

**3.1.2. The amount of seed money provided by institution to its teachers for research year wise during last five years**

**3.1.2: The amount of seed money provided by institution to its teachers for research year wise during last five years (INR in lakhs)**

SI No.	Name of the teacher provided with seed money	Title of the Research Project	Amount (in Lakhs)	Page Nos
<b>2020-21</b>				
1.	Dr. K. Ramani (IT)	A Dynamic Object Detection for Visually Impaired	1.5	1-10
2.	Dr. S. Prabhu & Dr. B. Hemanth Kumar (EEE)	Design, Analysis Implementation and Testing of Novel high power	1.6	11-18
3.	Dr. A. Chithambar Ganesh (Civil Engg)	Development of Sustainable paver block using hazardous waste	1.8	
4.	Dr. T. Hari Prasad (Mech Engg)	Experimental studies on Thermal energy storage system using composite phase change materials	0.6	
5.	Ms. M. Bharathi & Dr. N. Padmaja (ECE)	Design and Implementation of new architecture of MAC core for real digital signal processing application.	1	
<b>Total</b>			<b>6.5</b>	
<b>2019-20</b>				
6.	Dr E Parimalasundar & Dr D Suresh Babu (EEE)	Real time monitoring and fault identification in multilevel inverter fed induction motor drive	0.50	20-34
7.	Dr Dadamiah PMD Shaik (BS & H)	Investigations on electro chemical performance of graphene/Mn304 nano films for super capacitors	1	35-38
8.	Dr. N. Manikandan & Dr. J.S. Binoj (Mech Engg)	A comparative study on wire electrical discharge machining of aerospace materials	1	39-48
9.	Ms. K. Neelima (ECE)	Adjacent error detection and correction for Fundus images	1.5	49-57
10.	Dr. Argha Sarkar (ECE)	Fabrication and characterization of Resistive Random Accesses Memories (RRAMs) for energy efficient solution	1.75	58-61
11.	Dr. K. G. Suma (CSE)	Detection of Glaucoma in fundus images using soft computing techniques	0.5	62-64
12.	Dr. R. Vinoth (Mech Engg)	Study of heat transfer and fluid flow through micro channel heat sink using nanofluids	1.75	65-67
13.	Dr. B. Sachuthananthan (Mech Engg) & Dr. A. Kesavulu (BS & H)	Carbon capture of CI engine with blends of methyl ester of micro algae as alternate fuel	1	68-77
14.	Dr. M. Babu Raj (Mech Engg) & Dr. S. Ragu Nathan (Mech Engg)	Investigation on minimum thickness sheets which can be achieved by wire electrode discharge machining process	1.6	78-87
<b>Total</b>			<b>10.6</b>	
<b>2017-18</b>				
15.	Mr. D.N. Kartheek (CSSE)	Smart Class time management system	0.1	89-94
<b>2016-17</b>				
16.	Mr. K Ayyappa Swamy (EIE)	DST-TIDE Research Project Presentation	0.45	96-98
<b>Grand Total</b>			<b>17.65</b>	



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**SREE VIDYANIKETHAN ENGINEERING COLLEGE  
(AUTONOMOUS)**

**Sree Sainath Nagar, A. RANGAMPET  
Chittoor (Dist.) - 517 102, A.P., INDIA.**

**2020-21**

**SANCTION ORDER**

To,

Date: 30.01.2019

**Dr. K. Ramani,**  
Department of IT

Sir/Madam,

**Sub:** Sanction of Seed Grant for carrying out Research activities – Reg.

We are glad to inform you that your proposal titled "**A dynamic object recognition system for visually impaired**" for providing **Financial Assistance under Seed Grants** has been accepted by the Committee constituted for selection of projects and approval has been accorded to release an amount of **Rs. 1.5 lakhs** to initiate the research activities.

The Principal Investigator has to present the progress of their project in front of a committee on a quarterly basis. The project should be completed within the prescribed duration and the Expenditure statements and Utilization Certificates have to be submitted during the end of financial year.



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- Sree Sainath Nagar, Tirupati,  
Andhra Pradesh - 517 102.
- +91-877-2504888
- +91 9160999977
- [www.vidyanikethan.edu](http://www.vidyanikethan.edu)

## **Internally Funded (Seed Money) Project - Details**

Project Title : A Dynamic Object Detection for Visually Impaired

Department : Information Technology

Name of the PI : Dr. K. Ramani

Name of the Co-PI (if any) : --NA--

Affiliation of PI & Co-PI : Professor & Head, Dept. of IT, SVEC

Year of Funding (Financial year) : 2020-21

Project Duration : 2 Years

Amount Sanctioned (in Rs.) : 1,50,000/-

Abstract/Brief Summary of the project :

### Objectives of the project:

- To design and develop a novel camera-based approach to automatically detect and recognize objects of surrounding environment.
- To develop a text to audio translation system.
- To develop an approach to find the distance between object and human and intimating the same through audio.
- To develop a Mobile App for object recognition with above features.
- To develop approaches for navigation and way finding and to enable independent access unfamiliar indoor and outdoor environments and avoid dangers.

Work Done till date :

- Presented a paper titled Multi-Object Detection System for Visually-Impaired, International Conference on Smart Computing and

Control of Systems (ICSCCS-2019) organized by Sree Vidyanikethan Engineering College, Tirupati during 17-19 October, 2019

- Presented a Paper Titled "Virtual Tourist Guide APP" in 3<sup>rd</sup> International Conference on New Scientific creations in Engineering and Technology on 19.03.2021

Expected Outcomes :

1. Optimized algorithms for object recognition
2. A voice based navigation system for visually impaired people.
3. Interior and exterior object identification with distance.
4. Historical places description through AR and VR techniques

*K. Ramani*  
(Principal Investigator Name)  
(Dr. K. RAMANI)

**Dr. K. RAMANI**  
Professor & Head  
Dept. of Information Technology  
Sree Vidyanikethan Engineering College  
A. RANGAMPET-517 102

Photo(s)

ASB Account	05-75 Years	Accidental Cover Only	1,00,000
ASB Plus Account	05-75 Years	Accidental Cover Only	1,50,000
ABG Account	05-75 Years	Accidental Cover Only	1,00,000
ABJ Account	18-55 Years	Accidental and Natural Death Cover	1,00,000
ABJ Plus Account	18-55 Years	Accidental and Natural Death Cover	1,50,000
ABJ Double Plus Account	18-55 Years	Accidental and Natural Death Cover	1,50,000
ABJ Triple Plus Account	18-55 Years	Accidental and Natural Death Cover	1,50,000
AB Kiddy Bank (Kids Khazana)	0-18 Years	For Child - Accidental Cover	1,50,000
	18-70 Years	For Parent / Guardian Cover	1,50,000
AB Arogyadan	3 Months-70 Yrs	Renewable life long	
Deposit Schemes	RD Account, RD Plus Account Fixed Deposit, Kalpaturu Deposit, AB Tax Saver Deposit, AB Freedom Deposit, AB Double Deposit, AB Money-Time Deposit		

For Further Information and scheme details please contact the nearest branch

\* Conditions apply

- ★ Andhra Bank is merely a mobilizer / facilitator for the Insurance and is no way liable for any claim. For the name of the Insurer & applicable terms and conditions of Insurance, customer may approach the Branch or refer Bank's website [www.andhrabank.in](http://www.andhrabank.in)
- ★ For the applicable rates of interest contact the Branch or refer Bank's website [www.andhrabank.in](http://www.andhrabank.in)

Dr. Ramana, 15

Note: 1. Account holders are requested to maintain sufficient balance in the account for deduction of Insurance premium and also to verify whether the premium is deducted or not on due dates. Bank will not be responsible for non-deduction of premium due to paucity of clear funds in the account.  
2. While presented for updation of the Pass Book a new line appear every time at the end of transactions. Acronyms / Abbreviations used are provided in the last page.

शाखा /Branch

1540 SRI VIDYA NIKETHAN

ETIRUPATHI

CHITTOR DIST, ANDHRA PRADESH

TIRUPATHI

ANDHRA PRADESH -517102

खाताधारक का नाम

Name of A/c Holder

M/S DYNAMIC OBJECT RECOGNITION

पत्ता Address

SREE VIDYANIKETHAN ENGINEERING COLLEGE  
SREE SAINATH NAGAR A RANGAMPETA

फोन नंबर

Phone No.

TIRUPATHI  
ANDHRA PRADESH-517102

प्रकार /Mode

919963971785

AUTHORISED SIGNITORY / CONS. ATTORNEE

07-05-2010



पास बुक PASS BOOK



Comp. No. 11302

BrPh : 0877-2247949

IFSC CODE: UBIN0815403

MICR CODE: 517011007

bm1540@andhrabank.co.in

खाता नंबर 154010100123186

A/c. No.

Scheme Code: SBOGP

CUST.ID : 58772118

पथान कार्यालय सैफाबाद हैदराबाद - 500 004

Account Date	Particulars	Cheque No.	Amount Withdrawn	Amount Deposited	Balance	Initial
18/05/2019	CASH RECEIPT			500.00	500.00Cr	
06/06/2019	Int. Pd: 070519 to 310519			1.00	501.00Cr	
18/06/2019	CS01 SMS Chrgs/Apr-Jun		18.00		483.00Cr	
06/09/2019	Int. Pd: 010619 to 310819			4.00	487.00Cr	
18/09/2019	CS01 SMS Chrgs/Jul-Sep		18.00		469.00Cr	
03/12/2019	Int. Pd: 010919 to 301119			4.00	473.00Cr	
17/12/2019	CS01 SMS Chrgs/Oct-Dec		18.00		455.00Cr	
05/03/2020	Int. Pd: 011219 to 290220			4.00	459.00Cr	
12/04/2020	Int. Pd: 010320 to 310320			1.00	460.00Cr	
22/06/2020	CS01 SMS Chrgs/Apr-Jun		17.70		442.30Cr	
07/07/2020	Int. Pd: 010420 to 300620			3.00	445.30Cr	
20/09/2020	CS01 SMS Chrgs/Jul-Sep		17.70		427.60Cr	
04/10/2020	Int. Pd: 010720 to 300920			3.00	430.60Cr	
(Date:02-12-2020 Clr Bal: Cr Rs.430.60			Avail AmtCr Rs.430.60	Eff Bal:Cr Rs.430.60	)	

Dr. Ramana  
15

20/12/2020	CS01 SMS Chrgs/Oct-Dec		17.70		412.90Cr	
24/12/2020	TRF SREE VIDYANIKETHAN			150000.00	150412.90Cr	
(Date:01-01-2021 Clr Bal: Cr Rs.150412.90			Avail AmtCr Rs.150412.90	Eff Bal:Cr Rs.150412.90	)	

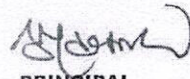


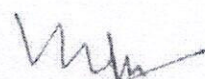
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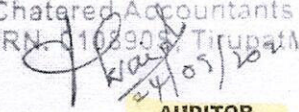
SREE VIDYANIKETHAN ENGINEERING COLLEGE  
SREE SAINATH NAGAR, A.RANGAMPET  
CHANDRAGIRI MANDAL CHITTOOR DISTRICT, A.P.

PROVISIONAL BALANCE SHEET AS ON 31.03.2021

LIABILITIES	Amount Rs.	Amount Rs.	ASSETS	Amount Rs.	Amount Rs.
Capital Fund of SVET (O.B)	50,23,21,620		<b>FIXED ASSETS:</b>		
Add: Excess of Income over expenditure	3,30,86,480	53,54,08,100	I. Land		13,98,547
Endowment Fund		8,50,000	II. Buildings		
<b>Loans &amp; Advances:</b>			Gross Block (Sch. III)	1,25,19,29,430	
I. Secured Loans:			Less: Depreciation	38,53,95,729	
Adhra Bank Term Loan - V	-		Add: Building under constr. (W.I.P)	-	86,65,33,701
Adhra Bank New Term Loan	77,34,04,894		III. Plant/Machinery		
Andhra Bank Vehicles Loan	9,43,701		Gross Block (Sch. III)	62,83,89,908	
HDB Financial Services	-		Less: Depreciation	45,36,07,371	17,47,82,537
ICICI Bank - Vehicle loan & Equipment Loan	-	77,43,48,595	IV. Equipments-MODROBS:(AICTE)		
<b>Other Liabilities:</b>			Computers/Accessories and other Equipments - IT	45,01,757	
Amounts payable	7,95,85,510		Lab Equipments-ME	86,470	
Provision for Gratuity	7,09,87,521		Lab Equipments-CSSE	1,79,843	
Professional Tax payable	1,150		Machinery/Equipment-EEE	26,77,278	
Undisbursed salaries	5,07,44,030		Computers & Accessories - CSE	8,29,267	
Caution Deposit	2,31,73,301		Lab Equipments, Computers etc. - ECE	34,85,025	
Sundry Creditors (Sche.-I)	4,31,52,381		Computers & other Equipments - GEBH	8,69,106	
Security deposit from Staff	3,00,546		Machinery/Equipment-EIE	26,32,832	
Students Security Deposit	37,68,820		Lab Equipments - CE	7,83,799	
Excess fee (Refundable to Students)	4,06,57,727	31,23,70,986	Computers & Accessories - MCA	3,49,119	1,63,94,496
			<b>OTHER ASSETS:</b>		
			I. Advances/Deposits :-		
			Advances (Sch. II B & C)	9,98,51,892	
			SEED Money Advances & Development [Research]	1,50,000	
			Deposits (Sch-III)	6,13,13,565	16,13,15,557
			Amounts Receivable		34,65,46,929
			Pre-Paid Insurance & Expenses		41,76,729
			Pre-Paid Affiliation fee		18,36,919
			II. Cash & Bank Balances :-		
			Bank Balances (Schedule-IV)	4,99,77,673	
			Cash - Exam. Cell	14,591	4,99,92,264
<b>Total</b>		<b>1,62,29,77,681</b>	<b>Total</b>		<b>1,62,29,77,681</b>

  
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SREE VIDYANIKETHAN ENGINEERING COLLEGE  
(AUTONOMOUS)  
Sree Sainath Nagar, A. RANGAMPET  
Chittoor (Dist.) - 517 102, A.P., INDIA.

  
**DIRECTOR**  
(Finance & Administration)  
**DIRECTOR**  
(FINANCE & ADMINISTRATION)  
SREE VIDYANIKETHAN EDUCATIONAL TRUST  
Sree Sainath Nagar, A. RANGAMPET-517 102  
Chittoor (Dist), A.P.

For M/s. Rajagopal Naidu & Co  
Chartered Accountants  
FRN: 1108909, Tirupathi  
  
24/05/2021  
**AUDITOR**  
Mg. Pr.: M. RAJAGOPAL NAIDU F.C.A.  
(M No 021219)

**Attended**  
  
**PRINCIPAL**  
**SREE VIDYANIKETHAN ENGINEERING COLLEGE**  
(AUTONOMOUS)  
Sree Sainath Nagar, A. RANGAMPET  
Chittoor (Dist.) - 517 102, A.P., INDIA.

