

(Approved by AICTE & Affiliated to Anna University, Chennai)

City Office: 10, Pandian Saraswathi St, Sivagami Nagar, Narayanapuram, Madurai - 625 014. Telefax- 0452 2682338, Mobile: 98423-02628

# 3.1 grants received from Government and non-government agencies for research projects/endowments in the institution during the academic year 2022-2023 (INR in Lakhs) are listed below

S.No	Name of the research project/ endowment	Name of the Principal Investigator/Co- investigator	Name of the Funding Agency	Amount Sanctioned
1.	Design of smart Agriculture Monitoring System Based on IOT using LoRaWAN Technology	Dr.S.Regina	TNSCST	7,500
2.	Charging station for E vehicle using IoT	Mr.D.Duraimurugan	TNSCST	7,500
3.	Cow dung pot making machine	Mr.R.Pandithirai	TNSCST	7,500
4.	Plastic Pavers and bricks using Waste Plastics	Mr.N.Naga Arjuna	EDII	1,12,000
5.	Design and development of Panel Key Controller	Dr.S.Manikandan	Embien Technologies	2,06,000
6.	Designing Charges for Electronic Components of video Conferencing Camera	Dr.S.Manikandan	A&T Video Networking	5,00,000
	Total amount received	8,40,500 (Eight lakhs Forty Thousand & Five Hundred only)		

### 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.

Ph : 044-22301428, www.fanscst.nic.in

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

Lr.No.TNSCST/SPS/BS/2022-2023

03.03.2023

To The Principal Pandian Saraswathi Yadav Engineering College, Thirumansolai Post-630 561

Sir/Madam,

Sub: TNS

TNSCST - Student Project Scheme - 2022-2023 - approval intimation-grant

release- reg.

With respect to the above scheme, the list of projects approved by the State Council is enclosed along with terms and conditions. You are requested to adhere to terms and conditions such as submission of UC and Seminar Paper on Time.

1.	Mr.R.Pandithurai Assistant Professor, Department of Mechanical Engineering, Pandian Saraswathi Yadav Engineering College, Thirumansolal Post-630 561	Cow dung pot making machine	R. Balaji, K. Ari krishnan,	EME-0566	The Principal	Rs 7500/
2.	Mr. Duraimuruoan D. Assistant Professor, Department of EEE. Pandian Saraswathi Yadav Engineering College, Thirumansolal Post-630 561	Charging station for E- vehicle using IoT	Pantheeswaran, M, Dinesh,K, Vallarasu, M,	EEE-1320	The Principal	Rs 7500/-
3.	Mrs. S. Regina. Assistant Professor. Department of Electronics and Communication Engineering. Pandian Saraswathi Yadav Engineering College. Arasanoor Thirumansolai Post-530 561	Design of Smart Agriculture Monitoring System Based on IoT using LoRaWAN Technology	S.Dharani, M.Priyadharshini, S.Varsha,	AS-521	The Principal	Rs 7500/-
Total					Total	Rs 22500/-

Herewith enclosed the cheque for the approved grant and disburse the grant to the concerned students through the guides at the earliest

Kindly send the utilisation certificate (format enclosed) and seminar paper (Ref.T&C) on completion of the project.

Thanking you,

Yours faithfully,

Member Secretary.

Encl: a) Terms & Conditions (T&C)

b) Format of Utilisation Certificate (UC)

c) Cheque for Rs.22500/- Cheque No:574937 dt.03.03.2023

Copy to: Individual Guides

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

# STUDENT PROJECT SCHEME 2022-2023 UTILIZATION CERTIFICATE TWO COPIES

1. Name of the guide and address

: Ms.S.Regina

Assistant Professor,

Pandian Saraswathi Yadav Engineering College,

Arasanoor-630561.

