

#### 14. SEED MONEY

### **LIST OF FACULTIES**

Year	No . of Beneficiary	Amount
2022-23	4	2,00000

Sl.No	Name of faculty	Project Tittle	amount
1	Ms.Anitta Jose	Durability and strength behaviour of nano material incorporated filament wound composite pipes	50000
2	Ms.Anitha Babu	Application of image recognition in safety management	50000
3	Mr.Appu Kurian	Tribological behaviour and charcterization of magnesium based nano composites	50000
4	Mr.Anoop K R	Indoor Smart Hydroponic system	50000



# VIMAL JYOTHI ENGINEERING COLLEGE

JYOTHI NAGAR, CHEMPERI - 670632, KANNUR, KERALA

Affiliated to APJ Abdul Kalam Technological University  
Approved by AICTE + ISO 9001:2015 Certified  
Accredited by Institution of Engineers (India), NBA, NAAC



FILE No. VJEC/SANCTION/-----


## SANCTION LETTER

Manager, Vimal Jyothi Engineering college, Chemperi is pleased to sanction funding for the proposal as detailed below:-

Reference :	
Name of the Staff/faculty:	MR. APPU.C. KURIAN
Department :	MECHANICAL ENGINEERING
Purpose:	VJEC SEED GRANT RESEARCH WORK
Amount sanctioned :	Rs. 50,000/- (Fifty thousand only)

The proposed work need to be completed in time bound manner and report along with expenditure details to be submitted account section at an early date for audit in the current the financial year

Financial Sanction

  
21/08/23

  
Manager

From,

Appu Kustan

Asst. Prof, ME Dept  
VJEC

outcome

31/03/23 of international  
journal papers.

Jul  
30/3/23

Jul  
30/3/23

To,  
The principal  
VJEC

Sub:- Application for VJEC Seed grant as per the  
policy of VJEC VJEC/HR/01/2023 dated 20.01.2023

Sir,

As part of encouraging the research work  
practice among faculties of VJEC, I would like to  
avail the opportunity to apply for the VJEC seed grant  
money for doing the work titled 'Tribological  
behaviour and characterization of magnesium based  
nano-composites' by myself as PI and Dr. Christopher  
Ezhil Singh as the co-PI. kindly go through the proposal  
and grant me the opportunity to conduct this research,  
if found satisfactory.

Chempoo's  
28/03/2023

Yours faithfully

Jul  
28/3/2023  
Appu Kustan

Jul  
31/03/23.

Recommended  
Jul  
29/03/23

Jul



**VIMAL JYOTHI ENGINEERING COLLEGE**  
 JYOTHI NAGAR, CHEMPERI - 670632, KANNUR, KERALA

ACCREDITED BY IEI, NBA & NAAC • ISO 9001:2015 CERTIFIED  
 APPROVED BY ALL INDIA COUNCIL FOR TECHNICAL EDUCATION  
 AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

**14. Budget:**

Sl.No	Item Description	Type (Equipment /Consumable/Testing Charges/Others)	Qty	Unit Price in Rs.	Amount in Rs.	Justification
01	Material- Mg-Ingot	Consumable	7000 gm	1,575/Kg	11,025	Base metal
02	Material-Zinc	Consumable	500gm	2,360/kg	1,180	Added in percentage
03	Material-Sr	Consumable	150gm	35,400/Kg	5,310	Added in percentage
04	Material-HA	Consumable	200gm	73,160/Kg	18,290	Added in percentage
05	Sample preparation-Stir Casting	Stir Casting - Product(s)	7	3,300	23,100	Inert atmosphere is required
06	SEM&EDAX	Testing Charges- AFTER CASTING Testing Charges AFTER WEAR TEST	7 specimen *2 times	800	11,200	Testing to be done in DINDIGUL-Gandhigram institute
07	TEM	Testing Charges	1	6,750	6,750	Testing on Nano sized HA particle only
08	XRD	Testing Charges- AFTER CASTING Testing Charges AFTER WEAR TEST	7 specimen *2 times	400	5,600	Testing to be done in KANNUR UNIVERSITY CAMPUS IN PAYYANUR
09	Sliding Test	Testing Charges-VARYING SLIDING DISTANCE AND VARYING WEIGHT	7	1,500/SLIDING DISTANCE/SPECIMEN	10,500	Only one sliding distance is testing with different weights. That is applicable to 7 specimen
Total (in INR)					92,955/-	

Sanctioned to purchase materials for this

Project.