7/10

Dt:29.12.2020

From  
**Dr. K. RAMANI**  
Professor and Head  
Dept. of Information Technology  
S.V.E.C., A.Rangampet- 517 102

To  
**The Principal**  
Sree Vidyanikethan Engineering College  
A.Rangampet- 517 102

Respected Sir,

Sub: Request for release of fund-purchase of items- Internal Funded project under seed money scheme- Reg.

Ref: No. SVET/Approval/SEED DST Funds/SVEC/0237/2018, Dt. 29.11.2018

I inform you that the following items for the Internal Funded project under seed money scheme titled "**A Dynamic Object Recognition System for Visually Impaired**" implementation are required (The costs are obtained from e-commerce website Amazon). Hence, I request you, to provide the same as early as possible.

S. No	Item Description	No. of Units	Cost (Rs.)
1.	Raspberry PI 4, 8 GB RAM Combo kit	01 No.	9,000/-
2.	PI camera	02 No.	800/- (@400/- per unit)
3.	Ultrasonic Sensors	06 No.	900/- (@150/- per unit)
4.	Soil Moisture and LDR Sensors	01 No.	200/-
5.	Switch	01 No.	500/-
6.	Soldering Kit	01 No.	400/-
7.	Re-chargable Battery (Ambrane 27000mAh Li Polymer)	01 No.	2,000/-
8.	Speakers (USB based Zebronic)	01 No.	700/-
<b>Total</b>			<b>14,500/-</b>

Thanking you sir,

Approved for 14,500/-

P.C. Chary

29/12/2020

Yours faithfully,

K. Ramani  
(K. Ramani)



# SREE VIDYANIKETHAN ENGINEERING COLLEGE

(AUTONOMOUS)

Sree Sainath Nagar, A. Rangampet - 517102

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## Expenditure Statement for Seed Money

Title: A Dynamic Object Recognition System for Visually Impaired

Ref. No. SVET/Approval/SEED DST Funds/SVEC/0237/2018, Dt. 29.11.2018


### Expenditure Statement:

S. No	Item Description	No. of Units	Cost (Rs.)
1.	Raspberry PI 4, 8 GB RAM Combo kit	01 No.	8,598.00
2.	Night Vision camera	01 No.	1,498.00
3.	Ultrasonic wave detector ranging module distance Sensor for arduino	01 No.	780.00
4.	Soldering Kit	01 No.	525.00
5.	Power bank (Ambrane 27000mAh Li Polymer)	01 No.	1,699.00
6.	Multimedia Speakers (USB based Zebronic)	01 No.	699.00
7.	Mini Spy Camera Glasses (9Q-FDUV-NG1S)	01 No.	8,500.00
8.	Mini WiFi Full HD Spy Camera with Cloud based storage, Supporting SD card(NW-JRBF-SHUE)	01 No.	1,289.00
9.	Wearable Pocket Camera with Audio video Recording(XZ-SYBD-99CD)	01 No.	5,242.00
Total			28,829.00

  
Signature of  
Principal Investigator

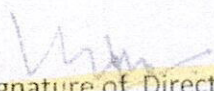
**Name: Dr. K. Ramani**  
Designation: Professor and  
Head

**Dr. K. RAMANI**  
Professo, & Head  
Dept. of Information Technology  
Sree Vidyanikethan Engineering College  
A. RANGAMPET-517 102

  
Signature of Head of the  
Institute

**Name: Dr. B. M. Satish**  
Designation: Principal

**PRINCIPAL**  
SREE VIDYANIKETHAN ENGINEERING COLLEGE  
(AUTONOMOUS)  
Sree Sainath Nagar, A. RANGAMPET  
Chittoor (Dist.) - 517 102, A.P., INDIA.

  
Signature of Director Finance  
and Administration

**Name: Mr. B. Ravi Sekhar**  
Designation: Director and  
Administration

**DIRECTOR**  
(FINANCE & ADMINISTRATION)  
SREE VIDYANIKETHAN EDUCATIONAL TRUST  
Sree Sainath Nagar, A. RANGAMPET-517 102  
Chittoor (Dist), A.P.

9

**SREE VIDYANIKETHAN EDUCATIONAL TRUST**

Sree Sainath Nagar, A.Rangampet, Tirupati

Dt: 24.12.2020

To

**The Branch Manager,  
Union Bank of India,  
Sree Vidyanikethan Branch  
A.Rangampet**

Sir,

Kindly make the following RTGS / NEFT/TRANSFER - Reg.

SINo.	In Favour of	Amount Rs.
01.	Air Designing Solutions ✓ The Karuru Vysya Bank Avadi Chennai  <b>A/c No. 1719135000002737</b> <b>IFSC code no. KVBL0001719</b>  (paid towards advance for supply and installation of first floor HVAC works and 1 <sup>st</sup> to 6 <sup>th</sup> floor toilet ventilators works in V block Rs.4,00,000-TDS Rs.6000)	UBINB 20359007036  3,94,000 ✓
02.	The Pinewood Studio ✓ Kotak Mahindra Bank Hyderabad  <b>A/c No. 4611940595</b> <b>IFSC code no. KKBK0007469</b>  (paid towards landscape design fee total Rs.5,90,000-TDS Rs.37,500)	7965  5,52,500 ✓
03.	Dynamic Object Recognition ✓ Andhra Bank Sree Vidyanikethan Branch A.Rangampet  <b>A/c No. 154010100123186</b> ✓  (paid towards implementation of Internal funded project-A Dynamic object recognition system for visually impaired under seed money scheme-Dept. of IT, SVEC)	1,50,000 ✓

Sree Vidyanikethan Educational Trust  
Sree Sainath Nagar

SlNo.	In Favour of	Amount Rs.
04.	Mr. Vikram Kakunan Head-Automation, SVET Andhra Bank  <b>A/c No. 237910100012109</b>  (paid towards pending salary for the month of October 2020)	27,623
05.	Dr. R.R. Shanmugam Associate Professor, SVCP203 Andhra Bank Sree Vidyanikethan Branch A.Rangampet  <b>A/c No. 154010100061938</b>  (paid towards pending salary for the months of July Rs.15,870/-, August Rs.52,833/- & September Rs.52,833/-)	1,21,536
06.	D.Muralikrishnan Union Bank of India Guindy-SSI Branch Chennai  <b>Ac No. : 526302010008685</b> <b>IFSC code: UBIN0552631</b>  (paid towards advance for route permit for Veh no. AP 03 TD 3332, AP 03 TD 3335, AP 03 TD 3336 AND AP 03 X 7755)	22,000
07.	Challa Bhadri Andhra Bank Pakala  <b>Ac No. : 102010100075551</b> <b>IFSC code: ANDB0001020</b>  (paid towards advance for V block earth excavation for lay the telephone and power cable for street lights and communications)-UM total Rs.30,000-TDS Rs.225	29,775
<b>Total:</b>		<b>12,97,434</b>

8278

Please treat it is as very urgent and do the needful to us. Your self Chq No. 008918 dt. 24.12.2020.

Thanking You,  
Yours faithfully,

(B. RAVI SEKHAR)  
Director (Finance & Administration)



Verified  
[Signature]

To

**The Principal,**  
Sree Vidyanikethan Engineering College,  
Sree Sainath Nagar,  
Tirupati.

Sir,

Sub: Sree Vidyanikethan Engineering College - Financial Assistance  
under Seed Grant - Accord of Approval for the year 2021-22 - Reg.

Ref : Your Note NO. Nil, Dt.23.12.2021.

\* \* \*

This is to inform you that approval has been accorded to release an amount of **Rs. 5,00,000/- (Rupees Five Lakhs Only)** towards **Financial Assistance under Seed Grants to Faculty of Sree Vidyanikethan Engineering College for the year 2021-22** to initiate Research activities as recommended by the Committee Constituted for selection of projects under the scheme. The details are as follows:-

S.No.	Faculty Name & Department	Titles of the proposal	Seed money Requested Rs.	Seed Money Granted/Approval Rs.
01.	Dr. S.Prabhu and Dr.B.Hemanth Kumar EEE	Design, Analysis, Implementation and Testing of Novel High Power Density Switched Reluctance Hub Motor for Electric Vehicles	1,56,000	1,50,000
02.	Dr. A.Chithambar Ganesh, CE	Development of sustainable paver Block using Hazardous Waste	2,00,000	1,80,000
03.	Dr. Hariparsad Tarigonda, ME	Experimental studies on Thermal Energy Storage System using composite phase change materials	60,000	60,000
04.	Ms. M.Bharathi and Dr. N.Padmaja, ECE	Design and Implementation of New Architecture of MAC Core for Real time Digital Signal processing Applications	1,50,000	1,00,000
<b>Total:</b>				<b>5,00,000</b>

The Faculty members who have been granted and received seed money have to initiate their research activity immediately and present the progress of their project to the committee on a quarterly basis.

Further we also inform you that the sanctioned amount will be deposited into the respective account of the Faculties opened for the purpose and the Faculty may be advised to complete the project within 12 months from the receipt of grant amount.

Thanking You,

Yours faithfully,



**(B. RAVI SEKHAR)**  
Director (Finance & Administration)

23-12-2021

### Note Submitted to Director (F&A)

Sub : Release of seed Grant to faculty for the year 2020-21 - Reg.

With a view to provide support to initiate Research activities which has the potential of scaling-up for preparing project proposals for from funding agencies, Proposals are invited from SVEC faculty and 6 following proposals are received from 3 departments requesting for sanctioning of seed money grant.

The applicants presented their proposals before a committee consisting Advisor Cum Director, Director (A&R), Principal, Vice-Principal. The committee also had detailed discussions on the outcome of the proposed research activity and chances of applying to various funding agencies for getting funds for taking the research activity forward or submitting of papers in peer reviewed journals. The committee opined that the seed money grant may be provided for initiating their research activity as per the details given here under.

S.No.	Faculty Name & Department	Title of the Proposal	Seed Money Requested	Seed Money Granted / Approved
1.	Dr. S. Prabhu and Dr. B. Hemnath Kumar EEE	Design, Analysis, Implementation and Testing of Novel High power Density Switched Reluctance Hub Motor for Electric Vehicles	Rs.1,66,000/-	Rs.1,60,000/-
2.	Dr. B. Sachuthasanathan ME	Conversion of old two wheelers to low cost electric vehicle and establishing SVEC vehicle power train research & Skill development centre	Rs.1,50,000/-	Nil (deferred)
3.	Dr. A. Chithambar Ganesh CE	Development of sustainable Paver Block using Hazardous Waste	Rs.2,00,000/-	Rs.1,80,000/-
4.	Dr. Hariprasad Tarigonda ME	Experimental studies on Thermal Energy Storage System using composite phase change materials	Rs.60,000/-	Rs.60,000/-
5.	Ms. M. Bharathi and Dr. N. Padmaja ECE	Design and Implementation of New Architecture of MAC Core for Real time Digital Signal processing Applications	Rs.1,50,000/-	Rs.1,00,000/-
6.	Dr. A Ghana Sagaya Raj ME	Simulation of Cold Flow and Combustion studies in a DI Diesel Engine - A CFD Study using Converge	Rs.1,50,000/-	Work station available in CSE Department with Dr. Ananth Natarajan may be used for his work.
			<b>Total</b>	<b>Rs.5,00,000/-</b>

1. The faculty members who have been granted and received seed money have to initiate their research immediately.

SREE VIDYANIKETHAN EDUCATIONAL TRUST  
Sree Sainath Nagar  
A. RANGAMPET-517 102

They have to present the progress of their project in front of a committee on a quarterly basis. The project should be completed with in 12 months from the receipt of the amount.

27 DEC 2021  
(Dr. T. Nageswara Prasad)  
Vice Principal, SVEC  
RECEIVED  
No:.....

(DR. B.M. Satish)  
Principal, SVEC

(Dr. P. Giridhara Reddy)  
Director (A&R)

(Dr. L. Venugopal Reddy)  
Advisor Cum Director, SVET

M. Balaji  
Dr. Venugopal Reddy  
12/12/21



**SANCTION ORDER**

To,  
**Dr. S. Prabhu, Dr. B. Hemanth Kumar,**  
Department of EEE

Date: 31.12.2021

Sir/Madam,

**Sub:** Sanction of Seed Grant for carrying out Research activities – Reg.

We are glad to inform you that your proposal titled "**Design, Analysis Implementation and testing of novel high power**" for providing **Financial Assistance under Seed Grants** has been accepted for the **year 2020-21** by the Committee constituted for selection of projects and approval has been accorded to release an amount of **Rs. 1.6 lakhs** to initiate the research activities.

The Principal Investigator has to present the progress of their project in front of a committee on a quarterly basis. The project should be completed within the prescribed duration and the Expenditure statements and Utilization Certificates have to be submitted during the end of financial year.



**PRINCIPAL  
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SREE VIDYANIKETHAN ENGINEERING COLLEGE  
(AUTONOMOUS)  
Sree Sainath Nagar, A. RANGAMPET  
Chittoor (Dist.) - 517 102, A.P., INDIA.**

**SANCTION ORDER**

To,  
**Dr. A. Chithambar Ganesh,**  
Department of Civil Engineering

Date: 31.12.2021

Sir/Madam,

**Sub:** Sanction of Seed Grant for carrying out Research activities – Reg.

We are glad to inform you that your proposal titled "**Development of sustainable paver block using hazardous waste**" for providing **Financial Assistance under Seed Grants** has been accepted for the year **2020-2021** by the Committee constituted for selection of projects and approval has been accorded to release an amount of **Rs. - 1.8 lakhs** to initiate the research activities.

The Principal Investigator has to present the progress of their project in front of a committee on a quarterly basis. The project should be completed within the prescribed duration and the Expenditure statements and Utilization Certificates have to be submitted during the end of financial year.



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Chittoor (Dist.) - 517 102, A.P., INDIA.

**SANCTION ORDER**

To,  
**Dr. T. Hari Prasad,**  
Department of Mechanical Engineering


Date: 31.12.2021

Sir/Madam,

**Sub:** Sanction of Seed Grant for carrying out Research activities – Reg.

We are glad to inform you that your proposal titled "**Experimental studies on thermal energy storage system using composite phase change materials.**" for providing **Financial Assistance under Seed Grants** has been accepted for the **year 2020-2021** by the Committee constituted for selection of projects and approval has been accorded to release an amount of **Rs. 0.6 lakhs** to initiate the research activities.

The Principal Investigator has to present the progress of their project in front of a committee on a quarterly basis. The project should be completed within the prescribed duration and the Expenditure statements and Utilization Certificates have to be submitted during the end of financial year.



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Tirupati (Dist.) - 517 102, A.P., INDIA.

**SANCTION ORDER**

To,

Date: 31.12.2021

**Ms. M. Bharathi & Dr. N. Padmaja**

Department of ECE

Sir/Madam,

**Sub:** Sanction of Seed Grant for carrying out Research activities – Reg.

We are glad to inform you that your proposal **titled "Design and implementation of new architecture of MAC core for real time digital signal processing applications"** for providing **Financial Assistance under Seed Grants** has been accepted for the year **2020-2021** by the Committee constituted for selection of projects and approval has been accorded to release an amount of **Rs. 1 lakh** to initiate the research activities.