2. Name of the student(s)

: 1.S.Dharani

2.M.Priyadharshini

3.S. Varsha

3. Title of the project

:Design Of Smart Agriculture Monitoring System

Based On lot Using Lorawan Technology

4. Project Code

: AS-521

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

Signature of The Guide Signature of HOD

Signature of the

REGISTRAR/PRINCIPAL/DEAN

with seal

Dr. R. RAJA M.E. Ph.D.. PRINCIPAL

PANDIAN SARASWATHI YADAV

ENGINEEFINE COLUMNS (ASSESSED OF THE PO-630 Sh)

Stragarrayi Dest, Tomic Nede

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

### STUDENT PROJECT SCHEME 2022-2023 UTILIZATION CERTIFICATE

TWO COPIES

1.	Name of the guide and Address	:Mr.Duraimurugan D
		Assistant Professor
		Department of EEE
		Pandian Saraswathi Yadav Engineering
		College
2.	Name of the Student(S)	1. Pantheeswaran.M
		2. Dinesh.K
		3. Vallarasu.M
3.	Title of the Project	:CHARGING STATION FOR E VEHICLE
		USING IoT
4.	Project Code	:EEE - 1320

It is certifies that a sum of Rs.7500/-(Rupees Seven thousand Five Hundred) sanctioned by the council for carrying out the above student project has been utilized for the purpose for which it was sanctioned and sum of Rs.Zero remaining Unutilized is refunded.

Signature of The Guide

Signature of HOD

Signature of the RESISTRAR/PRINCIPAL/DEAN with seal Dr. R. RAJA M.E., Ph.D., PRINCIPAL

PANDIAN SARASWATHI YADAV ENGINEER!NG COLLEGE 'Arasanoor, Thirumansolai P.O-630 56 . Sivagangai Dist, Tamil Nadu



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

#### STUDENT PROJECT SCHEME 2022-2023 UTILISATION CERTIFICATE

#### (TWO COPIES)

1. Name of the guide and address

P. PANDI THURAI, APTMECH.
Doputment of Machanical Engineering,
Pandian Savaswathi Yadan Engineering College,

Madurai - Sivapangai Highway,

Sivagangai - 630 561.

2. Name of the student(s)

R.BALAJI,

KARI KRISHIYAN.

3. Title of the project

COM DUNG POT MAKING MACHINE .

4. Project code

: EME - 0566

Signature of the Guide

Signature of the HOD

REGISTRAR / PRINCIPAL / DEAN with seal Dr. R. RAJA M.E., Ph.D.,

Signature of the

PRINCIPAL
PANDIAN SARASWATHLYADAV
ENGINEEPING OOLLEGE
Arasanoor, Thiruman 1 tai P 0-630 563

Siyagangai Dist, Tamii Nadu



### ENTREPRENEURSHIP DEVELOPMENT AND INNOVATION INSTITUTE

(An autonomous society of the Government of Tamil Nadu) Parthasarathy Koil Street, SIDCO Industrial Estate, Ekkaduthangal, Guindy, Chennai 600032, Tamil Nadu Tel: +91-44-2225-2081/82/83/84 Web: www.editn.in



Date: 05.07.2022

### Roc.No.II-01/44/2022/EDII/2022

Sir,

Sub:

EDII - Innovation Voucher Programme (IVP) - Proposal submitted

under IVP - Sanctioned Order Issued - Reg.

Ref:

1. IVP Proposal sent by M/S Plasto Pavers.

2. Minutes of the Screening Committee meeting held on

28.06.2022.

As per the above references, this is to inform that your proposal has been approved by the Screening Committee under "Innovation Voucher Programme".

In this regard, the details of the recommendations and terms and conditions are as follows:

1. Name of the Company

: Plasto Pavers

2. Project Title

: Plastic pavers and bricks using waste

plastics

3. Voucher Type

: Voucher - A

4. Maximum

Project: 12 Months

Duration

Knowledge Partner

: Pandian Saraswathi Yadav Engineering

College

6. Total Project Cost

: Rs.1,40,000/-

	Break up of	Project Cost (In F	Rs.) :		
1 <sup>st</sup> Installment 50% 2 <sup>nd</sup> Installment 40%		3 <sup>rd</sup> Installment 10%	Company's Contribution	Total	
56,000	35,000	21,000	28,000	1,40,000	

### Terms and Conditions of the grant:

- 1st Installment: 50 percent of the eligible grant will be released on signing of the 1.
- 2<sup>nd</sup> Installment: 40 percent will be released on submission of the Progress report, 11. Utilization Certificate, Photos & Videos, etc. and its acceptance by the EDII within the time frame stipulated in the agreement
- 3rd Installment: (Remaining 10 percent) will be released on completion of the III. project and presentation of the final report being made before the Screening committee and the completion report found acceptable.
- Contribution of the company has to be paid in full to the knowledge partner before IV.