By advance 50000/-

R. Laxmi

*(Signature)*  
21/05/23



Appu Kurlan <kuriazachariah08@gmail.com>

Ph.D enrollment - OS 2022-23 - reg

1 message

Mech Office <mech\_office@karunya.edu>

9 August 2022 at 10:37

To: arokiaraja.iits@gmail.com, amidhin1729@gmail.com, kuriazachariah08@gmail.com, premkrishnanp7@gmail.com, pvabhilahkumar@gmail.com, MEJOFRANCIS@gmail.com, krishnakumar19232725@gmail.com  
Cc: "Mr. WILSON KUMAR M. 744" <wilson@karunya.edu>, "Mr. BRUSLY SOLOMON A. 748" <brusly@karunya.edu>, Dr. Malkiya Rasalin Prince 2145 <malkiya@karunya.edu>, "Mr.G.Lawrance 1678" <lawrance@karunya.edu>, "Mr. PHILIP SELVARAJ D. 156" <phillipselvaraj@karunya.edu>, "RAJAKUMAR S. RAI 390" <rajakumars@karunya.edu>, "Dr. LEO DEV WINS K 191" <leo@karunya.edu>, HOD Mechanical Karunya <hod\_mech@karunya.edu>, Mech Office <mech\_office@karunya.edu>

Dear All,

The following supervisors are allotted to the research scholars joined during the year 2022-23 (ODD SEM) in the Department of Mechanical Engineering. The official communication for conducting DC meeting will be sent to all scholars and supervisors shortly

S. No.	Appl. No.	Name of the Candidate	Contact number of candidates	Name of the Supervisor	Contact number of Supervisor
1	226000029	Arockiaraja P	8838100190	Dr. M. Wilson Kumar	8778014464
2	226000116	Nidhin AR	7907541928	Dr. A. Brusly Solomon	8220023860
3	226000165	Appu c kurian	9447681318	Dr. R. Malkia Rasalin Prince	9486913582
4	226000299	Premkrishnan P	9745069698	Dr. G. Lawrance	9042342252
5	226000304	Abhilash Kumar	7907674824	Dr. D. Philip Selvaraj	9994650780
6	226000335	Mejo M Francis	9744490150	Dr. Rajakumar S. Rai	9940985882
7	226000207	Krishna kumar M	9524161107	Dr. K. Leo Dev Wins	9894822791

Thanks and Regds

Dept. Office,  
Dept of Mechanical Engineering,  
School of Engineering and Technology,  
Karunya Institute of Technology and Sciences,  
Karunya Nagar,  
Coimbatore - 641 114.

Intercom Nos : 4430  
Tel Nos : 0422 - 2614430

**Vimal Jyothi Engineering College**

**Chemperi**

**FILE No. VJEC/SANCTION/-----**

**SANCTION LETTER**

Manager, Vimal Jyothi Engineering College, Chemperi is pleased to sanction funding for the proposal as detailed below:-

<b>Reference :</b>	Request letter Dated on 21/02/2023
<b>Name of the Staff/faculty:</b>	ANOOP K R
<b>Department :</b>	DEPARTMENT OF MECHANICAL ENGINEERING
<b>Purpose:</b>	The amount for the purchase of components required for the project 'Indoor Smart Hydroponic System'.
<b>Amount sanctioned :</b>	Rs. 50,000/-

The proposed work needs to be completed in time bound manner and the report along with expenditure details to be submitted account section at an early date for audit in the current financial year

Date:

Bursar

*Dr. Laxan Varambakal*  
ADMINISTRATOR & BURSAR  
VIMAL JYOTHI ENGINEERING COLLEGE  
CHEMPERI - 670 632, KANNUR DT.

  
Manager

**FT. JAMES CHELLAMKOTTU**  
MANAGER  
VIMAL JYOTHI ENGINEERING COLLEGE  
CHEMPERI - 670 632  
KANNUR DIST.

From

Anoop KR  
Assistant Professor  
VJEC, Kannur

To

The Principal  
VJEC, Kannur

- Sub: List of components to be procured for the proposed project titled 'Indoor Smart Hydroponics System'.

Respected Sir,

In order to implement the proposed Indoor Smart Hydroponics System, it is necessary to purchase several components. Please find attached the list of components needed to make the first prototype, which costs Rs 85,432/-. Please support the procurement of these items.