The Principal Investigator has to present the progress of their project in front of a committee on a quarterly basis. The project should be completed within the prescribed duration and the Expenditure statements and Utilization Certificates have to be submitted during the end of financial year.



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(AUTONOMOUS)  
Sree Sainath Nagar, A. RANGAMPET  
Tirupati (Dist.) - 517 102, A.P., INDIA.

- 📍 Sree Sainath Nagar, Tirupati,  
Andhra Pradesh - 517 102.
- 📞 +91-877-2504888  
+91 9160999977
- 🌐 [www.vidyanikethan.edu](http://www.vidyanikethan.edu)

12-01-2022

## **CERTIFICATE**

This is to certify that a sum of **Rs.5,00,000/-** (*Five Lakhs Only*) has been allotted to the faculty on 31<sup>st</sup> December 2021 towards seed money for initiating research activities. As the financial year 2020-21 ends by 31.03.2021 this amount couldn't be reflected in the audited financial statements. However, this amount will be shown in the final accounts (Audited) for the year 2021-22. This is for your kind information and consideration.



**PRINCIPAL**

**PRINCIPAL**

**SREE VIDYANIKETHAN ENGINEERING COLLEGE  
(AUTONOMOUS)**

**Sree Sainath Nagar, A. RANGAMPET  
Chittoor (Dist.) - 517 102, A.P., INDIA.**




**Director (F&A)**

**DIRECTOR**

**(FINANCE & ADMINISTRATION)**

**SREE VIDYANIKETHAN EDUCATIONAL TRUST**

**Sree Sainath Nagar, A. RANGAMPET-517 102  
Chittoor (Dist), A.P.**



**Chartered Accountant**

**M. RAJAGOPAL NAIDU, M.NO. 024819**

**B.Sc., M.A., M.Com., F.C.A., D.I.S.A.,**

**CHARTERED ACCOUNTANT**

**10/80, Royal Nagar, TIRUPATI**

**2019-20**

2995  
DFA

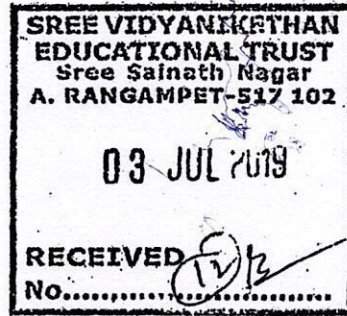
312

ECE

29.06.2019

20

To  
The Director (F & A)  
Sree Vidyanikethan Educational Trust  
Sree Sainath Nagar  
Tirupati.



Sir,

**Sub: Financial Sanction for Internal Projects**

Kindly refer our discussions on the above at different occasions.

On the basis of the proposals submitted and subsequent presentations by the investigators, a committee consisting of Research Advisor, Director (Q&D) and Director have selected the following projects for funding by our Institute (List attached).

Kindly issue financial sanction order for these projects at the earliest.

With Regards,

Yours sincerely

*Signature of Dr. Lazar Mathew*  
29.06.19

(Dr. LAZAR MATHEW)

*Handwritten signature and date*  
6-7-2019

*Submitted to Hon'ble  
Chairman Sir for Approval*

*Handwritten initials and date*  
3/7

*Handwritten notes:*  
He pay after  
opening their  
bank account  
15/7

# SREE VIDYANIKETHAN EDUCATIONAL TRUST

SREE SAINATH NAGAR - TIRUPATI - 517 102

21

No.SVET/DST SEED/SVEC/Bank A/cs/0049/2019

Date: 16.02.2019

**The Principal,**  
Sree Vidyanikethan Engineering College,  
Sree Sainath Nagar,  
Tirupati - 517 102.

Sir,

Sub: SVEC - SEED Money for Internal Funded Projects - Required to open  
Joint Bank Accounts by the Faculty - Information - Reg.

Ref: 1. This office letter No.SVET/Approval/SEED DST Funds/SVEC/0237/2018,  
Dated 29.11.2018.

2. This office letter No.SVET/Approval/DST Funds/SVEC-CSE/0275/2018,  
Dated 19.12.2018.

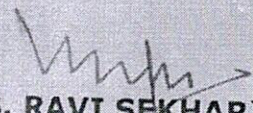
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As you are aware that the Management, Sree Vidyanikethan Educational Trust sanctioned **Budget under SEED Money Scheme** to certain Faculty members of Sree Vidyanikethan Engineering College for execution of Internal Funded Projects.

In this connection, you are requested to advise the concerned Faculty members to open a separate **Joint Bank Accounts** in the name of the **Principal and Principal Investigator of the Project** for transfer of the sanctioned Funds.

Thank you,

Yours faithfully,

  
**(B. RAVI SEKHAR)**

Director

Finance & Administration

Copy to: The Research Advisor, SVEIs.

: The Director, SVEC.

: The COO, SVEC.

: The CAO, SVET.

: The SAO, SVEC.

: The Head Cashier, SVEC.

: The File.



SREE VIDYANIKETHAN ENGINEERING COLLEGE  
SREE SAINATH NAGAR, A. RANGAMPET  
CHANDRAGIRI MANDAL CHITTOOR DISTRICT, A.P.

**BALANCE SHEET AS ON 31.03.2020**

LIABILITIES	Amount Rs.	Amount Rs.	ASSETS	Amount Rs.	Amount Rs.
Capital Fund of SVET (O.B)	68,03,01,010		<b>FIXED ASSETS:</b>		
Add: Excess of Income over expenditure	2,52,08,027	70,55,09,037	I. Land		13,98,547
Loss on Sale of Vehicle	-		II. Buildings		
Endowment Fund		8,50,000	Gross Block (Sch. III)	50,01,59,155	
<u>Loans &amp; Advances:</u>			Less: Depreciation	29,10,32,656	
I. Secured Loans:			Add: Building under constr. (W.I.P)	70,57,92,099	91,49,18,598
Adhra Bank Term Loan - V	-		III. Plant/Machinery		
Adhra Bank New Term Loan	76,58,36,175		Gross Block (Sch. III)	61,66,61,530	
Andhra Bank Vehicles Loan	14,00,235		Less: Depreciation	41,59,47,055	20,07,14,476
HDB Financial Services	-		IV. Equipments-MODROBS:(AICTE)		
ICICI Bank - Vehicle loan & Equipment Loan	57,98,386	77,30,34,796	Computers/Accessories and other Equipts - IT	45,01,757	
<u>Other Liabilities:</u>			Lab Equipments-ME	96,470	
Amounts payable	3,18,52,557		Lab Equipments-CSSE	1,79,843	
Provision for Gratuity	7,09,87,521		Machinery/Equipment-EEE	26,77,278	
Professional Tax payable	1,150		Lab Equipments, Computers etc. - ECE	34,85,025	
Undisbursed salaries	1,69,07,670		Computers & other Equipts - GEBH	8,69,106	
Caution Deposit	1,56,44,451		Machinery/Equipment-EIE	26,32,832	
Sundry Creditors (Sche.-I)	3,40,56,400		Lab Equipments - CE	7,83,799	
Security deposit from Staff	3,00,546		Computers & Accessories - MCA	3,49,113	1,55,65,229
Students Security Deposit	37,68,820		<u>OTHER ASSETS:</u>		
Excess fee (Refundable to Students)	1,68,17,452	19,03,36,567	I. Advances/Deposits :-		
			Advances (Sch. II B & C)	8,32,41,085	
			SEED Money Advances[Research & Development] (Sch.II A)	10,60,000	
			Deposits (Sch-III)	6,13,13,565	14,56,14,750
			Amounts Receivable		37,12,88,243
			Pre-Paid Insurance & Expenses		41,76,729
			Pre-Paid Affiliation fee		21,34,600
			II. Cash & Bank Balances :-		
			Bank Balances (Schedule-IV)	1,38,04,636	
			Cash - Exam. Cell	14,591	1,38,19,227
<b>Total</b>		<b>1,66,97,30,401</b>	<b>Total</b>		<b>1,66,97,30,401</b>

*P. Chalapathi*  
**PRINCIPAL**  
**PRINCIPAL**  
SREE VIDYANIKETHAN ENGINEERING COLLEGE  
(AUTONOMOUS)  
Sree Sainath Nagar, A. RANGAMPET  
Chittoor (Dist.) - 517 102, A.P., INDIA.

*[Signature]*  
**DIRECTOR-FINANCE & ADMINISTRATION**  
**DIRECTOR**  
(FINANCE & ADMINISTRATION)  
SREE VIDYANIKETHAN EDUCATIONAL TRUST  
Sree Sainath Nagar, A. RANGAMPET-517 102  
Chittoor (Dist), A.P.

*[Signature]*  
**AUDITOR**

MR. RAJAGOPAL N. SUDU, M.NO. 024511  
B.Sc., M.A., M.Com., F.C.A., D.I.S.A.,  
CHARTERED ACCOUNTANT  
10/80, Royal Nagar, TIRUPATI  
*Attested*  
**PRINCIPAL**  
SREE VIDYANIKETHAN ENGINEERING COLLEGE  
(AUTONOMOUS)  
Sree Sainath Nagar, A. RANGAMPET  
Chittoor (Dist.) - 517 102, A.P., INDIA.

SREE VIDYANIKETHAN ENGINEERING COLLEGE

SREE SAINATH NAGAR, A.RANGAMPET  
CHANDRAGIRI MANDAL, CHITTOOR DISTRICT, A.P.

Schedule II - Advances

S.No.	PARTICULARS	Amount Rs.
A	SEED Money Advances[Research & Development] (Sch.II A)	
1	Dr.Argha Sarkar,Dept of ECE-Adv	1,75,000
2	Dr.B.Sachuthananthan,Dept of Mech-Adv	1,00,000
3	Dr.E Parimalasundar,Dept of EEE-Adv	50,000
4	Dr.K.G.Suma,Dept of CSE- Adv	50,000
5	Dr.M.Baburaj & Dr S.Raghu Nathan,Dept of Mech- Adv	1,60,000
6	Dr.N.Manikandan & J.S.Binoj,Dept of Mech-Adv	1,00,000
7	Dr.R.Vinoth,Dept of Mech- Adv	1,75,000
8	Ms.K.Neelima,Dept of ECE- Adv	1,50,000
9	Dadamiah PMD Shaik-Asst Prof-GEBH-Adv	1,00,000
	Total (A)	10,60,000

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Sree Sainath Nagar, A. RANGAMPET  
Chittoor (Dist.) - 517 102, A.P., INDIA.

DIRECTOR-FINANCE & ADMINISTRATION

DIRECTOR  
(FINANCE & ADMINISTRATION)  
SREE VIDYANIKETHAN EDUCATIONAL TRUST  
Sree Sainath Nagar, A. RANGAMPET-517 102  
Chittoor (Dist), A.P.

AUDITOR

M. RAJAGOPAL NAIDU, M.NO. 024819  
B.Sc., M.A., M.Com., F.C.A., D.I.S.A.,  
CHARTERED ACCOUNTANT  
10/80, Royal Nagar, TIRUPATI

**SANCTION ORDER**

To,

Date: 11.07.2019

**Dr E Parimalasundar, Dr D Suresh Babu,**  
Department of EEE

Sir/Madam,

**Sub:** Sanction of Seed Grant for carrying out Research activities – Reg.

We are glad to inform you that your proposal titled "**Real time monitoring and fault identification in multilevel inverter fed induction motor drive**" for providing **Financial Assistance under Seed Grants** has been accepted for the **year 2019-2020** by the Committee constituted for selection of projects and approval has been accorded to release an amount of **Rs. 0.50 lakh** to initiate the research activities.

The Principal Investigator has to present the progress of their project in front of a committee on a quarterly basis. The project should be completed within the prescribed duration and the Expenditure statements and Utilization Certificates have to be submitted during the end of financial year.



*P. C. K. Murthy*  
**PRINCIPAL**

**PRINCIPAL**  
**SREE VIDYANIKETHAN ENGINEERING COLLEGE**  
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Sree Sainath Nagar, A. RANGAMPET  
Chittoor (Dist.) - 517 102, A.P., INDIA.

- 📍 Sree Sainath Nagar, Tirupati,  
Andhra Pradesh - 517 102.
- ☎ +91-877-2504888  
+91 9160999977
- 🌐 [www.vidyanikethan.edu](http://www.vidyanikethan.edu)



## **Internally Funded (Seed Money) Project - Details**

Project Title : Real time monitoring and fault identification in multilevel inverter fed induction motor drive

Department : EEE

Name of the PI : Dr. E. Parimalasundar

Name of the Co-PI (if any) : Dr. Suresh Babu Daram

Affiliation of PI & Co-PI : Sree Vidyanikethan Engineering College (Autonomous), EEE Department

Year of Funding (Financial year) : 2019-2020 (01-07-2019)

Project Duration : 2 Years

Amount Sanctioned (in Rs.) : Rs. 50,000

Abstract/Brief Summary of the project :

Cascaded H-Bridge multilevel inverters are mostly preferred for adjustable speed electric drives used in industries and hybrid electric vehicles because of their advantages such as low harmonics, flexibility to use a set of batteries or fuel cells or any renewable energy sources in any intermediate stage of inverter and ability to reach desired high voltages. Since multilevel inverters are used in high power and expensive industrial applications, considering the investment cost and safety aspects, it is necessary to develop an accurate fault diagnostic system for carrying out preventive maintenance works. The most common faults occurring in the case of multilevel inverter drive systems are open-circuit or short-circuit in inverter power electronic switches

such as Insulated Gate Bipolar Transistor (IGBT) and Metal Oxide Semiconductor Field Effect Transistor (MOSFET). These open-circuit or short-circuit faults of power electronic switches lead to the system shutdown and high repairing cost. Hence once a fault in the switch occurs, it should be detected at the earliest in order to avoid the operation of drive and motor under abnormal conditions, which may lead to the failure of motor or drive and to major economic losses.

Fault diagnosis of multilevel inverter is a hot research topic and has created lot of interest among many researchers in the development of better fault diagnostic techniques and protection systems. Several techniques have been proposed to identify the faulty switches of inverters based on current measurement and analysis. Since the output current of inverter is dependent on nature of load, accurate fault detection is difficult under low current values. Many researchers developed the fault diagnostic system from the inverter output voltage measurement, because it is independent of load variations. However, only little information is available on the development of real time high performance fault diagnostic system of cascaded H-bridge multilevel inverter.

Inverters are given high priority in many large industrial drive applications. However, the reliability of multilevel inverters is mainly affected by the failure of power electronic switches. In this project, open-switch and short-switch failure of multilevel inverters and its identification using a high performance diagnostic system. In the proposed fault diagnostic system, It is possible to precisely identify the individual faulty switch (may be due to open-switch (or) short switch failure) of inverters which is useful for reliability of system. The main intend of this project is to recognize faulty switch of Five level cascaded H - Bridge Multilevel Inverter within a fraction of millisecond through hardware implementation along with advanced diagnostic techniques. For designing a proper multilevel inverter, it requires many number of

power electronic switches. If any fault occurs in that system, it is difficult to discover faulty power electronic switch.