- Knowledge partner should release the fund to the company without any delay based on the achievement of milestones as envisaged in the project by the
- The company should periodically furnish progress report and utilization certificate to EDII for releasing of 2<sup>nd</sup> and 3<sup>rd</sup> installment. VII.
- The company with attestation of the Knowledge Partner must submit monthly progress reports of the project to EDII regularly. VIII.
- Any deviation of the project has to be reported promptly to EDII.
- IX. The sanction project should be completed within the time stipulated in the For factors beyond the control of the Company given the assignment, suitable extension in time may, however, be granted at the request
- X. The EDII shall not pay any extra amount for any escalation in the cost of the assignment beyond the time period stipulated in the agreement. XI.
- The total grant for the study as agreed with the organization will include service tax and other tax, if any, and the liability of payment of the tax will be of the Institution conducting the study.
- TWO hard copies of the final report, FIVE hard copies of the executive summary XII. and soft copy containing the final report shall be submitted before releasing the final installment of payment. XIII.
- During the period of the implementation of the project, EDII may modify the TOR and other terms and conditions of the project, if necessary, in order to strengthen/deepen its scope/coverage. As far as possible, such modifications will not be made more than once during the period of study and with the due concurrence of the Company concerned. XIV.
- In case of change of contact person during the period of study, the new contact person may be nominated by the Company with the prior approval of the EDII. XV.
- Any changes in the proposed work plan should be intimated to EDII and get prior approval from the Screening Committee
- If the performance of the Company during the period of the study is not found to XVI. be satisfactory, the agreement will be terminated. XVII.
- The Knowledge partner should have empanelled with EDII.

# You are requested to furnish us the following documents immediately:

- Tripartite Agreement (Model Enclosed)
- Advance Stamp receipt from the Knowledge Partner Institution for the 1st
- Bank Account details of the Knowledge Partner Institution to which the amount is to be released in Letterhead with signature of Knowledge
- Detailed milestones with signature of company and Knowledge Partner.
- Detailed Budget split-up with signature of company and Knowledge Partner.
- Consent letter from Knowledge Partner and service cost charged by the Knowledge Partner for various services
- UAM Registration/Startup India DPIIT Registration Certificate

Additional Director (FAC)

To.

- 1. M/s. Plasto Pavers
- 2. Pandian Saraswathi Yadav Engineering College



(Approved by AICTE & Affiliated to Anna University, Chennai)

Madurai - Sivagangai Highway, Arasanoor, Thirumansolai Post, Sivagangai Dt. - 630 561, Tamilnadu Mobile : 9842102628, 7373002628 Email: info@psyec.edu.in Website : www.psyec.edu.in

City Office: 10, Pandian Saraswathi St, Sivagami Nagar, Narayanapuram, Madural - 625 014. Telefax- 0452 2682338, Mobile: 98423-02628

Date:07.09.2022

Τo

EMBIEN TECHNOLOGIES (INDIA) PRIVAZE LIMITED,

2ND FLOOR, 13/10 Alagar Kovil Main Road,

Surveyor Colony,

Madurai - 625 007.

Dear Sir,

Sub: Request for approval and support for funded Project-reg

We, the Electronics and Communication Department at Pandian Saraswathi Yadav Engineering College, have been functioning effectively since 2000. We are excited to collaborate with your organization on a funded project titled "Design and Development of Panel Key Controller." This project will be led by our faculty investigator, Dr. S. Manikandan, Associate Professor in the ECE Department. We believe this innovative project will have significant social relevance. We kindly request your approval for this collaboration.

Thanking you,

Arasanor Thirumantofal P. 60 00581 Sivagangal Dist

PRINCIPAL
Dr. R. RAJA M.E., Ph.D.,
PRINCIPAL
PANDIAN SARASWATHI YADAV
ENGINEERING COLLEGE
-rasanoor, Thirumansolai P.O-630 Sr.,
Sivagangai Dist, Tamil Nado



#### TO

Dr.S. Manikandan,
Associate Professor,
Department of Electronics and Communication,
Pandian Saraswathi Yadav Engineering College,
Arasanoor-630561.

Dear Sir/Madam,

#### Subject: Letter of Acceptance & Providing Support for Funded Project-Reg

I am happy to inform that the proposal submitted by the Department of Electronics and Communication Engineering under the work titled "Design and development of Panel Key Controller" has selected and approved by our organization and sanctioned Rs. 2,06,000 (Two Lakh and six Thousand only) as the project seems to be innovative and would be highly social relevance.

