ABILASH B L, PRAVEEN A, SANTHOSH B, SHYLESH B
9 1133	Velammal Institute of Technology	Agritech & Food Technology	A.PONSANGEETHA	Ajay Kumar K B, Lohith Shyam Sri S, Sathish Kumar M
10 2104	CHENNAI INSTITUTE OF TECHNOLOGY	Agritech & Food Technology	A.TAMILSELVI	BIKKA THARUN KUMAR YADAV, RISHIKESAVAN P S
11 2104	CHENNAI INSTITUTE OF TECHNOLOGY	Agritech & Food Technology	Senthilkumar A	A Ranjith kumar, S Nishanth
12 2104	CHENNAI INSTITUTE OF TECHNOLOGY	Agritech & Food Technology	Harshanya M	Allwin p thomas, S.AAKASH
13 2105	Dmi college of Engineering	Agritech & Food Technology	Dr.D.R.Denslin Brabin	AMRUTHA MERIN SUNNY, HARSHINI N, JOSHNA N, VISHNU PRIYA
14 2106	Jeppiaar Institute of technology	Agritech & Food Technology	Mr.S.Saravanan	Hari Prasanth K, Rahul Rakesh J, Subhash M
15 2114	PANIMALAR ENGINEERING COLLEGE	Agritech & Food Technology	Dr.S.DEEPA	ANISHA G, JAHNAVI K, SUBHIKSHA K, YAMKA DELFIN A
16 2116	RAJALAKSHMI ENGINEERING COLLEGE	Agritech & Food Technology	Dr.R.Shanthi	ESWARA SAI PRAKASH NUNI, EZHILBHARATH, NIVENDRA Y
17 2116	RAJALAKSHMI ENGINEERING COLLEGE	Agritech & Food Technology	Dr.Nithiyanantham K K	Siddarth S
18 2116	RAJALAKSHMI ENGINEERING COLLEGE	Agritech & Food Technology	MRS. C. AMUTHA	DINESH M, SABARISH KUMAR L M, SNEKAVARSHINI S S, VINUDHA K
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20 2116	RAJALAKSHMI ENGINEERING COLLEGE	Agritech & Food Technology	Mrs. Maharasi M	Mrithula.K.R, Senthilnayaki.N, Snehaprabha.K
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22 2116	RAJALAKSHMI ENGINEERING COLLEGE	Agritech & Food Technology	Ms. M. Manju	Jeyavelan K S, Rissi Kumar P, Shivaraj S, Shivesh P R
23 2116	RAJALAKSHMI ENGINEERING COLLEGE	Agritech & Food Technology	Dr. Tamilselvi P	Abirami R, Adhavan T, Chetan Choudhary
24 2122	Saveetha Engineering college (Autonomous)	Agritech & Food Technology	Dr.Aswini J	Aishree Ramesh, S Sanjay, Vincent Isaac Jeyaraj J
25 3101	ANAND INSTITUTE OF HIGHER TECHNOLOGY	Agritech & Food Technology	A.S.BALAJI	Bandi Revathi, Delcy V, Kalepalli lavanya
26 3101	ANAND INSTITUTE OF HIGHER TECHNOLOGY	Agritech & Food Technology	S.DINAKAR JOSE	ABBURI LAKSHMI NARAYANA, BARATH, DAISAN N, DURAIRAJ M
27 3106	EASWARI ENGINEERING COLLEGE	Agritech & Food Technology	Mrs.D.Kavitha	Burhan Aijaz, Kishore Babu M S, Mohammad Irfan Sheikh
28 3106	EASWARI ENGINEERING COLLEGE	Agritech & Food Technology	Dr.J.Vijayaraj	Mugilesh E, Nitish Kumar P, Sanjay Karthik S
29 3110	KCG College of Technology	Agritech & Food Technology	Dr Thomas Leonid	Somesh kumar, Vigneshwaran, prem kumar
30 3111	LOYOLA ICAM COLLEGE OF ENGINEERING AND TECHNOLOGY	Agritech & Food Technology	Dr. S. Mary Virgil Nithya	Ashik Sharon M, John Mugesh C, Vasanth M
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32 3111	LOYOLA ICAM COLLEGE OF ENGINEERING AND TECHNOLOGY	Agritech & Food Technology	Dr. A. Santhi Mary Antony	Manoj Prasath R S, Satish M S, Suthir T, Theodore B
33 3111	LOYOLA ICAM COLLEGE OF ENGINEERING AND TECHNOLOGY	Agritech & Food Technology	Dr. G. K. Sathish Kumar	Ahamed Rasheef H R, Akash Michael A, Levin Prince M, R Dhinesh
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35 3124	ST.JOSEPH'S INSTITUTE OF TECHNOLOGY	Agritech & Food Technology	Dr. D. Menaga	ROSHAN B T, VIKAAS S R
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37 4117 38 4124	PRINCE SHRI VENKATESHWARA PADMAVATHY ENGINEERING COLLEGE	Agritech & Food Technology	Dr.M.Preetha	Jaya Saradhy.P.S, Lingeshwer.S, RahulKumar.P
39 4124	Sri Sai Ram Institute of Technology Sri Sai Ram Institute of Technology	Agritech & Food Technology Agritech & Food Technology	Parthiban M M Subashini	Harish J, Manobala V, SIVAKUMAR k, Saidhanush k Aiswarya V, Jayadurga M S, Sakthi Priya M, Sandeep R
40 4124	Sri Sai Ram Institute of Technology		Dr.A. Rajasekar	MUTHUKUMAR G, NANDINI S R, SOUMIYA A, VASANTHKUMAR S R
41 4125	Sri Sairam Engineering College	Agritech & Food Technology Agritech & Food Technology	Dr.SURESHKUMAR M	HARINISHA N, JESSICA SHARON W, PRIYADHARSHINI M, PRIYANKA MALAR G P
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43 4207	C.K. COLLEGE OF ENGINEERING & TECHNOLOGY	Agritech & Food Technology	Mrs. G. Mahalakshmi	Dhiviyabala .G, Gayathri .M, Jayasri .A
44 4207	C.K. COLLEGE OF ENGINEERING & TECHNOLOGY	Agritech & Food Technology	Dr. R. Kanimozhi	Dhakshan.D, Dhanushraj. B, Sambath kumar.K
45 4211	IFET COLLEGE OF ENGINEERING	Agritech & Food Technology	Mr.M.O.Ramkumar	BALAJI K, JAYASRI A R, KARAN R
	IFET COLLEGE OF ENGINEERING	Agritech & Food Technology	Mrs.K.Kalaiselvi	Alex.M, Hari.K, Jaya Prakash Narayanan.A
47 4211	IFET COLLEGE OF ENGINEERING	Agritech & Food Technology	Dr.T.Ananth kumar	NIDYA THIRSHALA M, NIVETHA N, OVIYA A, SABIMOZHI M
48 4211	IFET COLLEGE OF ENGINEERING	Agritech & Food Technology	Mrs.G.Leema Roselin	LOKESH E, MOHAMED INAMUL HUSSAIN N, NITHISH G, POORNACHANDRAN G
49 4211	IFET COLLEGE OF ENGINEERING	Agritech & Food Technology	Mr.C.Manimaran	P. MOHAN, S. NAVEEN RAJ, S. SRINEVASAN, S.DHARANIDHARAN
50 4211	IFET COLLEGE OF ENGINEERING	Agritech & Food Technology	Ms.K.Sheela	J.Nandhakumar, K.Mangaiyarkarasi, R.Pooja sree, S.Sivasankari
51 4212	KARPAGA VINAYAGA COLLEGE OF ENGINEERING AND TECHNOLOGY	Agritech & Food Technology	P.Geetha	G.Harini, S.Jayasri, V.Arivazhagan, V.Ravinapriya
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	Mailam engineering college	Agritech & Food Technology	GAJENDIRAN R	A.Deepa, D.Mahalakshmi, S.Aishwarya Lakshmi
	Mailam engineering college	Agritech & Food Technology	Mr.S.Vanakovarayan	Divyashree G, Hemavathi M, Jeeva P
55 4216	Mailam engineering college	Agritech & Food Technology	Dr.MOHANADEVI C	Dhanesh D, Mohamed Ibrahim R, Praveen Kumar M, Youvaraj J
56 4216	Mailam engineering college	Agritech & Food Technology	K.Sundaravinayagam	Nitin Vimal Guru M, Ranjith Kumar M, Sabarivasan K, Tamilselvan E
57 4216	Mailam engineering college	Agritech & Food Technology	Mr.S.Shanmuganathan	ARUN S, BALAMURUGAN A, EZHILARASAN P