By implementing these diagnostic techniques, it may give following advantages:

- Switching Losses are minimized.
- High power quality and output waveforms are obtained from inverter.
- Harmonic distortions and ripples are minimized by finding faulty switch.
- The quality of output voltage signal has to be improved from multilevel inverter and reliability of overall drive system is maintained.

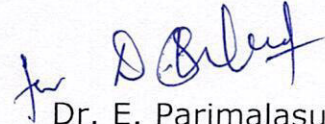
Work done till date :

- In the absence of faults, Matlab/simulink is used to simulate the testing of a five-level cascaded multilevel inverter.
- During simulation analysis, faulty output voltage output patterns are inspected for open and short circuits.
- A simulation analysis is used to provide a quote for hardware components.
- Components are bought in order to put the prototype model into action.

Expected Outcomes :

- The faulty power electronic switch has to be identified and changed effectively which is supportive for electric power generation and transmission systems.
- In automotive industries, productivity cannot be affected due to the failure of power converter.
- There is a need for improved fault detection and isolation in power electronic converters for maximizing the reliability of renewable energy sources.

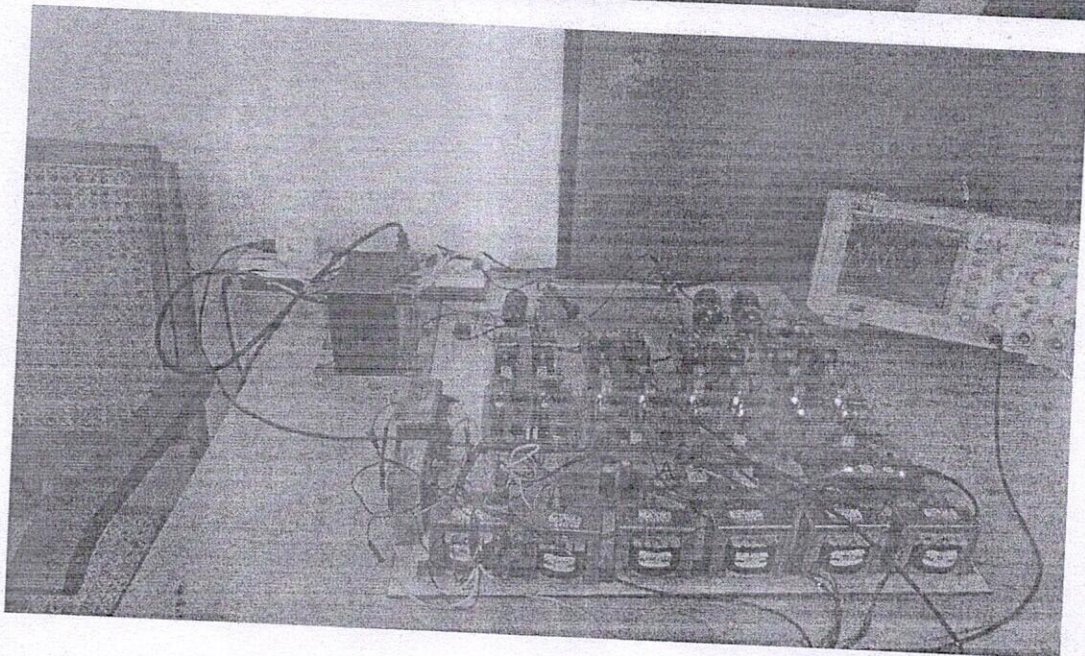
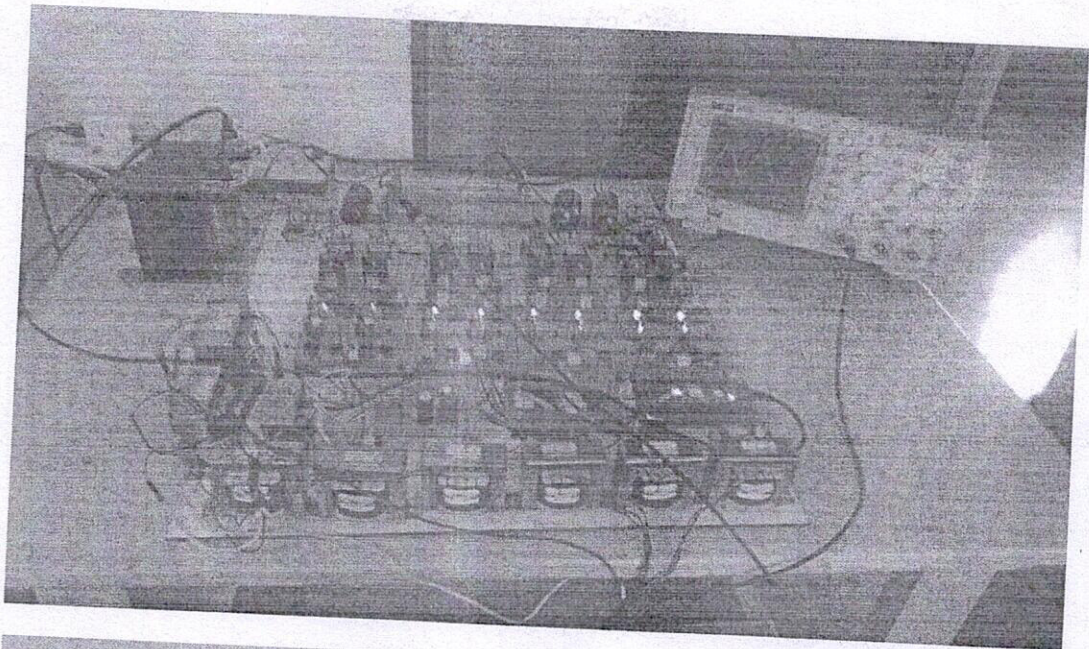
- This system offers a major change in terms of isolating faulty components and reconfiguring the converter in a manner that minimizes power outages.
- The CHB inverter provides a balanced output with low harmonic distortion owing to redundant switching states.
- This proposal will enrich for interfacing of renewable energy resources, industrial motor drives, electric vehicle drives and power grids.



Dr. E. Parimalasundar

(Principal Investigator Name)

**Developed prototype Model:**



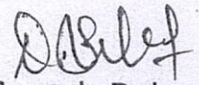


List of Enclosures:

1. Purchase Quotation
2. Purchase Bills



Dr. E. Parimalasundar  
(Principal Investigator)



Dr. Suresh Babu Daram  
(CO - Principal Investigator)

Sree Sainath Nagar, Tirupati


Department of Electrical and Electronics Engineering


<b>Project Title</b>	Real time monitoring and fault identification in multilevel inverter fed induction motor drive
<b>Department</b>	EEE
<b>Name of the PI &amp; CO-PI</b>	Dr. E. Parimalasundar and Dr. Suresh Babu Daram
<b>Affiliation of PI &amp; CO-PI</b>	Associate Professor/EEE, SVEC - Tirupati
<b>Year of funding (Financial Year)</b>	2019-2020 (01-07-2019)
<b>Project Duration</b>	1.5 Years
<b>Amount Sanctioned (in Rs.)</b>	Rs. 50,000

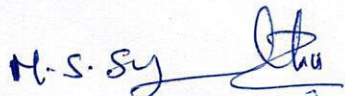
**STATEMENT OF EXPENDITURE FOR THE AMOUNT SANCTIONED BY SVET**

S.No.	Description	Name of the firm	Bill No.	Date	Amount (Rs.)
1.	Development of PCBs for multilevel inverter fault deduction and compensation	RBA Engineering, No. 46, Saidapet, Chennai - 600015	Bill No. 2/2021-22	07-07-2021	25,345
2.	IGBT Switches, VLSI Development Board	RBA Engineering, No. 46, Saidapet, Chennai - 600015	Bill No. 3/2021-22	01-08-2021	21,500
Total Expenses					46,845

Thanking You

  
**Dr. E. Parimalasundar**  
(PI)

  
**Dr. Suresh Babu Daram**  
(CO - PI)

  
**Dr. M. S. Sujatha**  
(HOD - EEE)

# RBA ENGINEERING

No. 46 (OLD NO.43), SESHACHALAM STREET, SAIDAPET,  
CHENNAI - 600 015. TAMIL NADU. ☎ 9551269735  
Email: rbagroup.india@gmail.com Website: www.rbaengineering.com

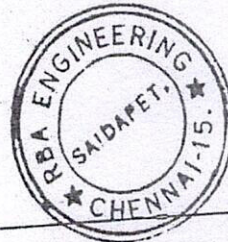
To  
Sree Vidyanikethan Engineering College  
Department of Electrical and Electronics Engineering,  
A.Rangampet,  
Tirupathi-517102,

Area Code: 319  
GST No: 33AFCPG3085L1Z1  
TIN No: 33186222591

**BILL No. 2 / 2021-22**

**Date: 07 - 07 - 2021**

S.No.	Description	Rate	HSN/SAC	Qty	Total Amount
1.	Development of PCBs for multilevel inverter fault deduction and compensation	Rs. 21,479/-	SAC 440125	1 set	Rs. 21,479/-
<b>Total</b>					<b>Rs. 21,479/-</b>
CGST 9 %					Rs. 1,933/-
SGST 9 %					Rs. 1,933/-
<b>Grand Total</b>					<b>Rs. 25,345/-</b>



Rupees Twenty Five Thousand Three Hundred Forty Five Only

**Bank Account Details:**

Name: RBA Engineering  
Bank Name: Union Bank of India  
Branch: Saidapet, Chennai  
Account Number: 054411011001984  
RTGS/IFSC Code: UBIN 080 5441  
Branch code: 0805441

For RBA Engineering

A. Nagoor Kani  
Project Manager

31

SI No	Item & Description	HSN	Qty	Rate	IGST	Amount
13	ATXMEGAA3BU-XPLD- XMEGA-A3BU Xplained Evaluation Kit with Battery Backup & LCD Display Operating Voltage : 5V, Input Voltage: 7-12V Digital I/O Pins : 14 (of which 6 provide PWM output) Digital I/O Pins : 14 (of which 6 provide PWM output)	8471	1	3,131.00	18%	3,131.00
14	Miscellaneous (Panel Design Board, Connecting wires, Soldering Kit, Probes, Capacitors, Resistors, Inductors, etc)		1	3,500.00	18%	3,500.00

Items in Total 74

Thanks for your business.

Acc Name : Raana Power Solutions  
Acc No : 10046174719  
Account type : Current Account  
Bank : Tamil Nadu Grama Bank (INDIAN BANK)  
Acc Branch : Salem  
IFSC Code : IDIB0PLB001

Sub Total	47,328.00
IGST18 (18%)	8,519.04
<b>Total</b>	<b>55,847.04</b>

Total In Words: *Rupees Fifty-Five Thousand Eight Hundred Forty-Seven and Four Paise Only*

Authorized Signature \_\_\_\_\_

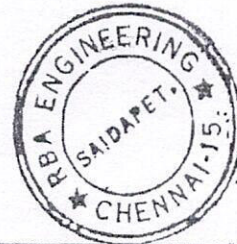
32

# RBA ENGINEERING

No. 46 (OLD NO.43), SESHACHALAM STREET, SAIDAPET,  
CHENNAI - 600 015, TAMIL NADU. ☎ 9551269735  
Email: rbagroup.india@gmail.com Website: www.rbaengineering.com

<b>To</b> <b>Sree Vidyanikethan Engineering College</b> Department of Electrical and Electronics Engineering, A.Rangampet, Tirupathi-517102,	Area Code: 319 GST No: 33AFCPG3085LIZI TIN No: 33186222591
	<b>BILL No. 3 / 2021-22</b> <b>Date: 01 - 08 - 2021</b>

S.No.	Description	Rate	HSN/SAC	Qty	Total Amount
1.	IGBT, CT60AM-18F	Rs. 500/-	HSN 8542	18 Nos	Rs. 9,000/-
2.	VLSI Development Board Digilent: CMOD A7	Rs. 9,220/-	HSN 8542	1 Nos	Rs. 9,220/-
<b>Total</b>					<b>Rs. 18,220/-</b>
CGST 9 %					Rs. 1,640/-
SGST 9 %					Rs. 1,640/-
<b>Grand Total</b>					<b>Rs. 21,500/-</b>



Rupees Twenty One Thousand Five Hundred Only

**Bank Account Details:**

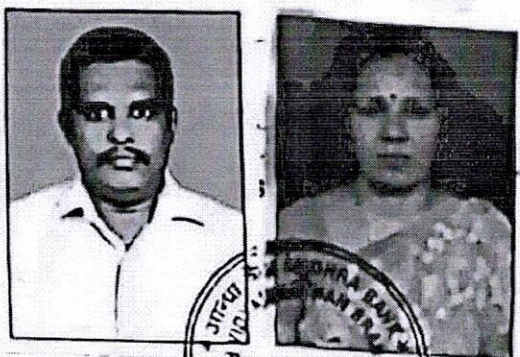
Name: RBA Engineering  
 Bank Name: Union Bank of India  
 Branch: Saidapet, Chennai  
 Account Number: 054411011001984  
 RTGS/IFSC Code: UBIN 080 5441  
 Branch code: 0805441

**For RBA Engineering**

**A. Nagoor Kani**  
**Project Manager**

OUR DEPOSIT SCHEMES AT A GLANCE

SB Account	Age	COVERAGE	Amount of Coverage
SB Diamond Account	05-75 Years	Accidental Death Cover	5,00,000
	18-55 Years	Life Cover	1,00,000
SB Platinum Account	05-75 Years	Accidental Death Cover	10,00,000
	18-55 Years	Life Cover	2,00,000
ASB Account	05-75 Years	Accidental Cover Only	50,000
ASB Plus Account	05-75 Years	Accidental Cover Only	1,00,000
ABG Account	05-75 Years	Accidental Cover Only	1,50,000
ABJ Account	18-55 Years	Accidental and Natural Death Cover	1,00,000
ABJ Plus Account	18-55 Years	Accidental and Natural Death Cover	2,00,000
ABJ Double Plus Account	18-55 Years	Accidental and Natural Death Cover	5,00,000
ABJ Triple Plus Account	18-55 Years	Accidental and Natural Death Cover	10,00,000
AB Kiddy Bank (Kudu Khazana)	0-18 Years	For Child - Accidental Cover	1,50,000
	18-70 Years	For Parent / Guardian Cover	1,50,000
AB Argyatan	3 Months-70 Yrs	Renewable Life long	



Deposit Schemes: RD Account, RD Plus Account, Fixed Deposit, Kalpataru Deposit, AB Tax Saver Deposit, AB Freedom Deposit, AB Double Deposit, AB Money-Time Deposit.

For Further Information and scheme details please contact the nearest branch.