Regards and thanks

*Anoop*  
15/04/2023  
Anoop KR  
Signature of  
21/04/23

Recommended

An advance of Rs 50,000/- may be released for the purchase of components online.  
15/04/2023  
15/04/2023  
15/04/2023  
Prinj action  
R. Soman -

# Project Proposal

**Project Title: Indoor Smart Hydroponic System**

**Category: Agriculture-based IoT Project**

**Submitted by: Anoop K R,  
Assistant Professor  
Mechanical Engineering  
Vimal Jyothi Engineering College**

**Submission date: 21<sup>st</sup> January 2023**

**Project Start Date: 13<sup>th</sup> February 2023**

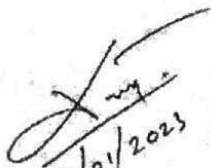
*(Expected, depending on the fund allocation)*

**Expected Project End Date: 28<sup>th</sup> February 2024**

**Completion of the initial prototype by: 15<sup>th</sup> April 2023**

**Proposed Amount: Rs. 1,38,150/- (Rupees One lakh thirty-eight thousand one hundred and fifty only)**

*(Please refer to Appendix: A, Detailed Expense section)*

  
21/01/2023  
Anoop K R



## Application format for Research Seed Money

1. Title of the Research Proposal: **Durability and Strength Behaviour of Nanomaterial Incorporated Filament wound Composite Pipes**

2. Name & address & experience of Investigator  
(*Mobile No. and e-mail are mandatory*):

**Anitta Jose**  
**Assistant Professor**  
**Dept. of Civil Engg.**  
**Vimal Jyothi Engineering College**  
**Mob: 8606668696**  
**E-mail ID: anittatreesajose@gmail.com**

3. Teaching experience of Principal Investigator: **3.8 years**

4. Objectives of Research (150 words):

**To carry out a detailed experimental study on durability and strength behaviour of filament wound nanocomposite pipe under chronic environmental conditions namely moisture absorption and hydrothermal ageing**

5. Broad Subject area / field of classification:

**Structural Engineering (Civil Engineering)**

6. Project Type(s) (Basic Research / Applied Research / Developmental / Demonstration / Others):

**Applied Research and Developmental**

7. Abstract (400 words):

India has got an elaborate pipeline transport network and its application spans from domestic to industrial purposes. These ensures an uninterrupted flow of water, oil, natural gas and non-conventional fossil fuels as well as biofuels. Conventional pipelines are made from metals or ceramics and in recent decade it has been replaced by High Density Polyethylene (HDPE) pipes. HDPE pipes have satisfactory performance compared with traditional pipeline materials, but several cases of failure and areas for improvement were identified by researchers. The bursting of water pipes is a common occurrence that is attributable to instances of improper pipework or an unequal subjection of water pressure. Pipes can also be subjected to pull-out failure and this occurs mainly at the junction between horizontal buried pipes and vertical build structures, such as pump stations. These observed failures resulted in stringent codes of practice for manufacturing and pipeline installation, accompanied by development of higher performance materials and the associated test methodologies that validate their performance.

Fibre reinforced polymer (FRP) composites are material forms which consist of strong fibres (continuous) bound in a polymeric matrix. FRP has good corrosion resistance and high strength-to-weight ratio. It has been proved recently that the mechanical properties (such as

14. Budget Details: Estimated expenditure

Sl. No	Item	Amount (Rs.)
1.	Consumables- composite manufacturing, pipe fabrication charges (Do not exceed 20% of the total amount)	15,000
2.	Composite pipe manufacturing and coupon extraction	40,000
3.	Inter college lab facilities	7000
4.	Travel (Do not exceed 10% of the total amount)	8000
5.	Contingencies (Do not exceed 10% of the total amount)	10,000
	Total	80,000

15. The sources of funding the project including funds from other agencies from which financial assistance is obtained/expected to be obtained, and the quantum of assistance from each agency: NIL

16. Quantum and nature of assistance expected from the VJEC:

Full financial assistance for the successful completion of the research project

17. Whether grant under this scheme had been availed earlier by the investigator: (If so, provide details): No

18. Details of projects already undertaken by the Principal Investigator with any other funding agency: No

**Declaration**

Certified that the details furnished above are correct to the best of my knowledge and belief and that the amount of financial assistance, if granted, will be utilized for the purpose for which it is granted within the time prescribed by VJEC. I also undertake to abide by the rules and other conditions prescribed by the grantee. I hereby assure that, after successful completion of the proposed research, two journal publications will be acknowledged in the name of VJEC in reputed journals.