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586	6230	Tagore Institute of Engineering and Technology	Smart Manufacturing	HARITHA M	KRISHNA P, RANJITH R, VINOTH R
587	7105	COIMBATORE INSTITUTE OF ENGINEERING AND TECHNOLOGY	Smart Manufacturing	A.Thiyagarajan	Blessy edison, Nirmal T, Rohin raj, Spellbin S
588	7111	Jansons Institute of Technology	Smart Manufacturing	Mrs.Berlin	Logananth K, Pandiyan V, Swetha R, Vangapandu Kushal
589	7113	K P R INSTITUTE OF ENGINEERING AND TECHNOLOGY	Smart Manufacturing	Mr.S.Vinoth	Hariharan K, Ragul S, Shiyamala R, Varshin Narasimman
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591	7115	KALAIGNAR KARUNANIDHI INSTITUTE OF TECHNOLOGY	Smart Manufacturing	VASANTHI R	Ajay Kamalesh G, Muthu Krishnan K, Nagaarjun V, Sanjay N
592	7125	PPG INSTITUTE OF TECHNOLOGY	Smart Manufacturing	Mr.R.Aravindh kumar	Hariharan S, Mohan Prasath J, Nithish Kumar T, Rahul krishnan
593	7135	SNS COLLEGE OF TECHNOLOGY	Smart Manufacturing	Dr.G.Tharanitharan	Boobase A, Dharshan R, Gokulnath V, Hari Prasath T
594	7135	SNS COLLEGE OF TECHNOLOGY	Smart Manufacturing	Mr P.Leon Dharmadurai	Ajoyas Sojan.R, Aswin.B, PRADEEP.N, Sanjay S
595	7179	KUMARAGURU COLLEGE OF TECHNOLOGY	Smart Manufacturing	Sangeetha.S	Nisanth T, Sibi S, Siva Chandru V, Tharika N B
596	7181	SRI RAMAKRISHNA ENGINEERING COLLEGE	Smart Manufacturing	Dr.R.Sudhakar	Puspharaj M
597	7207	HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY	Smart Manufacturing	Dr.T.vandarkuzhali	GOWTHAM R, RUPAN RICHARDS RAJ R
598	7207	HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY	Smart Manufacturing	Mr. T. Prabhu	HARI HARA PRASATH S, MAHESWARAN N, RAKESH SHIBU S A
599	7207	HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY	Smart Manufacturing	Dr.J.Ramya	Boominthan R, G.GOWTHAM, R.Bagavathi
600	7207	HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY	Smart Manufacturing	Ms J.Santhiya Christie	ABISHEK V, ADITHIYAN A, JOHN VS BAPTY, KEERTHANA S
601	7212	KARPAGAM INSTITUTE OF TECHNOLOGY	Smart Manufacturing	N.Sathiyapriya	Pon Saravanan R, Ponn Raja P, Siva P
602	7276	Dr.Mahalingam College of Engineering and Technology	Smart Manufacturing	Mr.A.Shafeek	AJAY KRISHNA T, ARUN PRASATH D, GUNA PRAKASH A
603	7309	EXCEL ENGINEERING COLLEGE	Smart Manufacturing	M. Nandha Kumar	J. Nandheeswaran, S. Moulidhar, Tomraj Thoudam
604	7311	Government College of Engineering Erode	Smart Manufacturing	Dr.M.Mohammadha Hussaini	BRINDHASRI B, DANUJA A, KARISHMAA S
605	7311	Government College of Engineering Erode	Smart Manufacturing	Dr.A.Vetrivel	Kavin V, Sivakumar A, Vignesh D
606	7377	K.S.RANGASAMY COLLEGE OF TECHNOLOGY	Smart Manufacturing	Mr.K.C.Mohanraj	PRASANTH M, RAFITH S, SRIMAN A
607	8120	M.A.M. COLLEGE OF ENGINEERING AND TECHNOLOGY	Smart Manufacturing	Dr. S. Roseline	Gobi b, Muthukumar A, Narayanasamy, Sanjay s
608	8138	SARANATHAN COLLEGE OF ENGINEERING	Smart Manufacturing	Mr.Ramprasath.S	B.Santhosh Kuamr, M.Bharath Kumar, N.Mohamed Mansoor, Y.Michael Santhosh
609	8147	SRM TRP ENGINEERING COLLEGE	Smart Manufacturing	Dr.sudhakaran p	Devendran K, Ezhil Murugan U K, Nithishna S
610	8148	UNIVERSITY COLLEGE OF ENGINEERING, ARIYALUR	Smart Manufacturing	Dr.S.Senthil Kumar	NAVEENA V, SANTHIYA P, SOWMIYA B, SWARNA R
611	8204	ANJALAI AMMAL MAHALINGAM ENGINEERING COLLEGE	Smart Manufacturing	Mr. V.Rajakani	Gowthaman G, Rohit Keerthan R, Saminathan S, Yogesh S U
613	8211	Kings College of Engineering	Smart Manufacturing	Dr. S. Sabanayagam	Jegan.K, Lalith kumar.E, Mahendran.M, Prakash.K
615	9120	PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE	Smart Manufacturing	S.Naga Kannika	ARAVINDHAN M, NAGENDRAN S, RAGUL S, SAKTHIBALAN K
	9120	PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE	Smart Manufacturing	T.Ponvel Murugan	J.Manibharath, M. Nandhakumar, V. Panneer selvam, Veera Abimanyu.P
617	9128	Syed Ammal Engineering College	Smart Manufacturing	DHARMAPRABHAKARAN.T	Harisubramanian.B, Naveenkalish.N, Saranpriyan.N
	9128	Syed Ammal Engineering College	Smart Manufacturing	Dr.S.Karthikeyan	DINESH S, KARTHICK R, SHEIK FARITH S
619	9130	Syed Ammal Engineering College University College of Engineering Ramanathapuram		Mr.R.Manikandan	DINESH S, KARTHICK R, SHEIK FARITH S Prabakaran S, Saiban Ali M, Sathiskumar S
619 620	9130 9131	Syed Ammal Engineering College University College of Engineering Ramanathapuram VELAMMAL COLLEGE OF ENGINEERING AND TECHNOLOGY	Smart Manufacturing Smart Manufacturing Smart Manufacturing	Mr.R.Manikandan B.Karthikeyan	DINESH S, KARTHICK R, SHEIK FARITH S Prabakaran S, Saiban Ali M, Sathiskumar S Abimanyu C, Muthu Pandian C, Ram Prasath V K, Sridharshan K M D
619 620 621	9130 9131 9176	Syed Ammal Engineering College University College of Engineering Ramanathapuram VELAMMAL COLLEGE OF ENGINEERING AND TECHNOLOGY Alagappa Chettiar Government College of Engineering and Technology	Smart Manufacturing Smart Manufacturing Smart Manufacturing Smart Manufacturing	Mr.R.Manikandan B.Karthikeyan Dr. S. Nageswari	DINESH S, KARTHICK R, SHEIK FARITH S Prabakaran S, Saiban Ali M, Sathiskumar S Abimanyu C, Muthu Pandian C, Ram Prasath V K, Sridharshan K M D MADHUMITHA S, RAIHANA S, VISHNUPRIYA S, VISHWESHWARI S
619 620 621 622	9130 9131 9176 9176	Syed Ammal Engineering College University College of Engineering Ramanathapuram VELAMMAL COLLEGE OF ENGINEERING AND TECHNOLOGY Alagappa Chettiar Government College of Engineering and Technology Alagappa Chettiar Government College of Engineering and Technology	Smart Manufacturing Smart Manufacturing Smart Manufacturing Smart Manufacturing Smart Manufacturing	Mr.R.Manikandan B.Karthikeyan Dr. S. Nageswari Dr. K. Baskaran	DINESH S, KARTHICK R, SHEIK FARITH S Prabakaran S, Saiban Ali M, Sathiskumar S Abimanyu C, Muthu Pandian C, Ram Prasath V K, Sridharshan K M D MADHUMITHA S, RAIHANA S, VISHNUPRIYA S, VISHWESHWARI S PRIYADHARSHINI R, SALOMIPRINCY A, SUHAANI P, THYLASHRI P