Andhra Bank (a member of the Andhra Pradesh State Financial Corporation) is a facilitator for the Insurance and is in no way liable for any claim. For the name of the Insurer & applicable terms and conditions of Insurance, please approach the Branch or refer Bank's website: [www.andhrabank.in](http://www.andhrabank.in)

For the applicable rates of interest contact the Branch or refer Bank's website: [www.andhrabank.in](http://www.andhrabank.in)

Note: 1. Account holders are requested to maintain sufficient balance in the account for deduction of Insurance premium and also verify whether the premium is deducted or not on due dates. Bank will not be responsible for non-deduction of premium due to paucity of clear funds in the account.  
2. While presented for updation of the Pass Book a New Line appear every time at the end of transactions. Acronyms/Abbreviations used are provided in the last page.

शाखा /Branch  
1540 SRI VIDYA NIKETHAN

ETIRUPATHI  
CHITTOR DIST, ANDHRA PRADESH  
TIRUPATHI  
ANDHRA PRADESH -517102  
खाताधारक का नाम /S REAL TIME MONITORING-MLI  
Name of A/c Holder  
CO SVEC SREE SAI NATH NAGAR  
पता Address RANGAMPET CHANDRAGIRI MD  
CHITTOOR  
फोन नंबर /ANDHRA PRADESH-517102  
Phone No.

आन्ध्रा बैंक  
देशवासियों का बैंक  
**Andhra Bank**  
Where India Banks

Comp. No. 11302  
BrPh : 0877-2247949  
IFSC CODE: ANDB0001540  
MICR CODE: 517011007  
Email: [5400@andhrabank.co.in](mailto:5400@andhrabank.co.in)

पास बुक PASS BOOK

154010100125582  
खाता नंबर  
A/C Name Code: S00GP  
CUST. ID : 59323127



दिनांक /Date: 29-07-2019  
नामांकन पंजीकृत : हा /नहीं / Nomination Registered : Yes / No  
अधिकतम सुरक्षा रकम / Maximum Security Limit: 500,000/-  
मुख्यालय / Head Office: Saifabad, Hyderabad - 500 004.

Manager's Signature

34

दिनांक Date	विवरण Particulars	चेक क्र. Cheque No.	आहरित राशि Amount Withdrawn	जमा की गई राशि Amount Deposited	खाता शेष Balance	संक्षिप्त हस्ताक्षर Initial
Account No: 1401011012558						
08/08/2019	TR FROM 003831043	04380581		50000.00	50000.00Cr	
18/08/2019	Int. Pd: 290719 to 310819			125.00	50125.00Cr	
15/09/2019	CS01 SMS Chrgs/Jul-Sep		18.00		50107.00Cr	
03/12/2019	Int. Pd: 010919 to 301119			416.00	50523.00Cr	
17/12/2019	CS01 SMS Chrgs/Oct-Dec		18.00		50505.00Cr	
06/02/2020	SELF	83086	45000.00		5505.00Cr	
Date: 06-02-2020	Clr Bal: Cr Rs. 5505.00		Avail Amt Cr Rs. 5505.00	Eff Bal: Cr Rs. 5505.00		
05-03-2020	Int. Pd: 011219 to 290220			313.00	5818.00Cr	
26-03-2020	CS01 SMS Chrgs/Jan-Mar 2020	918778036	2.36		5815.64Cr	
12-04-2020	Int. Pd: 010320 to 310320			16.00	5831.64Cr	
27-06-2020	CS01 SMS Chrgs/Apr-Jun 2020	918778036	17.70		5813.94Cr	
07-07-2020	Int. Pd: 010420 to 300620			43.00	5856.94Cr	
20-09-2020	CS01 SMS Chrgs/Jul-Sep 2020	918778036	17.70		5839.24Cr	
04-10-2020	Int. Pd: 010720 to 300920			44.00	5883.24Cr	
20-12-2020	CS01 SMS Chrgs/Oct-Dec 2020	918778036	17.70		5865.54Cr	
04-01-2021	Int. Pd: 011020 to 311220			44.00	5909.54Cr	
23-01-2021	A/C MIGRATED TO UBI:154010100125582		5909.54		0.00	
23-01-2021	BALANCE TRANSFER	00000		5909.54	5909.54Cr	

**SANCTION ORDER**

To,  
**Dr Dadamiah PMD Shaik,**  
Department of BS & H


Date: 11.07.2019

Sir/Madam,

**Sub:** Sanction of Seed Grant for carrying out Research activities – Reg.

We are glad to inform you that your proposal titled **“Investigations on electrochemical performance of graphene/Mn304 nanofilms for super capacitors”** for providing **Financial Assistance under Seed Grants** has been accepted for the **year 2019-2020** by the Committee constituted for selection of projects and approval has been accorded to release an amount of **Rs. 1 lakh** to initiate the research activities.

The Principal Investigator has to present the progress of their project in front of a committee on a quarterly basis. The project should be completed within the prescribed duration and the Expenditure statements and Utilization Certificates have to be submitted during the end of financial year.

  
**PRINCIPAL**  
**PRINCIPAL**  
**SREE VIDYANIKETHAN ENGINEERING COLLEGE**  
**(AUTONOMOUS)**  
Sree Sainath Nagar, A. RANGAMPET  
Chittoor (Dist.) - 517 102, A.P., INDIA.



- ★ Sree Sainath Nagar, Tirupati,  
Andhra Pradesh - 517 102.
- 📞 +91-877-2504888  
+91 9160999977
- 🌐 [www.vidyanikethan.edu](http://www.vidyanikethan.edu)



## Internally Funded (Seed Money) Project - Details

Project Title : Investigations on Electrochemical Performance of Graphene/Mn<sub>3</sub>O<sub>4</sub> nano films for supercapacitors.

Department : BS & H

Name of the PI : Dr. Dadamiah PMD Shaik

Name of the Co-PI (if any) : Dr M. V. Sasi Kumar

Affiliation of PI & Co-PI : Assistant professor (SL)

Year of Funding (Financial year) : 2019

Project Duration : 18 month

Amount Sanctioned (in Rs.) : Rs 1,00,000/-

Abstract/Brief Summary of the project :

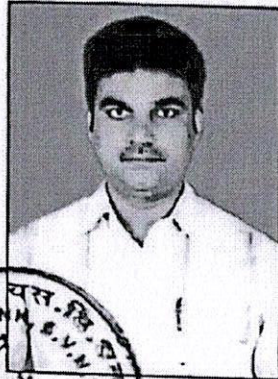
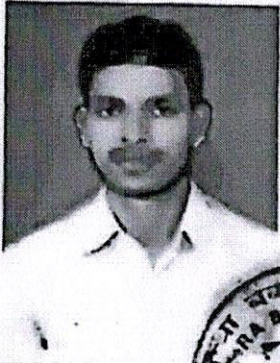
Investigations on Electrochemical Performance of Graphene/Mn<sub>3</sub>O<sub>4</sub> nano films for supercapacitors

Work Done till date :

The PI Dr. Dadamiah PMD Shaik is on long leave (LOP) and due to covid, the project is in slow pace.

M. V. Sasi Kumar

Dr M. V. Sasi Kumar  
(Co-Principal Investigator)



OUR DEPOSIT SCHEMES AT A GLANCE

SB Account	Age	COVERAGE	Amount
SB Diamond Account	05-75 Years 18-55 Years	Accidental Death Cover Life Cover	
SB Platinum Account	05-75 Years 18-55 Years	Accidental Death Cover Life Cover	
ASB Account	05-75 Years	Accidental Cover Only	
ASB Plus Account	05-75 Years	Accidental Cover Only	
ABG Account	05-75 Years	Accidental Cover Only	
ABJ Account	18-55 Years	Accidental and Natural Death Cover	
ABJ Plus Account	18-55 Years	Accidental and Natural Death Cover	
ABJ Double Plus Account	18-55 Years	Accidental and Natural Death Cover	
ABJ Triple Plus Account	18-55 Years	Accidental and Natural Death Cover	
AB Kiddy Bank (Kids Khazana)	0-18 Years 18-70 Years	For Child - Accidental Cover For Parent / Guardian Cover	
AB Arogyadan	3 Months-70 Yrs	Renewable life long	

Deposit Schemes RD Account, RD Plus Account Fixed Deposit, Kalpataru Depositi, AB Tax Saver Deposit, AB Freedom Plus Account, AB Double Deposit, AB Money-Time Deposit

- ★ Andhra Bank is merely a mobilizer / facilitator for the Insurance and is no way liable for any claim. For the name of the Insurer & applicable terms and conditions of Insurance, customer may approach the Branch or refer Bank's website [www.andhrabank.in](http://www.andhrabank.in)
- ★ For the applicable rates of Interest contact the Branch or refer Bank's website [www.andhrabank.in](http://www.andhrabank.in)

Note: 1. Account holders are advised to verify the account for deduction of Insurance premium and also verify whether the premium is deducted or not on due date. Bank will not be responsible for any loss of funds in the account.  
2. While processing for updation of account details, errors may appear every time at the end of transactions. Acronyms/Abbreviations used are provided in the last page.

शाखा /Branch  
1540 SRI VIDYA NIKETHAN

ETIRUPATHI  
CHITTOR DIST, ANDHRA PRADESH  
TIRUPATHI  
ANDHRA PRADESH -517102

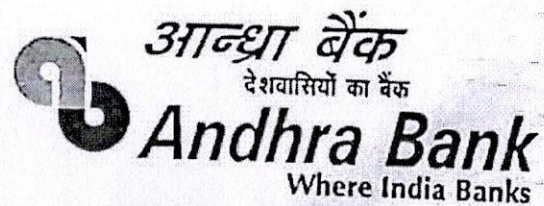
खाताधारक का नाम / Name of A/c Holder  
M/S CENTRE FOR APPLIED SCIENCES

पता Address  
CO SVEC SREE SAI NATH NAGAR  
A RANGAMPET CHANDRAGIRI MD

फोन नंबर / Phone No.  
ANDHRA PRADESH-517102  
919445481096

प्रकार / Mode ALL JOINTLY  
25-07-2019

दिनांक / Date Deposits are insured up to Rs 1,00,000 by [www.insurance.com](http://www.insurance.com), प्रभु कार्यालय, सैफाबाद, हैदराबाद  
नामांकन पंजीकृत : हा / नहीं / Nomination Registered : Yes / No



पास बुक PASS BOOK

Comp. No.  
BrPh : 0877-2247949  
IFSC CODE: ANDB000154  
MICR CODE: 517011007  
bm1540@andhrabank.co.

खाता नंबर / A/c. No & scheme Code: SBOGP  
154010100125421  
CUST.ID : 59294397



प्रभु कार्यालय, सैफाबाद, हैदराबाद  
Head Office, Saifabad, Hyderabad

Scanned with CamScanner

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दिनांक Date	विवरण Particulars	चेक क्र. Cheque No.	आहरित राशि Amount Withdrawn	जमा की गई राशि Amount Deposited	खाता शेष Balance
Account No: 154010100125421					
06/08/2019	TR FROM 003331043805851			100000.00	100000.00
06/09/2019	Int. Pd: 250719 to 310819			249.00	100249.00
18/09/2019	CS01 SMS Chrgs/Jul-Sep		18.00		100231.00
03/12/2019	Int. Pd: 010919 to 301119			787.00	101018.00
17/12/2019	CS01 SMS Chrgs/Oct-Dec		18.00		101000.00
05/03/2020	Int. Pd: 011219 to 290220			792.00	101792.00
26/03/2020	CS01 SMS Chrgs/Jan-Mar		17.70		101774.30
12/04/2020	Int. Pd: 010320 to 310320			280.00	102054.30
22/06/2020	CS01 SMS Chrgs/Apr-Jun		17.70		102036.60
07/07/2020	Int. Pd: 010420 to 300620			761.00	102797.60
20/09/2020	CS01 SMS Chrgs/Jul-Sep		17.70		102779.90
04/10/2020	Int. Pd: 010720 to 300920			775.00	103554.90
(Date:22-10-2020	Clr Bal: Cr Rs.103554.90		Avail AmtCr Rs.103554.90	Eff Bal:Cr Rs.103554.90	

**SANCTION ORDER**

To,

Date: 11.07.2019

**Dr. N. Manikandan, Dr. J.S. Binoj,**  
Department of Mechanical Engineering

Sir/Madam,

**Sub:** Sanction of Seed Grant for carrying out Research activities – Reg.

We are glad to inform you that your proposal titled **“A comparative study on wire electrical discharge machining of aerospace materials”** for providing **Financial Assistance under Seed Grants** has been accepted for the **year 2019-2020** by the Committee constituted for selection of projects and approval has been accorded to release an amount of **Rs. 1 lakh** to initiate the research activities.

The Principal Investigator has to present the progress of their project in front of a committee on a quarterly basis. The project should be completed within the prescribed duration and the Expenditure statements and Utilization Certificates have to be submitted during the end of financial year.

  
**PRINCIPAL**

**PRINCIPAL**  
**SREE VIDYANIKETHAN ENGINEERING COLLEGE**  
**(AUTONOMOUS)**  
Sree Sainath Nagar, A. RANGAMPET  
Chittoor (Dist.) - 517 102, A.P., INDIA.



- 📍 Sree Sainath Nagar, Tirupati,  
Andhra Pradesh - 517 102.
- ☎ +91-877-2504888
- ☎ +91 9160999977
- 🌐 [www.vidyanikethan.edu](http://www.vidyanikethan.edu)



## Internally Funded (Seed Money) Project - Details

Project Title	: A Comparative Study on Wire Electrical Discharge Machining of Aerospace Materials
Department	: Mechanical Engineering
Name of the PI	: Dr. N. MANIKANDAN
Name of the Co-PI (if any)	: Dr. J. S. BINOJ
Affiliation of PI & Co-PI	: Associate Professor, M.E, SVEC.
Year of Funding (Financial year)	: 2019-2020 (Extended due to COVID)
Project Duration	: 12 months
Amount Sanctioned (in Rs.)	: 1,00,000

Abstract/Brief Summary of the project :

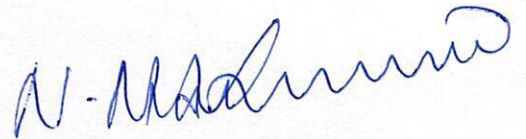
**Superalloys are exceptional category of materials that possess excellent properties for various high temperature applications. Superalloys are also known as high performance alloys and extensively predominant that plays a major role in various manufacturing applications. The properties of strength at high temperature, degradation resistance in oxidation and corrosive environments makes the superalloys for prevalent uses in various engineering applications. Due to the favourable properties of superalloys, it has the ability to perform at high temperature applications such as aerospace components, steam turbine power plants, exhaust valves of turbocharger, equipment for heat treatment and petrochemical industries (Pollack and Tin, 2006). High hardness and hot strength, high strain hardening, high shear strength and low thermal conductivity are the properties which makes the nickel based super alloys hard to machine materials.**

Work Done till date :

- **Material Purchased,**
- **Machining completed,**
- **Conference Presentations and publications done,**
- **Microstructural studies under progress,**
- **Paper writing to peer reviewed jnls in progress and**
- **Report writing under progress**

Expected Outcomes :

During the course of research, a good interaction will be made with R & D laboratories working in this field. Machinability analysis and optimization parameters for the selected hard materials will be performed and identified. The encouraging results will be shared with scientific community through conferences and special lectures. Reasonable number of publications will be done in peer-reviewed journals. The encouraging results and new invention will be patented with the help of DST and pilot level work will be planned with industrial sectors either government or private.