In this regard, The Principal Investigator is registered to complete the work and submit the monthly report of the completion status along with the presentation file to the company address without fail.

Thanking you

For Embien Technologies India Pvt. Ltd.,
This is electronically generated and does not require any signature



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City Office: 10, Pandian Saraswathi St, Sivagami Nagar, Narayanapuram, Madurai - 625 014. Telefax- 0452 2682338, Mobile: 98423-02628

### **DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

#### PROJECT PROPOSAL FOR POSSIBLE FUND

S.No	Items	Details	
1.	Project Title	Design and development of Panel Key Controller	
2.	Project Type	It involves designing the physical components of the panel key controller.  It focuses on designing the user interface of the panel key controller.  It involves Prototyping and Testing its functionality and performance and documenting the design specifications.  Providing support for the transition from prototype to mass production.	
3.	Objectives	The objective is to design a controller that accurately controls targeted functions, provides an intuitive user interface, ensures reliability and durability, and integrates seamlessly with other systems.  To design and develop Panel Key Controller aims to deliver a reliable, user-friendly, and cost-effective solution for controlling specific functions or systems various applications.	
4.	Summary	From this proposal, the scope of the project encompasse various industries and applications where the Panel Key Controller can be utilized. Key features include robust hardware design, embedded systems development, user interface optimization, prototyping, testing, and compliance with safety standards.	
5.	Methodology	To design the hardware components of the Panel Key Controller, that includes selecting appropriate components such as microcontrollers, switches, LEDs, and designing the circuitry layout and schematics.	
6.	TotalCostRequired	Rs. 2,06,000/-	



#### **PURCHASE ORDER**

Vendor:

Pandian Saraswathi Yadav College of Engineering Arasanoor, Thirumansolai Post, Sivagangai District - 630 561. **Purchase Order:** 

PO No: ET/PO/23/01/001 Date: 07-10-2022

Reference: Email Quote dt 04-10-2022

Shipping & Billing Address:

EMBIEN TECHNOLOGIES (INDIA) PRIVATE LIMITED 2nd Floor, 13/10 Alagar Kovil Main Road, Surveyor Colony,

Madurai - 625 007, Tel: +91 452 4961900

GST number: 33AACCE4288K1ZG

Please acknowledge this Purchase Order and supply the below mentioned items. Your supplies are subject to the conditions mentioned below.

S.No	MFG NAME	Part Description	Qty	U/P	Total	
1	PSYCE	Design and development of Panel Key Controller		206000	206000	
				Total	206000	
			Gra	nd total	206000	
Amount in words: Two Lakh Six Thousand Rupees Only						

#### For Embien Technologies India Pvt. Ltd.,

This PO is electronically generated and does not require any signature

#### **Terms and Conditions of Purchase:**

- $1.\,\mathsf{All}\,\mathsf{items}\,\mathsf{of}\,\mathsf{the}\,\mathsf{PO}\,\mathsf{should}\,\mathsf{be}\,\mathsf{delivered}\,\mathsf{simultaneously}.\,\mathsf{Part}\,\mathsf{Delivery}\,\mathsf{will}\,\mathsf{not}\,\mathsf{be}\,\mathsf{accepted}.$
- 2. Items should be packed and shipped as recommended by the manufacturer.

Items which are not in standard and appropriate packing will be rejected.

- 3. Goods supplied in excess quantity will not be accepted. Such material should be taken back at your cost.
- 4. Goods should be accompanied by a proper invoice and delivery challan
- 5. Invoice should indicate individual full ordering part number or such details to distinguish the individual part.
- 6. Invoice should clearly indicate our Purchase Order Number and Date
- 7. Shipping at your cost.
- 8. Any delay in delivery must be communicated.

The PO is subject to cancellation if the goods are delayed beyond two weeks of the quoted delivery period.

- 9. Taxes included, unless otherwise stated
- 10. It is important that VENDOR signs and returns the Purchase Order copy within Seven(7) days of receipt.

Failure to return the Order acceptance within a week will be automatically treated as accepted by Vendor.



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City Office: 10, Pandian Saraswathi St, Sivagami Nagar, Narayanapuram, Madurai - 625 014. Telefax- 0452 2682338, Mobile: 98423-02628

Date: 04.10.2022

Ta

A&T VIDEO NETWORKS PVT. LTD.

8B, Abdul Gaffer khan Road,

Chinna Chokkikulam,

Madurai - 625 002.