619 620 621 622 623	9130 9131 9176 9176 9177	Syed Ammal Engineering College University College of Engineering Ramanathapuram VELAMMAL COLLEGE OF ENGINEERING AND TECHNOLOGY Alagappa Chettiar Government College of Engineering and Technology Alagappa Chettiar Government College of Engineering and Technology Thiagarajar College of Engineering, Madurai	Smart Manufacturing	Mr.R.Manikandan B.Karthikeyan Dr. S. Nageswari Dr. K. Baskaran Mr SAR Sheik Masthan	DINESH S, KARTHICK R, SHEIK FARITH S Prabakaran S, Saiban Ali M, Sathiskumar S Abimanyu C, Muthu Pandian C, Ram Prasath V K, Sridharshan K M D MADHUMITHA S, RAIHANA S, VISHNUPRIYA S, VISHWESHWARI S PRIYADHARSHINI R, SALOMIPRINCY A, SUHAANI P, THYLASHRI P Ananth S
619 620 621 622 623 624	9130 9131 9176 9176 9177 9202	Syed Ammal Engineering College University College of Engineering Ramanathapuram VELAMMAL COLLEGE OF ENGINEERING AND TECHNOLOGY Alagappa Chettiar Government College of Engineering and Technology Alagappa Chettiar Government College of Engineering and Technology Thiagarajar College of Engineering, Madurai CHETTINAD COLLEGE OF ENGINEERING AND TECHNOLOGY	Smart Manufacturing	Mr.R.Manikandan B.Karthikeyan Dr. S. Nageswari Dr. K. Baskaran Mr SAR Sheik Masthan P.Nagarani Sobana	DINESH S, KARTHICK R, SHEIK FARITH S Prabakaran S, Saiban Ali M, Sathiskumar S Abimanyu C, Muthu Pandian C, Ram Prasath V K, Sridharshan K M D MADHUMITHA S, RAIHANA S, VISHNUPRIYA S, VISHWESHWARI S PRIYADHARSHINI R, SALOMIPRINCY A, SUHAANI P, THYLASHRI P Ananth S J.Vignesh, K.Harish, P.Loganathan
619 620 621 622 623 624 625	9130 9131 9176 9176 9177 9202 9204	Syed Ammal Engineering College University College of Engineering Ramanathapuram VELAMMAL COLLEGE OF ENGINEERING AND TECHNOLOGY Alagappa Chettiar Government College of Engineering and Technology Alagappa Chettiar Government College of Engineering and Technology Thiagarajar College of Engineering, Madurai CHETTINAD COLLEGE OF ENGINEERING AND TECHNOLOGY Kamaraj College of Engineering and Technology	Smart Manufacturing	Mr.R.Manikandan B.Karthikeyan Dr. S. Nageswari Dr. K. Baskaran Mr. SAR Sheik Masthan P. Nagarani Sobana Dr. R. Muthuselvi	DINESH S, KARTHICK R, SHEIK FARITH S Prabakaran S, Saiban Ali M, Sathiskumar S Abimanyu C, Muthu Pandian C, Ram Prasath V K, Sridharshan K M D MADHUMITHA S, RAIHANA S, VISHNUPRIYA S, VISHWESHWARI S PRIYADHARSHINI R, SALOMIPRINCY A, SUHAANI P, THYLASHRI P Ananth S J.Vignesh, K.Harish, P.Loganathan G.Aravind Narayanan, K.Ashok Kumar, S.Horrish Kumar
619 620 621 622 623 624 625 626	9130 9131 9176 9176 9177 9202 9204 9222	Syed Ammal Engineering College University College of Engineering Ramanathapuram VELAMMAL COLLEGE OF ENGINEERING AND TECHNOLOGY Alagappa Chettiar Government College of Engineering and Technology Alagappa Chettiar Government College of Engineering and Technology Thiagarajar College of Engineering, Madurai CHETTINAD COLLEGE OF ENGINEERING AND TECHNOLOGY Kamaraj College of Engineering and Technology Theni Kammavar Sangam College of Technology	Smart Manufacturing	Mr.R.Manikandan B.Karthikeyan Dr. S. Nageswari Dr. K. Baskaran Mr SAR Sheik Masthan P.Nagarani Sobana Dr. R. Muthuselvi Dr.M.RAJASHANTHI	DINESH S, KARTHICK R, SHEIK FARITH S Prabakaran S, Saiban Ali M, Sathiskumar S Abimanyu C, Muthu Pandian C, Ram Prasath V K, Sridharshan K M D MADHUMITHA S, RAIHANA S, VISHNUPRIYA S, VISHWESHWARI S PRIYADHARSHINI R, SALOMIPRINCY A, SUHAANI P, THYLASHRI P Ananth S J. Vignesh, K.Harish, P.Loganathan G.Aravind Narayanan, K.Ashok Kumar, S.Horrish Kumar M Ragul Prasath, M.K Charu Prakash, R Thirumalai Raj, S Mohamed Faisal
619 620 621 622 623 624 625 626 627	9130 9131 9176 9176 9177 9202 9204 9222 9508	Syed Ammal Engineering College University College of Engineering Ramanathapuram VELAMMAL COLLEGE OF ENGINEERING AND TECHNOLOGY Alagappa Chettiar Government College of Engineering and Technology Alagappa Chettiar Government College of Engineering and Technology Thiagarajar College of Engineering, Madurai CHETTINAD COLLEGE OF ENGINEERING AND TECHNOLOGY Kamaraj College of Engineering and Technology Theni Kammavar Sangam College of Technology Government College of Engineering	Smart Manufacturing	Mr.R.Manikandan B.Karthikeyan Dr. S. Nageswari Dr. K. Baskaran Mr SAR Sheik Masthan P.Nagarani Sobana Dr. R. Muthuselvi Dr.M.RAJASHANTHI Dr.D.Jebakani	DINESH S, KARTHICK R, SHEIK FARITH S Prabakaran S, Saiban Ali M, Sathiskumar S Abimanyu C, Muthu Pandian C, Ram Prasath V K, Sridharshan K M D MADHUMITHA S, RAIHANA S, VISHNUPRIYA S, VISHWESHWARI S PRIYADHARSHINI R, SALOMIPRINCY A, SUHAANI P, THYLASHRI P Ananth S J.Vignesh, K.Harish, P.Loganathan G.Aravind Narayanan, K.Ashok Kumar, S.Horrish Kumar M Ragul Prasath, M.K Charu Prakash, R Thirumalai Raj, S Mohamed Faisal GUNALAKSHMI N S, JOSELIN SOPHIA RANI J, LAKSHMI SRI K, LAKSHMIGANTH K
619 620 621 622 623 624 625 626 627 628	9130 9131 9176 9176 9177 9202 9204 9222 9508	Syed Ammal Engineering College University College of Engineering Ramanathapuram VELAMMAL COLLEGE OF ENGINEERING AND TECHNOLOGY Alagappa Chettiar Government College of Engineering and Technology Alagappa Chettiar Government College of Engineering and Technology Thiagarajar College of Engineering, Madurai CHETTINAD COLLEGE OF ENGINEERING AND TECHNOLOGY Kamaraj College of Engineering and Technology Theni Kammavar Sangam College of Technology Government College of Engineering Government College of Engineering	Smart Manufacturing	Mr.R.Manikandan B.Karthikeyan Dr. S. Nageswari Dr. K. Baskaran Mr SAR Sheik Masthan P.Nagarani Sobana Dr. R. Muthuselvi Dr. M.RAJASHANTHI Dr.D.Jebakani P.E.Irin Dorathy	DINESH S, KARTHICK R, SHEIK FARITH S Prabakaran S, Saiban Ali M, Sathiskumar S Abimanyu C, Muthu Pandian C, Ram Prasath V K, Sridharshan K M D MADHUMITHA S, RAIHANA S, VISHNUPRIYA S, VISHWESHWARI S PRIYADHARSHINI R, SALOMIPRINCY A, SUHAANI P, THYLASHRI P Ananth S J.Vignesh, K.Harish, P.Loganathan G.Aravind Narayanan, K.Ashok Kumar, S.Horrish Kumar M Ragul Prasath, M.K Charu Prakash, R Thirumalai Raj, S Mohamed Faisal GUNALAKSHMI N S, JOSELIN SOPHIA RANI J, LAKSHMI SRI K, LAKSHMIGANTH K ALAGU VELAN G, ARIRAM S, GOWTHAM D, GURU PRAKASH G
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NAAN MUDHALVAN - ANNA UNIVERSITY - NIRAL THIRUVIZHA