(Dr. N. Manikandan)

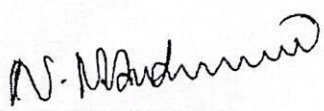
**Dr. N. MANIKANDAN, M.E., Ph.D. (NIT-T)**  
**Associate Professor**  
**Department of Mechanical Engineering**  
**SREE VIDYANIKETHAN ENGINEERING COLLEGE**  
**(Autonomous)**  
Sree Sainath Nagar, TIRUPATI-517 102  
Guntur District, Andhra Pradesh, India

**DEPARTMENT OF MECHANICAL ENGINEERING**

Project Title	A COMPARATIVE STUDY ON WIRE ELECTRICAL DISCHARGE MACHINING OF AEROSPACE MATERIALS
Department	MECHANICAL ENGINEERING
Name of the PI	Dr. N. MANIKANDAN
Affiliation of PI	Associate Professor, Department of Mechanical Engineering, Sree Vidyanikethan Engineering College (Autonomous), Tirupati.
Year of Funding (Financial year)	2019-2020 (01-07-2019)
Project Duration	1 Year
Amount Sanctioned (in Rs.)	Rs. 1,00,000

**STATEMENT OF EXPENDITURE FOR THE AMOUNT SACTIONED BY SVET**

Sl.No	Description	Name of the Firm	Bill No.	Date	Amount (Rs.)
1.	Purchase of materials (Inconel grades 625, 800)	Bhagyashali Metal, Mumbai - 400 004	2371/19-20	23-12-2019	35,164
2	Payment towards conference registration fees (ICAMMM 7 & ICAMMM 45)	Adhi College of Engineering & Technology, Kanchipuram	Transaction ID: 43868361 & 43868328	08-05-2020	10,000
3	Payment towards conference registration fees	Adhi College of Engineering & Technology, Kanchipuram	Invoice No: 574770934 & 574770957	30-04-2021	20,000
<b>Total Expenses</b>					<b>65,164</b>

  
 Dr. N. Manikandan

(Principal Investigator)

Thanking you

  
 Dr. R. Satya Meher

HOD, ME  
 Dr. R. SATYA MEHER  
 Professor & Head  
 Dept. of Mechanical Engineering  
 Sree Vidyanikethan Engineering College  
 TIRUPATI-517 102.

Dr. Manikandan  
MECH  
43

Tel.: 022-6749 6183  
6615 1443  
Mob : 98693 10849  
98695 32437  
98697 45808



# Bhagyashali Metal

Stockist & Supplier of : Stainless Steel, Titanium, Monel, Hastelloy, Inconel, Nickle, Magnashium, Tungsten, Molybdenum, Nicrome, High Nickle Alloys, Copper, Aluminium - Coil, Sheet, Plates, Rod, Pipes, Patta

42/44, Shop No. 7, Matru Aashish Bldg., 5th Kumbharwada (Maruti Mandir Marg), Mumbai - 400 004.  
E-mail : bhagyashalimetal@gmail.com, Web : www.titaniumalloysupplier.com Web : www.bhagyashalimetal.com

## Tax Invoice

(ORIGINAL FOR RECIPIENT)

<b>Bhagyashali Metal</b> 42/44, Shop No-7, Matru Ashish Bldg, 5th Kumbharwada(Matru Mandir Marg) Mumbai-400004 GSTIN/UIN: 27AOMPS2817P1Z4 State Name : Maharashtra, Code : 27	Invoice No.	Dated
	2371/19-20	23-Dec-2019
Consignee <b>The Principal (Andhra Pradesh)</b> Shree Vidyaniketan Engineering Collage(Autonomous), Shri Sainath Nagar, Tirupati, Rangampeta - 517102 State Name : Andhra Pradesh, Code : 37	Delivery Note	Mode/Terms of Payment
		<b>Immediate</b>
Buyer (if other than consignee) <b>The Principal (Andhra Pradesh)</b> Shree Vidyaniketan Engineering Collage(Autonomous), Shri Sainath Nagar, Tirupati, Rangampeta - 517102 State Name : Andhra Pradesh, Code : 37	Supplier's Ref.	Other Reference(s)
	2371/19-20	
	Buyer's Order No.	Dated
	<b>verbal</b>	<b>23-Dec-2019</b>
	Despatch Document No.	Delivery Note Date
	Despatched through	Destination
	<b>Courier</b>	
	Terms of Delivery	

Sl No.	Description of Goods	HSN/SAC	Quantity	Rate	per	Amount
1	Nickel Alloy Plate (7506)	7506	2.750 kg	2,100.00	kg	5,775.00
2	Nickel Alloy Plate (7506)	7506	2.150 kg	1,500.00	kg	3,225.00
3	Stellite (8105)	8105	0.600 kg	33,500.00	kg	20,100.00
						29,100.00
Packing & Forwarding (S) (IGST)						700.00
IGST 18% (S)						5,364.00
Total						<b>35,164.00</b>

Amount Chargeable (in words) E. & O.E

**INR Thirty Five Thousand One Hundred Sixty Four Only**

HSN/SAC	Taxable Value	Integrated Tax		Total Tax Amount
		Rate	Amount	
7506	9,216.50	18%	1,658.97	1,658.97
8105	20,583.50	18%	3,705.03	3,705.03
Total			<b>5,364.00</b>	<b>5,364.00</b>

Tax Amount (in words) : **INR Five Thousand Three Hundred Sixty Four Only**

Company's PAN : <b>AOMPS2817P</b>	Company's Bank Details Bank Name : <b>Bank of Baroda</b> A/c No. : <b>14390200002141</b> Branch & IFS Code : <b>GULALWADI &amp; BARB0GULALW</b>
Declaration We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct.	for Bhagyashali Metal <i>Churibare S. Sargani</i> Authorised Signatory

SUBJECT TO MUMBAI JURISDICTION

This is a Computer Generated Invoice



# ADHI COLLEGE OF ENGINEERING & TECHNOLOGY

Approved by AICTE, New Delhi, Accredited by NAAC, Permanently Affiliated to Anna University, Chennai  
An ISO 9001:2008 Certified Institution, Recognized U/S 12(B) & 2(F) of UGC ACT, 1956  
No:6, Munu Adhi Nagar, Sankarapuram, Near Walajabad, Kanchipuram District. -631605



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materialstoday:  
PROCEEDINGS

Scientific.Net  
Publisher in Materials Science & Engineering

3<sup>rd</sup> INTERNATIONAL CONFERENCE

On

## INTERNATIONAL CONFERENCE ON ADVANCED MATERIALS & MODERN MANUFACTURING (ICAMMM'20)

### REGISTRATION FORM

Full Name (in block letters) : Dr. N. MANIKANDAN

Affiliation : ASSOCIATE PROFESSOR

Address for Communication : DEPARTMENT OF MECHANICAL ENGINEERING  
SREE VIDYANIKETHAN ENGINEERING COLLEGE  
(AUTONOMOUS)  
A.RANGAMPET, TIRUPATI

Pincode : 517102 State: ANDHRA PRADESH

Contact No. : 9688760960 E-mail: thuraiyurmani@gmail.com

Paper ID : ICAMMM 7

Title of the Paper : "Experimental investigations on wire electrical discharge  
machining of Inconel 625 by grey-Taguchi method"

Mode of participation : Presenter

Accommodation Required : No

### Registration Fee Details

Online Payment Transaction No.: ANDBN20246607916 Amount: Rs.5000/-

Bank & Branch : Andhra Bank, SVEC Branch, A.RAngampet Date : 08<sup>TH</sup> MAY 2020

Note: Enclose the online transaction proof.(Proof of Transaction details attached in next page)

Signature



# ADHI COLLEGE OF ENGINEERING & TECHNOLOGY

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45

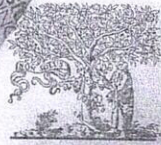
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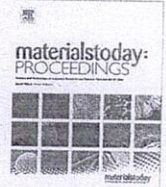
### REGISTRATION FORM

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General Transaction Details:	
Reference ID: 43868361	Transaction Type: Other Bank Fund Transfer
Transaction Reference Name: ANDBN20246607916	Network: NEFT
Reference ID: 44270811	Pay From Account: 154010100095759
Payee Type: Personal Payees	Pay To Account: R.Prabhu
Amount: INR 5,000.00	Remarks: Paper ID ICAMMM 7
Payment Date (dd/MM/yyyy): 08/05/2020	
Transaction Status: Success	
Amount & Frequency Details:	
Total Amount: INR 5,000.00	
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## Application of Taguchi method on Wire Electrical Discharge Machining of Inconel 625

N. Manikandan\*, J.S. Binoj, P. Thejasree, P. Sasikala, P. Anusha

Micro Machining Research Centre, Sree Vidyanikethan Engineering College (Autonomous), Tirupati 517102, Andhra Pradesh, India

## ARTICLE INFO

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Inconel 625

Taguchi's method

S/N Ratio analysis

Optimization

ANOVA

## ABSTRACT

Inconel 625 is one among the hard to machine material and extensively used in high temperature applications. It has better strength and lower thermal coefficient that leads to poor machining by traditional methods of machining. To overcome such kind of disadvantages, unconventional method of machining processes have been developed and proposed to be a suitable substitute method for conventional methods of machining. Wire Electrical Discharge Machining (WEDM) is one of the variant developed from the perception of Electrical Discharge Machining process that is predominantly employed for machining of difficult to machine alloys and also for making complex shaped components. In this analysis, a study has been done on WEDM of nickel based superalloy and primarily focusing on optimizing the process parameters for machining of Inconel 625 by using Taguchi's analysis. The experimental runs are planned by Taguchi's DoE approach. The experiments have been performed by considering the process parameters such as pulse on time, pulse off time and peak current at three various levels. Material removal rate and overcut are the desired performance measures considered in this analysis. Contour plot analysis has been done for disclosing the combine effect of process variables on desired performance measures. Analysis of Variance (ANOVA) has been used to determine the importance of independent variables on the desired dependent variables. From this experimental analysis the influence of individual process parameters on the response parameters have been studied.

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## 1. Introduction

Nickel based super alloys are considered as predominantly used work materials in the manufacturing industries because of to its inherent properties and advantages than titanium-based alloys. Heat resistant and retaining the desired properties at high temperatures, high resistance to corrosion and high melting temperature are some imperative advantages of nickel-based super alloys. Inconel 625 is comprehensively adopted in numerous applications such as nuclear, chemical, aerospace and marine due to its exceptional characteristics. Furthermore this material has the applications in petro-chemical industries as this material highly appropriate for corrosion resistive environments [1–4].

Nickel based super alloys executes a highly important role in aerospace applications, engines for rockets, nuclear reactors, ther-

mal power plants, submarines and high temperature applications. Since these alloys are difficult to machine using the traditional methods, the nontraditional methods have been proposed to machine these alloys. The complication of machining of these kinds of hard to machine materials by conventional process leads to the development of advanced machining process such as WEDM and also helps to make the materials that are not possible by conventional methods of material removal [5,6].

Wire Electrical Discharge Machining (WEDM or Wire EDM) is one of the advanced method used for material removal process and greater in familiarity that employed in numerous engineering applications for producing various intricate shapes such as turbine blades, nozzles for fuel injectors, etc., This advanced method of material removal process has been adopted for machining materials which are difficult to machine, corrosive and wear resistant, especially electrically conductive. The perception of WEDM has been established from the Electrical Discharge Machining (EDM) and primarily adopted for producing complicated shapes on the

\* Corresponding author.

E-mail address: [thurairayurmani@gmail.com](mailto:thurairayurmani@gmail.com) (N. Manikandan).

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SB Account	Age	COVERAGE	Amount of Coverage
SB Diamond Account	05-75 Years 18-55 Years	Accidental Death Cover Life Cover	5,00,000 1,00,000
SB Platinum Account	05-75 Years 18-55 Years	Accidental Death Cover Life Cover	10,00,000 2,00,000
ASB Account	05-75 Years	Accidental Cover Only	50,000
ASB Plus Account	05-75 Years	Accidental Cover Only	1,00,000
ABG Account	05-75 Years	Accidental Cover Only	1,50,000
ABJ Account	18-55 Years	Accidental and Natural Death Cover	1,00,000
ABJ Plus Account	18-55 Years	Accidental and Natural Death Cover	2,00,000
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TIRUPATHI

ANDHRA PRADESH -517102

खाताधारक का नाम M/S COMP STUDY-WEDM-ME

Name of A/c Holder

CO SVEC SREE SAI NATH NAGAR

पत्ता Address RANGAMPET CHANDRAGIRI MD

CHITTOOR

ANDHRA PRADESH-517102

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Head Office, Saifabad, Hyderabad - 500 004.

दिनांक Date	विवरण Particulars	चेक क्र. Page 1 of 0 Cheque No.	आहरित राशि Amount Withdrawn	जमा की गई राशि Amount Deposited	खाता शेष Balance	संक्षिप्त हस्ताक्षर Initial
Account No: 54010100125519 Date: 20-08-2019	TR Clr Bal: Cr Rs.100000.00		Avail Amt Cr Rs.	100000.00 00000.00	100000.00 Eff Bal: Cr Rs.100000.00	)
8/F					0.00	
06-08-2019	TR				100000.00	100000.00Cr
06-09-2019	Int. Pd: 260719 to 310819				249.00	100249.00Cr
18-09-2019	CS01 SMS Chrgs/Jul-Sep 2019/919688760			18.00		100231.00Cr
03-12-2019	Int. Pd: 010919 to 301119				787.00	101018.00Cr
06-12-2019	N MANIKANDAN		52257	50000.00		51018.00Cr
17-12-2019	CS01 SMS Chrgs/Oct-Dec 2019/919688760			18.00		51000.00Cr
05-03-2020	Int. Pd: 011219 to 290220				429.00	51429.00Cr
26-03-2020	CS01 SMS Chrgs/Jan-Mar 2020/919688760			17.70		51411.30Cr
12-04-2020	Int. Pd: 010320 to 310320				142.00	51553.30Cr
20-09-2020	CS01 SMS Chrgs/Jul-Sep 2020/919688760			17.70	335.00	51920.60Cr
04-10-2020	Int. Pd: 010720 to 300920				391.00	51902.90Cr
20-12-2020	CS01 SMS Chrgs/Oct-Dec 2020/919688760			17.70		52293.90Cr
04-01-2021	Int. Pd: 011020 to 311220				394.00	52276.20Cr
23-01-2021	A/C MIGRATED TO UBI: 54010100125519			52670.20		52670.20Cr
23-01-2021	BALANCE TRANSFER		00000		52670.20	52670.20Cr
14-03-2021	SMS Charges for March, 2021 Quarter			17.70		52652.50Cr
10-04-2021	154010100125519: Int. Pd: 01-01-2021 to 31-03-2021				390.00	53042.50Cr
13-06-2021	SMS Charges for June, 2021 Quarter			17.70		53024.80Cr
05-07-2021	154010100125519: Int. Pd: 01-04-2021 to 30-06-2021				397.00	53421.80Cr
12-09-2021	SMS Charges for September, 2021 Quarter			17.70		53404.10Cr
04-10-2021	154010100125519: Int. Pd: 01-07-2021 to 30-09-2021				404.00	53808.10Cr
11-12-2021	SMS Charges for December, 2021 Quarter			17.70		53790.40Cr

**SANCTION ORDER**

To,

Date: 11.07.2019

**Mr/Ms K. Neelima,**  
Department of ECE

Sir/Madam,

**Sub:** Sanction of Seed Grant for carrying out Research activities – Reg.

We are glad to inform you that your proposal titled "**Adjacent error detection and correction for fundus images**" for providing **Financial Assistance under Seed Grants** has been accepted for the **year 2019-2020** by the Committee constituted for selection of projects and approval has been accorded to release an amount of **Rs.1.5 lakhs** to initiate the research activities.