Dear Sir,

Sub: Request for approval and support for funded Project-reg

We, Electronics and Communication Department of Pandian Saraswathi Yadav Engineering College is functioning very effectively from 2000. We are ready to do funded project on "Designing Charges for Electronic components of video conferencing camera" in association with your concern. This project will go to work by our faculty investigator Dr.S.Manikandan, Associate Professor, ECE Department. It helps this is project to our faculty seems to be innovative and would be high social relevance. Kindly accept the same.

Thanking you,



PRINCIPAL

Ur. K. KANG

PRINCIPA

PRINCIPA

PANDIAN SARASWATHI YADAV

ENGINEERING COLLUGE

Arasanoor, Thirumansolai P.O-630 56.

Sivagangai Dist, Tamil Nadu



(Approved by AICTE & Affiliated to Anna University, Chennai)

City Office: 10, Pandian Saraswathi St, Sivagami Nagar, Narayanapuram, Madurai - 625 014. Telefax- 0452 2682338, Mobile: 98423-02628

#### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

#### PROJECT PROPOSAL FOR POSSIBLE FUND

S.No	Items	Details	
1.	Project Title	Designing Charges for Electronic components of video	
		conferencing camera	
2.	Project Type	It involves selecting electronic components such as	
		image sensors, lenses, processors.,	
		It involves circuit design, PCB Design, embedded system development, image processing algorithms, mechanical design, optical design followed by testing and validation.	
3.	Objectives  The objective is to Design electronic comp facilitate high-resolution video capture, supprocessing, and smooth video streaming to clear visuals during video conferences.		
		To Develop electronic components that enable high-fidelity audio capture, noise cancellation, and echo suppression to ensure clear and natural sound reproduction, enhancing communication clarity.	
4.	Summary	From this proposal, The project focuses on designing electronic components for a cutting-edge video conferencing camera system tailored for seamless communication experiences. The objectives include enhancing video and audio quality, optimizing transmission latency, ensuring reliable connectivity, and providing an intuitive user interface.	
5.	Methodology	The methodology includes component selection followed by circuit design, PCB layout, Embedded firmware Development and Integration and Testing.	
6.	Total Cost Required	Rs. 5,00,000/-	



xales@atnetindia.net

**\$** +91 452 4392222

**183.82.33.92** 

www.atnetindia.net

CIN: U72900TN2000PTC046137 GST: 33AAFCA1599Q1Z5

#### WORK ORDER

Order No: WO-1112

12-Nov-22

M/S.Pandiyan Saraswathi Yadav Engineering College

Madurai Sivagangai Highway, Arasanoor - 630561

S.No	Description	Rate	UOM	Amount
1	Designing Charges For Electronic Components of Video Conferencing Camera	500,000.00	LS	500,000.00

TOTAL

500,000.00

Amount In Words: Rupees Five Lakhs Only

Company's GSTIN No. : 33AAFCA1599Q1Z5 Company's PAN No. : AAFCA1599Q

For A&T Video Networks Pvt Limited

**Authorised Signatory** 



(Approved by AICTE & Affiliated to Anna University, Chennai)

Madurai - Sivagangai Highway, Arasanoor, Thirumansolai Post, Sivagangai Dt. - 630 561, Tamilnadu Mobile : 9842102628, 7373002628 Email: info@psyec.edu.in Website : www.psyec.edu.in

City Office: 10, Pandian Saraswathi St, Sivagami Nagar, Narayanapuram, Madurai - 625 014. Telefax- 0452 2682338, Mobile: 98423-02628

Date: 26.05.2024

Τo

M/s A&T VIDEO NETWORKS PVT. LTD

Madurai, Tamilnadu

UTILISATION CERTIFICATE

Name of the guide : Dr.S.Manikandan

Title of the project : Designing Charges for Electronic components of video

conferencing camera

3.Sanctioned Date : 12.11.22

It is certified that a sum of Rs. 5,00,000/-( Five Lakhs only)

Sanctioned by the company for carrying out above mentioned student project has been
utilized for the purpose for which it was sanctioned and sum of Rs.0 (Nil) remaining
unutilized is refunded.

Signature of the Principal Investigator

Signature of the PRINCIPAL with seal or, R. R.A.J.A. M.E., Pala... PRINCIPAL PANDIAN SARASWATH YADAW (NOINEEFFIC. GOLDER LASSING, Tanasana in P.O. 450 961 Strayangue Dest., Tacas Nizós