TAMILNADU'S SKILLING INNOVATION CHALLENGE [HACKATHON] DESIGNING A JOYSTICK OPERATOR TRICYCLE FOR PERSON AND DISABILITY

Major Area:

Develop personalized motorcycles and tricycles for people with disabilities involves designing inclusive and cost-effective transportation solutions tailored to their specific requirements and preferences (**Smart Manufacturing**).

Problem statement:

Designing a joystick operated tricycle for person with disability.

Total Cost:

Category	Estimated Cost
Tricycle	₹1,500
Electronics (Joystick, Control Unit, Display)	₹1,200
Battery Setup	₹4,250
Wirings	₹600
Mechanical components	₹900
Contingency	₹600
Miscellaneous Expenses	₹800
Total Estimated Budget	₹9,850

College Code & College Name:

College code : 8211

College Name : Kings College of Engineering, Pudukottai.

Guide Name, Designation & Mobile No:

Guide Name : Dr. S. Sabanayagam, M.E., Ph.D.

Designation : Assistant Professor

Mobile No : +91 9443228702

Student Team details:

SI. No	Student Reg. No.	Name of the Student	Branch	Mobile No.	Email Id
1.	821120114023	Jegan.K	МЕСН	9345343409	jegankrishnanj@gmail.com
2.	821120114318	Prakash.K	МЕСН	9025242761	gptprakash2003@ gmail.com
3.	821120114026	Lalith kumar.E		9025771941	gman.com
4.	821120114317	Mahendran.M	MECH	8940706548	mahendranmahe050@gmail.co m

Project Summary:

The objective is to provide an alternative steering solution that accommodates varying levels of mobility impairments, offering increased accessibility and independence for riders. The development of such a mechanism involves considerations related to ergonomics, safety, ease of use, and adaptability to different tricycle models. The incorporation of a joystick control mechanism aims to address the challenges faced by individuals with limited arm or hand mobility, allowing them to steer the tricycle effectively. The development of a joystick control mechanism for steering in disability tricycles represents a significant step towards enhancing mobility and independence for individuals with limited arm or hand mobility.

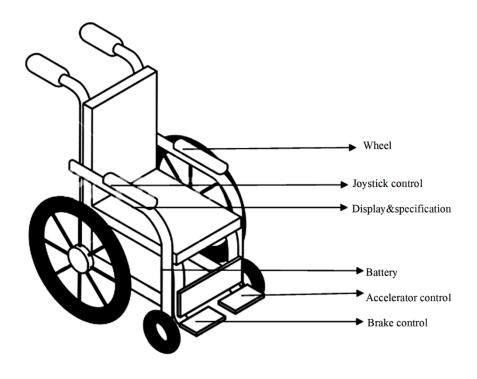
Proposed solution with methodology:

1. Tricycles are a popular mode of adaptive transportation for individuals with disabilities, offering stability and balance compared to traditional bicycles.

- 2. The incorporation of a joystick control mechanism aims to address the challenges faced by individuals with limited arm or hand mobility, allowing them to steer the tricycle effectively.
- 3. The design prioritizes ergonomic considerations, ensuring the joystick is easily accessible and comfortable for individuals with diverse mobility limitations.
- 4. The joystick control system is designed to be adaptable to different tricycle models, allowing for widespread use across various configurations and sizes. The joystick unit consists of a sensitive and responsive control interface, enabling precise steering with minimal effort.
- 5. The joystick control mechanism is seamlessly integrated into the tricycle frame, maintaining a low profile and minimizing visual and physical obstruction.
- 6. Implementing necessary modifications based on user feedback to optimize the joystick control mechanism.

Work plan:

- Needs Assessment
- Vehicle Design
- Development of Model
- Hardware Assembly
- Compatibility Testing
- Energy consumption Testing
- User Interface and Accessibility
- Documentation



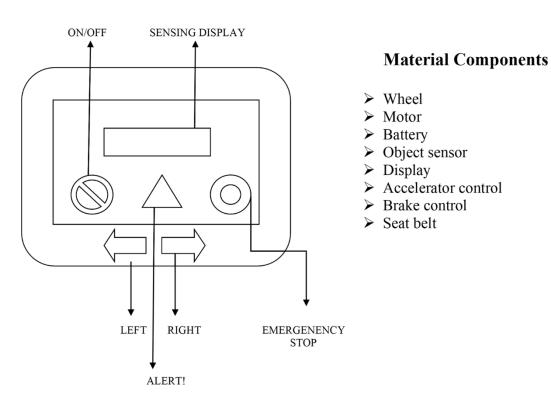


Figure 1 Fabrication Model

Expected outcomes/results

A joystick-operated tricycle for persons with disabilities is designed to provide enhanced mobility and independence for individuals facing challenges in using traditional controls such as pedals or steering wheels. The expected outcomes of such a device include: Increased Mobility, User-Friendly Interface, Improved Quality of Life, Customization Options, Positive Psychological Impact.

In conclusion, a joystick-operated tricycle for persons with disabilities aims to enhance mobility, promote independence, and improve the overall quality of life for individuals facing mobility challenges. Regular feedback and iterative improvements will be essential in ensuring the device meets the diverse needs of its users.

UNDERTAKING

- 1. The college will provide the basic infrastructure and other required facilities to the students for timely completion of their projects.
- 2. The college assumes to undertake the financial and other management responsibilities of the project.
- 3. The college will ensure that the funds provided are utilized only for the purpose provided and any remaining amount will be returned back to the University after the time of completion of the project.

Signature of the Mentor

(8. Sabonayagam)

Signature and seal of the principal

PRINCIPAL
Kings College of Engineering.
PUNALKULAM - 613 303.