The Principal Investigator has to present the progress of their project in front of a committee on a quarterly basis. The project should be completed within the prescribed duration and the Expenditure statements and Utilization Certificates have to be submitted during the end of financial year.



**PRINCIPAL**

**PRINCIPAL**

**SREE VIDYANIKETHAN ENGINEERING COLLEGE  
(AUTONOMOUS)**

Sree Sainath Nagar, A. RANGAMPET  
Chittoor (Dist.) - 517 102, A.P., INDIA.



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Andhra Pradesh - 517 102.
- +91-877-2504888
- +91 9160999977
- [www.vidyanikethan.edu](http://www.vidyanikethan.edu)

## Internally Funded (Seed Money) Project - Details

- Project Title** : Adjacent Error Detection and Correction for Fundus Images
- Department** : Electronics and Communication Engineering
- Name of the PI** : Ms. Neelima K
- Name of the Co-PI (if any)** : -
- Affiliation of PI & Co-PI** : Assistant Professor,  
Department of ECE,  
SreeVidyanikethan Engineering  
College, A. Rangampet, Tirupati
- Year of Funding (Financial year)** : 2019-20
- Project Duration** : One Year
- Amount Sanctioned (in Rs.)** : Rs. 1,50,000/-
- Abstract/Brief Summary of the project** :

The investigation of clinical reports suggested that more than ten percent patients with diabetes have a high risk of eye issues. In the recent years, there has been a dramatic increase in the number of diabetic patients suffering from diabetic retinopathy (DR). Diabetic Retinopathy (DR) is an eye ailment which influences eighty to eighty-five percent of the patients who have diabetes for more than ten years. The retinal fundus images with disease detected may undergo either shrinkage or enlargement when transmitted in a communication channel. This affects the decision of doctors with wrong diagnosis like the patient may be considered for treatment only with tablets or may be operated with laser treatment even when it is not necessary. To overcome this challenge error detection and correction methods are proposed and applied to the transmitted images for originality.

### **Work Done till date:**

New error detection and correction algorithms are developed, modeled in Verilog HDL and verified.

New error detection and correction algorithms are developed, modeled in Verilog HDL and verified.

The image processing is done for gray scale images and the error detection and correction algorithms are applied. The results ensured accuracy in gray scale images.

Still the work is to be completed and ensured for color image processing.

**Expected Outcomes:**

- Development of new Error Detection and Correction Codes.
- Application of these codes to image processing.
- Development of codes to read and write images using Verilog HDL.
- Establishing or using the link between MATLAB and Xilinx Vivado Tools for image processing.
- Implementation of Image Processing algorithms on FPGA.

  
Ms. Neelima K

**(Principal Investigator Name)**



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# SREE VIDYANIKETHAN ENGINEERING COLLEGE (AUTONOMOUS)

SreeSainath Nagar, A. Rangampet - 517 102

## Dept. of Electronics and Communication Engineering

Project Title	ADJACENT ERROR DETECTION AND CORRECTION FOR FUNDUS IMAGES
Department	Electronics and Communication Engineering
Name of the PI	Ms. Neelima K
Affiliation of PI	Assistant Professor, Department of ECE, SreeVidyanikethan Engineering College, A. Rangampet, Tirupati - 517102
Year of Funding (Financial Year)	2019-2020 (01-07-2019)
Project Duration	1 Year
Amount Sanctioned (in Rs.)	Rs. 1,50,000/-

### STATEMENT OF EXPEDITURE FOR THE AMOUNT SANCTIONED BY SVET

Sl. No.	Description	Name of the Firm	Bill No.	Date	Amount (in Rs.)
1.	Xilinx Zynq-7000 SoC ZC702 Evaluation Kit (70% Advance Payment)	ApplyVolt, Vijayawada	UBINJ21310465030	06-11-2021	Rs. 1,00,772/-
2.	Xilinx Zynq-7000 SoC ZC702 Evaluation Kit (30% Balance Payment)	ApplyVolt, Vijayawada	UBINJ21341458823	07-12-2021	Rs. 43,188/-
Total					Rs. 1,43,960/-

Thanking You,

*neelima*  
Ms. Neelima K

(Principal Investigator)

*(Signature)*  
Dr. N. Gireesh

HOD, ECE

HEAD  
Department of ECE  
SREE VIDYANIKETHAN ENGINEERING COLLEGE  
(AUTONOMOUS)  
Sree Sainath Nagar, Tirupati-517102 (A.P.)

06-12-2021

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From  
**Ms. Neelima K (SVECECE10)**  
Assistant Professor,  
Department of ECE,  
Sree Vidyanikethan Engineering College,  
A. Rangampet.

To  
**The Principal,**  
Sree Vidyanikethan Engineering College,  
Sree Sainath Nagar,  
Near TIRUPATI – 517 102

Sir,

Sub: Request to release balance payment amount as per the purchase order for the implementation of SEED Grant Project – Reg.

Ref: 1) SVET/Lab Equipment/SVEC-ECE/SEED Grant/0185/2021 Dt.: 07-10-2021  
2) Our Purchase Order: SVEC/ECE/Lab-Equ/PO/2021-22/01 Dt.: 10-10-2021.

Received the Xilinx Zynq – 7000 SoC ZC702 Evaluation Kit from M/s. Apply Volt, Vijayawada on 06-12-2021. The software for the equipment is successfully installed in the Antenna Research Lab and demonstrated the experimental setup for faculty members and research scholars.

An amount of Rs.1,00,772/- (Rupees One Lakh Seven Hundred and Seventy Two only) was paid as 70% advance of total amount of Rs. 1,43,960/- (Rupees One Lakh Forty Three Thousand Nine Hundred and Sixty only) on 06-11-2021. I request your kind self to permit the payment of balance amount of 30% of the total amount i.e., **Rs. 43,188/-** (Rupees Forty Three Thousand One Hundred and Eighty Eight only).

The payment need to be initiated as NEFT Transfer to the following account number.

Customer Name : APPLY VOLT  
Customer Address : #40-6/3-3, Srinilayam, IInd Floor,  
Co-operative Bank Colony,  
Moghalrajpuram, Vijayawada – 520010, A. P.  
Bank Name : Indian Overseas Bank  
Bank Address : R S No.36/1, Nearest Doer No. 76-14-54, Crombay Road,  
Bhavanipuram, Vijayawada – 520012, A.P.  
Branch Name : Bhavanipuram Branch  
Account No. : 318433 000 000 063  
Account Type : CC ACCOUNT (CCA)  
Bank IFSC Code : IOBA 0003184  
PAN Number : CGZPK4061J  
GST Number : 37CGZPK4061J1ZP

Thanking you,

Yours truly,  
*Neelima*  
Ms. Neelima K

Encl: 1) Tax Invoice dated on 08-11-2021  
2) Purchase Order  
3) Approval Letter

*Permitted,*  
*SAO, for needful*

*06/12/21*

*to  
Principal  
06/12/21*

*Forwarded to Principal  
N. P. V.  
ECE 06/12/21*

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# APPLY VOLT



## TAX INVOICE

Door No: 40-6/3-3, II floor, Srinilayam  
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Moghalrajpuram, Vijayawada-10  
Phone: 7013534002

PAN : CGZPK4061J  
GSTIN: 37CGZPK4061J1ZP

INV NO : AV/SVEC/21-22/26

DATE 08-11-21

E-Mail: support@applyvolt.com

### BILL TO

The Principal,  
Sree Vidyanikethan Engineering College,  
A.Rangampet, Chandragiri(M),  
Chittoor Dist-517102,A

### REFERENCE

PO NO: As per PO  
Date: 10.10.2021

### SHIP TO

Department of Electronics & Communication Engineering  
Sree Vidyanikethan Engineering College,  
A.Rangampet, Chandragiri(M),  
Chittoor Dist-517102,A.P

Customer GST No:NA

Kind Attent: Head of the Dept. ECE.

S.NO	HSN	DESCRIPTION	QTY	UNIT PRICE	TOTAL
1	85389000	Xilinx Zynq 7000 SoC ZC702 Evaluation Kit (As per PO)	1	INR 125,800.00	INR 125,800.00
Sub Total in INR					INR 125,800.00
CGST@9%					INR 11,322.00
SGST@9%					INR 11,322.00
Rupees in words: One Lakh Forty Eight Thousand Four Hundred Forty Four Only			Rounded	TOTAL	INR 148,444.00

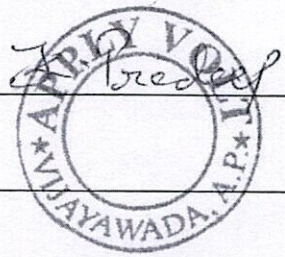
### Terms and Conditions

Mode of Dispatch	By Road
IGST	18% against IGST
Terms of payment	100% adv payment with PO

### Our Bank Details

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Bank: INDIAN OVERSEAS BANK  
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IFSC: IOBA0003184  
BRANCH : BHAVANIPURAM, VIJAYAWADA

For APPLY VOLT.



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**K. Seelima**  
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रुपये	वॉलेज	कुल
2000 x		
500 x		
200 x		
100 x		
50 x		
20 x		
10 x		
5 x		
2 x		
1 x		
कुल Total		

होताधिकारी के निम्न विवरण के साथ एनईएफटी आरटीएसजीएस के जरिए निधि विनियमित करने हेतु हम अनुरोध करता करती हैं।  
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 Benef. Branch Name  
 खाता संख्या **3184330000000063**  
 Benef. A/c. No.  
 आईएफएससी कोड **IOBI01003184**  
 Benef. IFS Code

राशि Amount **1,00,772/-**  
 कमीशन Commission  
 प्रभार Charges  
 कुल Total **1,00,772/-**  
 शब्दों में-रुपये / in words Rupees **ONE LAKH SEVEN HUNDRED AND SEVENTY TWO ONLY**  
 चेक नं./Cheque No. **009841**  
 बैंक/Bank **UNION BANK OF INDIA**  
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 राशि/Amount **1,00,772/-**

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**K. Seelima**

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 Entered by with ID No.

दस्तावेजित किया गया, आई नं. सहित  
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दिनांक DATE 07/12/2021  
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56

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एलेक्ट्रॉनिक भुगतान-पत्रिका  
AB Xpress RBI's NEFT

एच आर टाइम रील टाइम के प्रारथन  
AB Realtime RBI's RTGS

Comp. No. 11223  
Date 07/12/2021

भारतीय रिजर्व बैंक शाखा, ए. रामपेट  
V L S I RESEARCH FUND SVEC

खता संख्या  
Sender Account Number 154010100125023

पैन नंबर : या फॉर्म 6087, जो भी लागू हो, प्रस्तुत किया जाए  
PAN No. : or Form 6087 as applicable to be submitted

भारतीय रिजर्व बैंक के निम्न विवरण के साथ एलेक्ट्रॉनिक आरटीएस के जरिए निधि विद्येयिब करने हेतु मैं हम अनुरोध करना करता हूँ  
I/We request you to remit funds through  NEFT  RTGS with the following details of beneficiary as per the terms & conditions overleaf

भारतीय रिजर्व बैंक का नाम  
Beneficiary Name APPLY VOLT

बैंक का नाम  
Beneficiary Bank Name INDIAN OVERSEAS BANK

शाखा का नाम  
Beneficiary Branch Name BHAVANIPURAM

बैंक का खाता संख्या  
Beneficiary A/c No. 3184330000000063

आरटीएस कोड  
Beneficiary IFS Code IOBIA00031184

राशि Amount	43,188/-
कमीशन Commission	
प्रभार Charges	
कुल Total	43,188/-

शब्दों में-रुपये/  
in words Rupees FORTY THREE THOUSAND-  
ONE HUNDRED AND EIGHTY EIGHT ONLY

चेक नं./Cheque No. 009843  
बैंक/Bank UNION BANK OF INDIA  
दिनांक/Date 07/12/2021  
राशि/Amount 43,188/-

कंपन कार्यालय प्रयोग के लिए  
For Office Use only  
लेन ट्रेन्समिशन नंबर  
Tran ID No.

दारा प्रेषित/ Remitted by  
प्रेषक का पता/ Address of the remitted:  
K. Deelima.

प्रवेष्ट किया गया, आई डी नं. सहित  
Entered by with ID No.

वर्जित/सत्यापन किया गया, आई नं. सहित  
Posted / Verified by with ID No.

यह बीएसबीआई कोड के कार्यान्वयन सेल पंजीकृत है। Bank is committed to implement BCSBI codes

57

OUR DEPOSIT SCHEMES AT A GLANCE



Savings	SB Account	Age	COVERAGE	Amount of Coverage
Insurance Linked SB Accounts	SB Diamond Account	05-75 Years 18-55 Years	Accidental Death Cover Life Cover	5,00,000 1,00,000
	SB Platinum Account	08-75 Years 18-55 Years	Accidental Death Cover Life Cover	10,00,000 2,00,000
	ASB Account	05-75 Years	Accidental Cover Only	50,000
	ASB Plus Account	05-75 Years	Accidental Cover Only	1,00,000
	ABG Account	05-75 Years	Accidental Cover Only	1,50,000
	ABJ Account	18-55 Years	Accidental and Natural Death Cover	1,00,000
	ABJ Plus Account	18-55 Years	Accidental and Natural Death Cover	2,00,000
	ABJ Double Plus Account	18-55 Years	Accidental and Natural Death Cover	5,00,000
	ABJ Triple Plus Account	18-55 Years	Accidental and Natural Death Cover	10,00,000
	AB Kiddy Bank (Kids Khazana)	0-18 Years 18-70 Years	For Child - Accidental Cover For Parent / Guardian Cover	1,50,000 1,50,000
	AB Arogyadan	3 Months-70 Yrs	Renewable life long	
	Deposit Schemes	RD Account, RD Plus Account Fixed Deposit, Kalpaturu Deposit, AB Tax Saver Deposit, AB Freedom Deposit, AB Double Deposit, AB Money-Time Deposit		

For Further Information and scheme details please contact the nearest branch \* Conditions apply

- \* Andhra Bank is merely a mobilizer / facilitator for the Insurance and is no way liable for any claim. For the name of the Insurer & applicable terms and conditions of Insurance, customer may approach the Branch or refer Bank's website [www.andhrabank.in](http://www.andhrabank.in)
- \* For the applicable rates of interest contact the Branch or refer Bank's website [www.andhrabank.in](http://www.andhrabank.in)

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 2. While presented for updation of the Pass Book a new line appear every time at the end of transactions. Acronyms / Abbreviations used are provided in the last page.