Anitta Jose  
Name and Signature of the Investigator 11/5/23

Investigator

*[Signature]*  
11/5/23

*[Signature]*  
Name and Signature of Head of the Institution

(Office seal)

Place: Chemperi

Date: 11/5/23

Forwarded to Manager

*[Signature]*  
12/05/23

Sanctioned Rs - 50000/-

*[Signature]*

Pay advice Rs - 30000/- *[Signature]*  
29/5/23

*[Signature]*  
12/5/23

7/6/23

# Vimal Jyothi Engg. College, Chemperi



No. 53

Name Amita Jose

Amount (in words) Rupees Twenty Thousand only

Account head Staff welfare: Research & publication

Purpose for Research seed money paid to staff

Name of Bank \_\_\_\_\_ A/c.No. \_\_\_\_\_ Cheque No. \_\_\_\_\_

₹ 30,000/-

1100

Receiver's Signature

Cashier

Accounts Officer

Bursar

Manager

## Application format for Research Seed Money

1. Title of the Research Proposal: **Application of Image Recognition in Safety Management-Building Constructions**

2. Name & address & experience of Investigator

*(Mobile No. and e-mail are mandatory):*

**Anitha Babu**

**Assistant Professor**

**Dept. of Civil Engg.**

**Vimal Jyothi Engineering College**

**Mob: 7736110753**

**E-mail ID: anitha02beti@gmail.com**

3. Teaching experience of Principal Investigator: **8 years 11 Months**

4. Objectives of Research (150 words):

**Introduction of image recognition in construction industry as a solution for better safety management based on the analysis.**

5. Broad Subject area / field of classification:

**Construction Management (Civil Engineering)**

6. Project Type(s) (Basic Research / Applied Research / Developmental / Demonstration /Others:

**Applied Research and Developmental**

11. Particulars of equipment required:

Sl. No.	Item	Rate	Quantity	Total
1	5MB DVR HIK VISION 4 CHANNEL	6200	1	6200
2	1 TB TOSHIBA SURVEILLANCE HARD DISK DRIVE	3350	1	3350
3	ERD SMPS POWER SUPPLY 4 CHANNEL 5amz, 12v Dc,	690	1	690
4	HIK-VISION 5MP BULLET CAMERA Water & wether proof, 3.6mm lence, 20mtr IR, HD voice recording	1980	4	7920
5	CO BOX	40	4	160
6	BNC CONNECTOR HEAVY DUTY cctv cable connector	35	8	280
7	DC CONNECTOR HEVY DUTY Camera power connector	20	4	80
8	D-LINK 3+1 CCTV CABLE (Aprox)	25	50	1250
9	INSTALLATION AND DVR CONFIGURATION CHARGE	1000	1	1000
10	SOFTWARE TRAINING	35000		35000
	TOTAL			Rs 55,930

Sachind Rs. 50000/-

Day advance Rs. 30000/-

29/05/23

12. Particulars of any other facilities required: Nil

13. Whether the project was submitted to any other organization for financial support:  
NO

14. Budget Details: Estimated expenditure

15. The sources of funding the project including funds from other agencies from which financial assistance is obtained/expected to be obtained, and the quantum of assistance from each agency: NIL

16. Quantum and nature of assistance expected from the VJEC:

**Full financial assistance for the successful completion of the research project**

17. Whether grant under this scheme had been availed earlier by the investigator: (If so, provide details): No

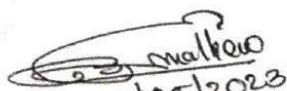
18. Details of projects already undertaken by the Principal Investigator with any other funding agency: No

#### Declaration

Certified that the details furnished above are correct to the best of my knowledge and belief and that the amount of financial assistance, if granted, will be utilized for the purpose for which it is granted within the time prescribed by VJEC. I also undertake to abide by the rules and other conditions prescribed by the grantee. I hereby assure that, after the successful completion of the proposed research, two journal publications will be acknowledge in the name of VJEC in reputed Journals.

Name and Signature of the Investigator

Anitha Babu

  
10/05/2023  
HOB, CA.

(Office seal)


Place:

Date:

Name and Signature of Head of the Institution



Forwarded to manager

  
12/05/23

Vimal Jyothi Engg. College, Chemperi

7/6/23



No. 598

Name Amma Babu

Amount (in words) Rupees Misc. Amount only

Account head Research & publications

Purpose for Research seed money paid to staff

Name of Bank

A/c.No.

Cheque No.

₹ 30,000/-

1190

Cashier

Accounts Officer

Bursar

Manager

Receiver's Signature