TAMILNADU SKILL DEVELOPMENT CORPORATION

Naan Mudhalvan Niral Thiruvizha

Declaration Form

1. Name of the College

: Kings College of Engineering

2. College code

: 8211

3. Theme

: Smart Manufacturing

4. Problem statement

: Designing a joystick operated tricycle for person with

disability.

5. Faculty Guide Details : Dr. S. Sabanayagam,

Associate Professor/Mechanical Engineering, Kings College of Engineering, Pudukottai.

Team Leader Name Reg.No Year Department Mobile N						
1. Prakash. K	821120114318	0114318 IV Mech Mechanical		9025242761		
Team members						
1. Jegan. K 821120114023 IV Mech Mechanical 9345						
2. Lalith kumar. E	821120114026	IV Mech	Mechanical	9025771941		
3. Mahendran. M	821120114317	IV Mech	Mechanical	8940706548		

6. Detailed Work Plan from 12th March-2024 to 30th May-2024

S. No	Project Description	Start Date	End Date
1	Project Proposal	12.03.2024 16.03.202	
2	Project Review I	18.03.2024	
3	Fabrication	19.03.2024	10.04.2024
4	Project Review II	11.04.2024	12.04.2024

5	Project fabrication Analysis	13.04.2024	19.04.2024
6	Project Documentation	20.04.2024	30.04.2024
7	Project Review III	02.05.2024	03.05.2024

7. Details of Financial Assistance required.

Category	Estimated Cost
Tricycle	₹1,500
Electronics (Joystick, Control Unit, Display)	₹1,200
Battery Setup	₹4,250
Wirings	₹600
Mechanical components	₹900
Contingency	₹600
Miscellaneous Expenses	₹800
Total Estimated Budget	₹9,850

UNDERTAKING

- 1. The college will provide the basic infrastructure and other required facilities to the students for timely completion of their projects.
- 2. The college will undertake the financial and other management responsibilities of the project also; college will be responsible in following the time lines.
- 3. The college will ensure that the funds provided are utilized only for the purpose provided and any remaining amount will be returned back to the University after the time of completion of the project.

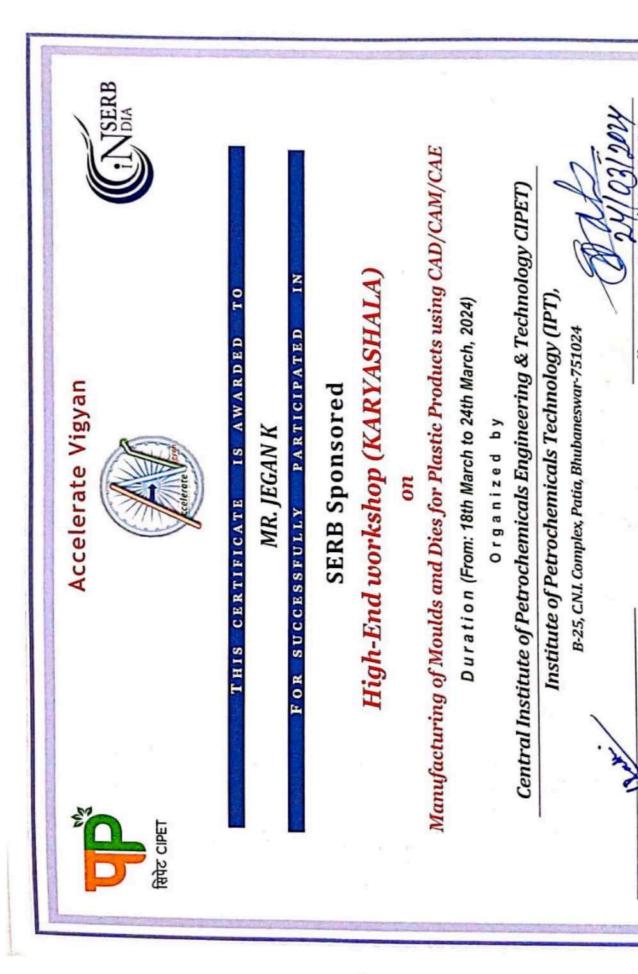
4. I hereby declare that the details furnished above are true and correct.

Signature of Faculty Guide



Signature of Principal

PRINCIPAL
Kings College of Engineering,
PUNALKULAM - 613 303



ORGANIZER

SIGNATURE





1444 Madras Section STB166621

Certificate of Appreciation

This is to certify that

K. Prakash, iy - Mech

has participated in Kings Project Expo'24 organized by Centre for Promotion of Research, Kings College of Engineering on 03.05.2024 and won

Track: Mechanica First / Second Prize

Project Title: Designifing a foysfick operated Tricycle disability WFF

Person

Mr.D.Nandakumar

Dr. J. Arputha Vijaya Selvi J. Baret Dr. PP. Shantharaman

DRC CONVENER

PRINCIPAL

Mr.J.Niranjan Samuel COORDINATORS





144E Madras Section STB166621

Certificate of Appreciation

This is to certify that

E. Lalith Rumar, is - Mech

has participated in Kings Project Expo'24 organized by Centre for Promotion of Research, Kings College of Engineering on 03.05.2024 and won

Track: Mechamical First / Second Prize

Joysfick operated desability Project Title: Designing a Dersor Tricycle

Dr. PP. Shantharaman Dr. J. Arputha Vijaya Selvi

DRC CONVENER

Mr.J.Niranjan Samuel

COORDINATORS

Mr.D.Nandakumar

PRINCIPAL





1413 Madras Section STB166621

Certificate of Appreciation

This is to certify that

M. Mathematra, 12 - Mech

has participated in Kings Project Expo'24 organized by Centre for Promotion of Research, Kings College of Engineering on 03.05.2024 and won

Track: McChambical First / Second Prize

doyatick operated Tricucle Project Title: ปีผลใจเกรีเกร ล

duability

Person

Mr.D.Nandakumar

Mr.J.Niranjan Samuel COORDINATORS

Dr. J. Arputha Vijaya Selvi Dr. PP. Shantharaman

DRC CONVENER

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45







Certificate of Appreciation

This is to certify that

K. JRGARD , IV - MIRCED

has participated in Kings Project Expo'24 organized by Centre for Promotion of Research, Kings College of Engineering on 03.05.2024 and won

Track: Mrc Bal Cal First / Second Prize

Project Title: Draigning a jay strick operated micycle

Mr.J.Niranjan Samuel Mr.D.Nandakumar COORDINATORS

Dr. PP. Shantharaman DRC CONVENER

Dr. J. Arputha Vijaya Selvi PRINCIPAL

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		PRE-REC	EIPT		
Niral Thi	iruvizha ID	NMT75	6		
College Name : 8211 - KINGS COLLEGE OF ENGINEERIS					
Project T	itle	DESIGNING A JO	SYSTICK OPER	ZATED TIZI	CYCLE
FOR PERSON WITH DISABILITY Faculty Guide: Dr. S. SABANAYAGAM					
Name of	the student	s:			
Sl.No.	Reg. No.	Name	Branch	Mobile No.	
	821120114-				
1.	-318	PRAKASH.K	14 MECH	9025242761	
2.	82112014- -023	JEGAN . K	14 MECH	9345343409	

Received a sum of Rs.10,000/- (Rupees Ten thousand Only) sanctioned by TNSDC under Niral Thiruvizha Scheme through Centre for Sponsored Research and Consultancy (CSRC), Anna University towards the financial assistance for the project details indicated above. Certified further the same will be transferred to the above student concerned.

ALITHKUMAR E

MAHENDRAH M

Account Holder Name

: DO. J. ARPUTHA VIJAYA SELVI

IV MECH

14 MECH

Account No.

: 136402000000661

Bank Name & Branch

: INDIAN OVERSEAS BANK, HORTH MAIN STREET,

IFSC

: IOBA0001364

Note: The bank account should be the official account of the college principal, rather than an individual account, enclose copy of cheque leaf for validation.

Name and Sign of the Faculty Advisor

Dr. S. SARAHAYAGAM

Dr.NamamutsianVijaya Selvi, of the Principal with Seaf E., Ph. d

9025771941

8940706548

Kings College of Engineering

Panaikulam- 613 303

Place: PHHALKULAND Date: 03 - 07 - 2024

Bill Passed for the amount of Rs._____/- (Rupees

AU - NM Co-ordinator

UTILISATION CERTIFICATE

Niral Thiruvizha ID: _ N ハ ト フ	Niral	Thiruvizha	ID:	MM	1T	756
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College Name

: 8211-KINGS COLLEGE OF ENGINEERING

Project Title

: DESIGNING A JOYSTICK OPERATED TRICYCLE FOR

Faculty Guide

: Dr. S. SARANAYAGAM

Name of the students:

Sl.No.	Reg. No.	Name	Branch	Mobile No.
1.	821120114	PRAKASH K	IV WECH	9025242761
2.	821120114	JEGAH. K	IN MECH	9345343409
3.		LALITHKUMAR.E	17 MECH	9025771941
A.	821120114	MXHEHDRAH, M	14 MECH	8940706548

Certified that out of Rs.10,000/- (Rupees Ten thousand Only) sanctioned by TNSDC under Niral Thiruvizha Scheme through Centre for Sponsored Research and Consultancy (CSRC), Anna University towards the financial assistance for the project details indicated above, an amount of Rs. 11,020 /- (Rupees ELEYEH THOUSAND AND THENTY only) was utilised for the purpose for which it was sanctioned, leaving a balance of Rs. _____/- (Rupees ___ only).

Certified that I have satisfied myself that the conditions on which the grant-inaid was sanctioned have been duly fulfilled and that I have exercised the necessary checks to see that the money was actually utilized for the purpose for which it was sanctioned.

of the Faculty Advisor

Dr. G. SABAHAYAGAM Auditor / Accounts

Name and Sign of the Finance Officer /

Officer with seal

of the Principal with spat., M. E., Ph.d

PRINCIPAL

Kings College of Engineering Punaikulam- 613 303

Place: PUNHKULAM

Date: 03-07-2024

MANAGER (Accounts) KINGS COLLEGE OF ENGINEERING PUNALKULAM - 613 303, GANDARVAKOTTAL TALUK, PUDUKOTTAL DISTRICT,



BILL SUMMARY

Niral Thiruvizha ID: NMNT 756

College Name

: 8211-KINGS COLLEGE OF EHGIHEERING

Project Title

: DESIGNING A JOYSTICK OPERATED TRICYCLE FOR

PERSON WITH DISABILITY

Faculty Guide

: DT. S. SABAHAYAGAM

Name of the students:

	trie brackerit	0.		
Sl.No.	Reg. No.	Name	Branch	Mobile No.
٧.	821120114	PRAKASH.K	14 NOECH	9025242761
2.	621120114	JEGAH. K	14 HOECH	9345343409
3.		LALITH KUMAR, E	IN MECH	9025771941
4.	-317	HOAHENDRAH . HO	IN MECH	8940706548

Sl.No.	Bill No.	Bill Date	Description	Amount
1.	HCF/0374	13.03.2024	MHEEL CHAIR	1350
2.	KG/12954	13.03.7024	JOYSTICK CONTROLLER	950
3	1EPL/113	13.03.2024	BATTERY, DC MOTOR	A250
_A.	TEDT/113	13.03.2021	WIRING SETUP WITH SHIT	650
5.			SPROCICET (DZ), CHAIN DRI	1150
ь.	LEPL/113	13.03.2024	DIGITAL DISPLAY WITH PIRO	1820
7.	- "	13.03.2024	WISCETTYHE ORS (MHOR	
			PROJECT WORK)	
	TOTAL 11,020			11,020

(Rupees ELEVEN THOUGAND AND THEHTY

Name and Sign

of the Faculty Advisor

Dr. S. SARAHAYAGAN Auditor / Accounts

Name and Sign of the Finance Officer /

Officer with seal

J. 100 m 03/7/2024

Dr. Namerpud Rigivijaya Selvi, of the Principal with seam E., Ph. a

Kings College of Engineering Panalkulam- 613 303

Place: PHHALKYLAMO

Date: 03.07-2024

MANAGER (Accounts) KINGS COLLEGE OF ENGINEERING PUNALKULAM 613 303. GANDARVAKOTTAL TALUK, PUDUKOTTAL DISTRICT,





Approved by AICTF. New Desti: 8 Affiliated to Anna University. Chemical

Dr. J. Arputha Vijaya Selvi, M.E., Ph.D., PRINCIPAL

Ref: KCE / PRL /TNSCST/24-25

24.10.2024

To
The Member Secretary
Tamil Nadu Council for Science and Technology
Directorate of Technical Education Campus,
Chennai – 600 025.

Sir,

Sub: Submission of Utilization Certificate and seminar report – reg., Ref: Lr. No. TNSCST/SPS 2023-2024/3106A/01 dt. 01.10.2024.

With reference to the above, herewith, I am forwarding the utilization certificate and seminar paper of the projects for your kind perusal.

Thank you,

Regards,

PRINCIPAL

Principal

Kings Callege of Engineering

(Autonomous) Punalkulam - 613 303

54

TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY DOTE Campus, Chennai - 600 025

STUDENT PROJECT SCHEME 2023-2024 UTILIZATION CERTIFICATE

1. Name of the guide and address

R. Rajadurai,

Assistant Professor,

Department of Mechanical Engineering,

Kings College of Engineering,

Punalkulam,

Pudukkottai-613 303

2. Name of the student(s)

S. SHANMUGABHARATHI,

A. SARAVANAN,

M. HARISH RAGAVENDRA,

M. KABILAN.

3. Title of the project

DESIGN AND FABRICATION OF AUTOMATIC

FERTILIZER SPRAYER WITH WEEDER USING

PROXMITY SENSOR

4. Project code

EME-1328

It is certified that a sum of Rs 5500/- (Rupees Five Thousands Five Hundred) 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 NIL remaining unutilized is refunded.

Ruydonuu 52410124 Signature of the Guide

Signature of the HOD

Signature of the Principal

Signature of the Principal with SEAL Principal

nings College of Engineering (Autonomous) Punalkulam - 613 303



PROJECT PROPOSAL



DESIGN AND FABRICATION OF AUTOMATIC FERTILIZER SPRAYER WITH WEEDER USING PROXMITY SENSOR

Submitted to

TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

DOTE Campus,

Chennai-600025.

Submitted by

S.SHANMUGABHARATHI

(821120114044)

A.SARAVANAN

(821120114042)

M. HARISH RAGAVENDRA

(821120114306)

M.KABILAN

(821120114310)

FOURTH YEAR B.E MECHANICAL ENGINEERING
KINGS COLLEGE OF ENGINEERING,
PUNALKULAM, PUDUKKOTTAI - 613 303.

Guided by

Mr.R. RAJADURAI, AP/MECH
Department of Mechanical Engineering
KINGS COLLEGE OF ENGINEERING,
PUNALKULAM, PUDUKKOTTAI - 613 303.

PROJECT PROPOSAL

1. Name of the student

: S.SHANMUGABHARATHI

A.SARAVANAN

M.HARISH RAGAVENDRA

M.KABILAN

2. One valid e-mail id

: harishragavendra15022003@gmail.com

3. Name of the guide

: Mr. R.Rajadurai

4. Department/designation: MECH/ Assistant Professor

5. Institutional address

: KINGS COLLEGE OF ENGINEERING, Punalkulam,

Gandarvakottai-Taluk, Pudukkottai-613303.

6. Phone no & Mobile

:9585968066.

7. Project title

DESIGN AND FABRICATION OF AUTOMATIC FERTILIZER SPRAYER WITH WEEDER USING PROXMITY SENSOR

8. Sector in which your project

Proposal is to be considered. : Engineering & Technology

9. Category of the Students

: UG/ (Engineering)

10. Discipline in science

: MECH

Abstract

The ultimate aim of this project is to help the farmers. During pesticides spraying to agriculture field, the chemicals used in pesticides can easily penetrate through their skin and can affect them. The weight of the spraying machine is too high and which always brings shoulder pain to farmers. To avoid these problems, this project can be used. This project involves the usage of structure which can be automatically moved over particular area. The length of the nozzle used for spraying and the force of the pesticide through the nozzle can also be adjusted according to the user demand which makes this automatic agro sprayer much more efficient one.

Introduction

India is an agricultural country. About seventy percent of our population depends on agriculture. One-third of our National income comes from agriculture. Our economy is based on agriculture. The development of agriculture has much to do with the economic welfare of our country. Though we are developing country, we are not using technologies to improve our agriculture. So we have to fabricate some machines which can be helpful to farmers so as to increase their profit, production and to save their time. Pesticide spraying is one of the difficult which farmer usually faces. The present scenario is being that the farmers have to carry the pesticides in their shoulders and the sprayers are manually operated.

Objective

The main goal of this project is

- Decrease the operational cost by using new mechanism
- To develop and implement an more efficient method for spraying

Design Methodology

In our country farming is done by traditional way, besides that there is large development of industrial and service sector as compared to that of agriculture. The spraying is traditionally done by labor carrying backpack type sprayer which requires more human effort. The weeding is generally done with the help of Bulls which becomes costly for farmers having small farming land. So to overcome these above two problems, we tried to eliminate these problems and designed the equipment which will be beneficial to the farmer for the spraying and weeding operations.

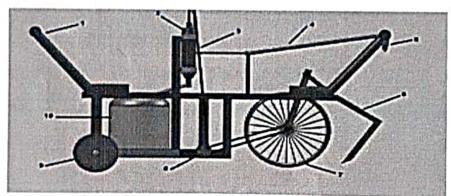


Figure 7: Front view of CAD model

- 1- Handle for controlling.
- 2- Reciprocating pump.
- 3-Connecting link (bar).
- 4- Flexible pipes.
- 5- Nozzles.

- 6 Weed cutter plate.
- 7 Wheel.
- 8 Crank.
- 9 Supporting wheels.
- 10 Storage tank,

Working

- When the equipment is push forward by using handles, front wheel rotates and the gear is
 mounted at the axle of wheel is start to rotate and its rotation is then transferred to the
 pinion through the chain drive.
- The rotary motion of the pinion is converted into the reciprocating motion by the single slider crank mechanism, due to this arrangement the connecting rod moves upward and downward which then reciprocate the piston of single acting reciprocating pump mounted at the top of storage tank.
- During the upward motion of the connecting rod the pesticide is drawn into the pump and during the downward motion of connecting rod the pesticide is forced to the delivery valve, the delivery is connected to the pipe carrying the number of nozzles.

Expected Outcome:

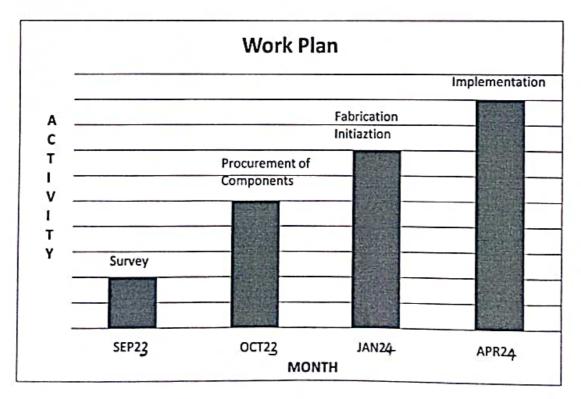
The equipment is purposely design for the farmers having small farming land say 5-6 acre. It is suitable for spraying as well as weeding at minimum cost for the farmer so that he can afford it. The equipment will results more beneficial when it is subjected to moist soil for weeding purpose, due to moist soil the weed cutter can easily penetrate and dig out the soil and hence will easily accomplished the weeding process.

The performance of the equipment will increase when it is operates on the smooth surface or less uneven surface and also it will be more effective when it is used on the crops having nearly similar height and having the less space between two crops.

BUDGET

SI. No	Particulars	Quantity	Price (INR)
1.	Wheel 50cm dia	2	1000
2.	Reciprocating Pump stroke per rotation of wheel with 3lit/min discharge	1	1200
3.	Weed cutter plate	1	1000
4.	Nozzles	-	500
5	Storage tank		250
6	Miscellaneous Expanses		2000
		Total (Rs)	5950
Rupees Five Thousand and Nine Fifty only			

WORK PLAN:



CERTIFICATE:

13 ...

This is to certify that S.SHANMUGABHARATHI, A.SARAVANAN, M.HARISH RAGAVENDRA & M.KABILAN are a bonafide final year students of U.G.Mechanical Engineering of our college and it is also certified that two copies of utilization certificate and final report along with seminar paper will be sent to the Council after completion of the project by the end of April 2024.

Orundonul Signature of Guide³ Signature of HoD TISICALES

EPARTMENT OF MECHANICAL ENGINEERING KINGS COLLEGE OF ENGINEERING PHNALKULAM J. 13/10/2023

Signature of Register/Principal/Dean

WIRE THE IPAL
Kings College of Engineering
PUNALKULAM - 613-803.



Fwd: IEEE - Proposal - Financial Support - Workshop - reg.,

Principal <pri>principal@kingsengg.edu.in>

Tue, Oct 31, 2023 at 10:50 AM

To: Niranjan J <niranjansamuel@kingsengg.edu.in>, Abikayil Aarthi <aarthi.cse@kingsengg.edu.in>, Abhirami K <abhirami.cse@kingsengg.edu.in>

Sent from my iPhone

Begin forwarded message:

From: Principal KINGS CE <principal@kingsengg.edu.in>

Date: 31 October 2023 at 6:11:28 AM IST

To: IEEE Madras Section IEEE Madras Section <ieeemas@gmail.com>Subject: Re: IEEE - Proposal - Financial Support - Workshop - reg.,

Dear Madam, Thank you for the financial support.

On Mon, 30 Oct 2023 at 4:32 PM, IEEE Madras Section IEEE Madras Section <ieeemas@gmail.com>wrote:

Dear Student Branch Counselor,

Based on the active IEEE SB(Kings College of Engineering) members in your college, IEEE MAS can financially support up to Rs. 5,000/- (Rupees Five Thousand only) for the calendar year 2023 for the proposed event.

Event Date: 18-20 Oct 2023

Event Name: Data Science & Machine Learning

This amount Rs. 5,000/- is therefore approved for your proposal.

The amount can be claimed as Reimbursement upon submission of following documents:

- 1. Event reporting as per guidelines for IEEE MASLINK Newsletter
- 2. Original Utilization certificate signed both by IEEE SB Counselor and Principal
- 3. Photo copies of bills and vouchers can be sent for processing payments.
- 4. Proper acknowledgement upon receipt of payment.

Regards,

Dr. S. Radha

Treasurer, IEEE Madras Section.

On Mon, Sep 25, 2023 at 8:02 PM Principal KINGS CE <pri>principal@kingsengg.edu.in> wrote:

We have submitted a proposal seeking partial financial support for organizing a workshop on machine learning and data science during 18 - 20 of October, 2023. As the event date is approaching, kindly let us know the status of the proposal submitted.

Thank you,

Regards,

Dr. J. Arputha Vijaya Selvi



Kings Project Expo-2024 report

Niranjan Samuel J <niranjansamuel@kingsengg.edu.in> To: arunmemba@ieee.org

Wed, Jul 3, 2024 at 12:14 PM

Dear Sir,

As per the intimation received from your end, we have organized IEEE Madras Young Professionals sponsored the **Kings Project Expo-2024**, organized by the Centre for Promotion of Research at Kings College of Engineering on 03.05.2024 as part of winning the ElevateYP contest by IEEE Madras Young Professionals.

And herewith, I am forwarding the report of the Project Expo for your kind perusal and for approving the sponsorship from IEEE MAS YP.

Thank you,

Regards,

J. Niranjan Samuel





Kings Project Expo-2024 report

ARUN MATHIYALAGAN <arunmemba@ieee.org>
To: Niranjan Samuel J <niranjansamuel@kingsengg.edu.in>

Thu, Jul 4, 2024 at 4:36 AM

nice sir, submit along with budget and copy of bills. [Quoted text hidden]

--

M.ARUN, M.E., M.B.A.,

Chairman, IEEE Madras Section Young Professionals,

Excom Member IEEE Madras Section & Chair, Editorial Team IEEE Madras Section Newsletter,

Vice Chairman, IEEE TEMS Madras Chapter, Treasurer, IEEE COMSOC Madras Chapter,

Excom Member IETE Chennai Centre & Chair, Editorial Team IETE Chennai Centre Newsletter,

Assistant Professor, ECE, Panimalar Engineering College, Chennai.

+917200096048



Kings Project Expo-2024 report

Niranjan Samuel J <niranjansamuel@kingsengg.edu.in> To: ARUN MATHIYALAGAN <arunmemba@ieee.org>

Thu, Aug 1, 2024 at 4:09 PM

Dear Sir,

Herewith, I am forwarding the income-expenditure statement and copy of the bills for your kind perusal.

Thank you,

Regards,

Niranjan Samuel

On Thu, Jul 4, 2024 at 4:36 AM ARUN MATHIYALAGAN <arunmemba@ieee.org> wrote: [Quoted text hidden]

5 attachments







Shield -1.jpeg 62K



KINGS PROJECT EXPO'2024

Organized by

Center for Promotion of Research

Center for Promotion of Research in association with IEEE STB 16621 organized KINGS PROJECT EXPO' 2024 on 03.05.2024. This project expo aims to encourage the students' creativity and innovations on Engineering & Technology. Dr.S.Sabanayagam, CPR Member & Associate Professor / Mechanical Engineering, welcomed the gathering. Dr.J.Arputha Vijaya Selvi, Principal, inaugurated the expo and delivered the inaugural address. In her speech, she emphasized the significance of innovations in projects. Mr.J.Niranjan Samuel, JRF/R&D, introduced the chief guest Mr. M. I. Abdul Halik, Secretary of IEEE Madras Young Professionals, Chennai. Mr. M. I. Abdul Halik delivered special address on importance of IEEE membership and his IEEE membership journey. Also he shared his memories as Passion to Progress: My IEEE Member Experience. Dr. S. Sivakumar, Vice Principal, delivered the felicitation address. He insisted the students to enhance their technical knowledge both in software and hardware. The projects of internal and external students were evaluated by senior faculty members of every department nominated as jury's. Totally 70 batches participated in the project expo. Jury's evaluated the projects and gave feedback & valuable comments to the students. Based on the innovation, presentation, implementation and demonstration marks were awarded by the jury's. Two projects were selected for rewards from each department. The valedictory ceremony of the project expo started by 01:30 p.m. at Pallava Hall. Dr.R.Rajendran, Secretary of the college distributed the prizes and certificates to the participants. Project Expo came to an end with vote of thanks by Ms. S. Abikayil Aarthi, AP/CSE cum Event Coordinator – IEEE MAS YP and Secretary – IEEE STB 16621.

Participant Details:

S.No.	Department	Internal Batches	External Batches	Total
1.	CIVIL	04	-	04
2.	CSE	20	-	20
3.	ECE	03	-	03
4.	EEE	11	02	13
5.	MECH	19	-	19
6.	S&H	01	-	01
Total		58	02	60

Details of Prize winners:

S.No	Department	Name of the	Title of the project
		Participants/College	
1.	Civil Engineering	<u>First Prize</u>	Experimental Investigation on
		P.Kathireswari	Partial Replacement of cement by
		J.Kiruthika sri	seashell powder in concrete.
		J.Nikesha	
		Kings College of Engineering	
		Second Prize	Experimental analysis of recycled
		G.Bharath	construction and demolition
		U.Hariharan	waste as partial replacement of
		M.Joshuva	coarse aggregates in concrete.
		N.Krishnakanth	
		Kings College of Engineering	
2.	Computer Science &	<u>First Prize</u>	Spoton: A Hassle Free Car Parking
	Engineering	S.Mohammed Sameer	System for smart cities using block
		S.Dinesh	chain technology
		S.Sarvesh	
		D.Guhan	
		Kings College of Engineering	
		Second Prize	Deep Learning with optimal
		K.kayalvizhi	Hierarchical spiking Neural
		S.Keeethiga	Network for Medical image
		V.Mahalakshmi	classification
		Kings College of Engineering	
3.	Electronics	<u>First Prize</u>	Design And Implementation Of
	Communication	Natika K S	Robotic Spray Machine Using
	Engineering	Nivya P	Artificial Intelligence
		Priyadharshini J	
		Vennila D	
		Kings College of Engineering	
		Second Prize	Design And Implementation Of Iot
		Devadharshini B	Based Non-Invasive Blood
		Dhivya dharshini M	Pressure Monitoring
		Preethi S	
		Swathi shuki M	
		Kings College of Engineering	
	<u> </u>		

4.	Electrical&	First Prize	Self generated E-Train modelling
4.	Electronics	Akash.A	for future technology.
	Engineering	Harikumar.K	Tor ratare technology.
	Linginicering	Mesia Godwin.F	
		Varsha.R	
		Kings College of Engineering	
		Second Prize	Power generation.
		Dhiyakar.S	Tower generation.
		Morishkumar.S	
		Guruprasath.N	
		Ponnagaraan.M.G	
		•	
5.	Mechanical	Kings College of Engineering	Designing a joystick operated
5.		<u>First Prize</u> Prakash K	tricycle for person with disability.
	Engineering	Jegan K	d icycle for person with disability.
		Lalithkumar E	
		Mahendran M	
		Kings College of Engineering	
		Second Prize	Fabrication of development of a
		Eraniyan K	Remote Controlled scrap
		Arunkumar M	collecting vehicle for industrial
		Manoj kumar R	applications.
		Hariharan K	
		Kings College of Engineering	
6.	S&H	First Prize	Geothermal power plant
		Swetha S	• •
		Ashviniya A	
		Praveen V	
		Vinodhini A	



Invitation



Chief guest invitation



Welcome Address by Dr.S.Sabanayagam



Honouring the Chief Guest



Inaugural Address by Dr.J.Arputha Vijaya Selvi, Principal,KCE



Chief Guest Address



Participants demonstrated their projects in front of the jury's





Participants demonstrated their projects



Valedictory Session of Project Expo'24



Certificate Distribution by Dr.R.Rajendran, Secretary, KCE

Outcomes of the Project Expo'24

Experts evaluated the student's projects and gave their valuable remarks and feedback on the topic of the project and interacted with students about how to improve the quality of the work and project at large scale.

Students were able to

- > Efficiently present their ideas.
- > Design the project with all technical aspects.

Project Expo Coordinators

TIPE CONVOYOR

Principal