शाखा /Branch

Comp. No. 11302

1540 SRI VIDYA NIKETHAN



आन्ध्रा बैंक  
देशवासियों का बैंक  
**Andhra Bank**  
Where India Banks

Dr-Ph : 0877-2247949  
IFSC CODE: ANDB0001540  
NICR CODE: 517011007  
bm1540@andhrabank.co.in

CHITTOOR DIST, ANDHRA PRADESH  
TIRUPATHI

पास बुक PASS BOOK

खाताधारक/का नाम/Name

Name of A/c Holder W/S V L S I RESEARCH FUND SVEC

खाता नंबर 154010100125023  
A/c. No.

पत्ता Address SREE SAI BATH HAGAR A RANAGAMPETA  
CHANDRAGIRI NANDAL CHITTOOR

फोन नंबर CHITTOOR  
Phone No. ANDHRA PRADESH-517102

प्रकार /Mode 19966547895



Scheme Code: SB06P  
CUST.ID : 59196084

दिनांक /Date: 07/2019

नामांकन पंजीकृत : हा /नही / Nomination Registered : Yes / No

प्रबंधक  
Manager's Signature

प्रधान कार्यालय, सैफाबाद, हैदराबाद - 500 004  
Head Office, Saifabad, Hyderabad - 500 004

Deposits are insured up to Rs 1,00,000 by DICGC per customer, subject to change from time to time



**SANCTION ORDER**

To,  
**Dr. Argha Sarkar**  
Department of ECE

Date: 11.07.2019

Sir/Madam,

**Sub:** Sanction of Seed Grant for carrying out Research activities – Reg.

We are glad to inform you that your proposal titled "**Fabricaton and Characterzation of Resistive Random Accesses Memories (RRAMs) for Energy Efficient Solution**" for providing **Financial Assistance under Seed Grants** has been accepted for the **year 2019-2020** by the Committee constituted for selection of projects and approval has been accorded to release an amount of **Rs. 1.75 lakhs** to initiate the research activities.

The Principal Investigator has to present the progress of their project in front of a committee on a quarterly basis. The project should be completed within the prescribed duration and the Expenditure statements and Utilization Certificates have to be submitted during the end of financial year.

*P. Ch. Chary*

**PRINCIPAL**  
**PRINCIPAL**  
**SREE VIDYANIKETHAN ENGINEERING COLLEGE**  
**(AUTONOMOUS)**  
Sree Sainath Nagar, A. RANGAMPET  
Chittoor (Dist.) - 517 102, A.P., INDIA.



- Sree Sainath Nagar, Tirupati, Andhra Pradesh - 517 102.
- +91-877-2504888
- +91 9160999977
- www.vidyanikethan.edu

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Department of Electronics And Communication Engineering

**SREE VIDYANIKETHAN ENGINEERING COLLEGE**

(AUTONOMOUS)

Sree Sainath Nagar, Tirupati – 517 102, A.P., INDIA

2019-2020

### Details of the Project

1. Title of Project: **Fabrication and Characterization of Resistive Random Accesses Memories (RRAMs) for Energy Efficient Solution**
2. Organization
  - a) Name: Sree Vidyanikethan Engineering College
  - b) Address: Sree Sainath Nagar, Tirupati, Andhra Pradesh 517102.
3. Chief Investigator
  - a) Name: Dr. Argha Sarkar
  - b) Designation: Assistant Professor
  - c) Department: ECE
  - c) Address: College Quarters, Sree Vidyanikethan Engineering College Campus, A Rangampet, Tirupati, Andhra Pradesh 517102
  - d) Email: argha15@gmail.com/argha.nit@gmail.com
4. Collaboration (if required): Dr. Pinaki Chakraborty, (former Dean R&D, NIT Arunachal Pradesh), HoD & Associate professor, Dept. of Physics, Raiganj University, (Govt. of West Bengal) 733134

Principal Investigator

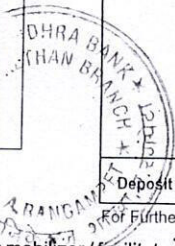
(Dr. ARGHA SARKAR)



OUR DEPOSIT SCHEMES AT A GLANCE



Savings	SB Account	Age	COVERAGE	Amount of Coverage
Insurance Linked SB Accounts	SB Diamond Account	05-75 Years	Accidental Death Cover	5,00,000
		18-55 Years	Life Cover	1,00,000
	SB Platinum Account	08-75 Years	Accidental Death Cover	10,00,000
		18-55 Years	Life Cover	2,00,000
	ASB Account	05-75 Years	Accidental Cover Only	50,000
	ASB Plus Account	05-75 Years	Accidental Cover Only	1,00,000
	ABG Account	05-75 Years	Accidental Cover Only	1,50,000
	ABJ Account	18-55 Years	Accidental and Natural Death Cover	1,00,000
	ABJ Plus Account	18-55 Years	Accidental and Natural Death Cover	2,00,000
	ABJ Double Plus Account	18-55 Years	Accidental and Natural Death Cover	5,00,000
	ABJ Triple Plus Account	18-55 Years	Accidental and Natural Death Cover	10,00,000
	AB Kiddy Bank (Kids Khazana)	0-18 Years	For Child - Accidental Cover	1,50,000
	18-70 Years	For Parent / Guardian Cover	1,50,000	
AB Arogyadan		3 Months-70 Yrs	Renewable life long	
Deposit Schemes	RD Account, RD Plus Account Fixed Deposit, Kalpaturu Deposit, AB Tax Saver Deposit, AB Freedom Deposit, AB Double Deposit, AB Money-Time Deposit			



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शाखा /Branch

Comp. No. 11302

1540 SRI VIDYA NIKETHAN



आन्ध्रा बैंक  
देशवासियों का बैंक  
**Andhra Bank**  
Where India Banks

DrPh : 0877-2247949  
IFSC CODE: ANDB0001540  
MICR CODE: 517011007  
bm1540@andhrabank.co.in

ETIRUPATHI  
CHITTOOR DIST, ANDHRA PRADESH  
TIRUPATHI

पास बुक PASS BOOK

खताधारक का नाम ANDHRA PRADESH -517102

Name of A/c Holder M/S NANO ELECTRONICS RESEARCH FUND

खता नंबर 154010100125032  
A/c. No.

पत्ता Address SREE SAI NATH NAGAR A RANAGAMPETA  
CHANDRAGIRI NANDAL

फोन नंबर CHITTOOR  
Phone No. ANDHRA PRADESH-517102

प्रकार /Mode 19832659394

दिनांक /Date: 07-2019  
नामांकन पंजीकृत : हा /नहीं / Nomination Registered: Yes / No



प्रबंधक  
Manager's Signature

Scheme Code: SBOGP  
CUST.ID : 59199110

प्रधान कार्यालय, सैफाबाद, हैदराबाद - 500 004  
Head Office, Saifabad, Hyderabad - 500 004.

Deposits are insured up to Rs 1,00,000 by DICGC per customer, subject to change from time to time.

Dr Argha Sarkar, EOD

दिनांक Date	विवरण Particulars	चेक क्र. Cheque No.	आहरित राशि Amount Withdrawn	जमा की गई राशि Amount Deposited	खाता शेष Balance	संक्षिप्त हस्ताक्षर Initial
06/08/2019 (Date:22-08-2019)	1540 TR FROM 0033310 2019 Clr Bal: Cr	13805851 Rs.175000.00	Avail AmtCr Rs.	175000.00 Eff	175000.00 Bal:Cr Rs.175000.00	Cr )
06/09/2019	Int. Pd: 160719 to 310819		18.00	436.00	175436.00	Cr
18/09/2019	CS01 SMS Chrgs/ Jul-Sep			1377.00	175418.00	Cr
03/12/2019	Int. Pd: 010919 to 301119		18.00		176795.00	Cr
17/12/2019	CS01 SMS Chrgs/ Oct-Dec			1329.00	178106.00	Cr
05/03/2020	Int. Pd: 011219 to 290220		17.70		178088.30	Cr
26/03/2020	CS01 SMS Chrgs/ Jan-Mar			464.00	178552.30	Cr
12/04/2020	Int. Pd: 010320 to 310320		17.70		178534.60	Cr
22/06/2020	CS01 SMS Chrgs/ Apr-Jun			1332.00	179866.60	Cr
07/07/2020 (Date:14-07-2020)	Int. Pd: 010420 to 300620 2020 Clr Bal: Cr	Rs.179866.60	Avail AmtCr Rs.	179866.60 Eff	179866.60 Bal:Cr Rs.179866.60	Cr )

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**SANCTION ORDER**

To,

Date: 11.07.2019

**Dr. K. G. Suma,**  
Department of CSE

Sir/Madam,

**Sub:** Sanction of Seed Grant for carrying out Research activities – Reg.

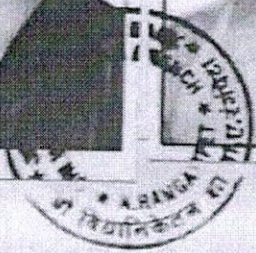
We are glad to inform you that your proposal titled **“Detection of glaucoma in fundus images using soft computing techniques”** for providing **Financial Assistance under Seed Grants** has been accepted for the **year 2019-2020** by the Committee constituted for selection of projects and approval has been accorded to release an amount of **Rs. 0.5 lakhs** to initiate the research activities.

The Principal Investigator has to present the progress of their project in front of a committee on a quarterly basis. The project should be completed within the prescribed duration and the Expenditure statements and Utilization Certificates have to be submitted during the end of financial year.



*P. Ch. Chary*  
**PRINCIPAL**  
**PRINCIPAL**  
**SREE VIDYANIKETHAN ENGINEERING COLLEGE**  
**(AUTONOMOUS)**  
Sree Sainath Nagar, A. RANGAMPET  
Chittoor (Dist.) - 517 102, A.P., INDIA.

- Sree Sainath Nagar, Tirupati,  
Andhra Pradesh - 517 102.
- +91-877-2504888
- +91 9160999977
- [www.vidyanikethan.edu](http://www.vidyanikethan.edu)



Dr. Suma, CSK

IMAGES AT A GLANCE

Accounts	Tenure	COVERAGE	
		Coverage	Amount of Coverage
SB Platinum Account	18-75 Years	Accidental Death Cover Life Cover	5,00,000 1,00,000
ASB Account	18-55 Years	Accidental Death Cover Life Cover	10,00,000 2,00,000
ASB Plus Account	05-75 Years	Accidental Cover Only	50,000
ABG Account	05-75 Years	Accidental Cover Only	1,00,000
ABJ Account	18-55 Years	Accidental and Natural Death Cover	1,50,000
ABJ Plus Account	18-55 Years	Accidental and Natural Death Cover	1,00,000
ABJ Double Plus Account	18-55 Years	Accidental and Natural Death Cover	2,00,000
ABJ Triple Plus Account	18-55 Years	Accidental and Natural Death Cover	5,00,000
AB Kiddy Bank (Kids Khazana)	0-18 Years	For Child - Accidental Cover	10,00,000
	18-70 Years	For Parent / Guardian Cover	1,50,000
AB Arogyadaan	3 Months-70 Yrs	Renewable life long	1,50,000

Deposit Schemes

RD Account, RD Plus Account, Fixed Deposit, Kalpataru Deposit, AB Tax Saver Deposit, AB Freedom Deposit, AB Double Deposit, AG Money-Time Deposit

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शाखा /Branch

Comp. No. 11302

1540 SRI VIDYA NIKETHAN

आन्ध्रा बैंक  
देशवासियों का बैंक  
**Andhra Bank**  
Where India Banks

BrPh : 0877-2247949  
IFSC CODE: ANDR0001540  
MICR CODE: 517011007  
bm1540@andhrabank.co.in

पास बुक PASS BOOK

ETIRUPATHI  
CHITTOR DIST, ANDHRA PRADESH

खाताधारक का नाम  
Name of A/c Holder -517102

पता Address

CO SVEC SREE SAI NATH NAGAR  
A RANGAMPET CHANDRAGIRI MO

फोन नंबर / Phone No. CHITTOOR  
प्रकार / Mode ANDHRA PRADESH-517102

दिनांक / Date : 919442544040  
JOINTLY

नामांकन पंजीकृत / Jointly / Nomination Registered / Yes / No

M/S DETECTION OF GLAUCOMA IN FUNDS IMAGES

खाता नंबर  
A/c No: 54010100125634

Scheme Code: S80GP  
CUST.ID : 59335572



प्रधान कार्यालय, सैफाबाद, हैदराबाद - 500 004

63

deposits are insured up to Rs. 1,00,000 by DICGC per customer, subject to change from time to time

दिनांक Date	विवरण Particulars	चेक क्र. Cheque No.	आहरित राशि Amount Withdrawn	जमा की गई राशि Amount Deposited	खाता शेष Balance	संक्षिप्त हस्ताक्षर Initial
Account No: 154010100125634						
06/08/2019	TR FROM 003331043805856			50000.00	50000.00Cr	
06/09/2019	Int. Pd: 300719 to 310819			125.00	50125.00Cr	
18/09/2019	CS01 SMS Chrgs/Jul-Sep		18.00		50107.00Cr	
03/12/2019	Int. Pd: 010919 to 301119			416.00	50523.00Cr	
17/12/2019	CS01 SMS Chrgs/Oct-Dec		18.00		50505.00Cr	
05/03/2020	Int. Pd: 011219 to 290220			408.00	50913.00Cr	
26/03/2020	CS01 SMS Chrgs/Jan-Mar		17.70		50895.30Cr	
12/04/2020	Int. Pd: 010320 to 310320			140.00	51035.30Cr	
22/06/2020	CS01 SMS Chrgs/Apr-Jun		17.70		51017.60Cr	
07/07/2020	Int. Pd: 010420 to 300620			381.00	51398.60Cr	
20/09/2020	CS01 SMS Chrgs/Jul-Sep		17.70		51380.90Cr	
04/10/2020	Int. Pd: 010720 to 300920			388.00	51768.90Cr	
20/12/2020	CS01 SMS Chrgs/Oct-Dec		17.70		51751.20Cr	
04/01/2021	Int. Pd: 011020 to 311220			390.00	52141.20Cr	

Date: 08-01-2021 Clr Bal: Cr Rs. 52141.20 Avail Amt Cr Rs. 52141.20 Eff Bal: Cr Rs. 52141.20 )

(54)

**SANCTION ORDER**

To,  
**Dr. R. Vinoth,**  
Department of Mechanical Engineering

Date: 11.07.2019

Sir/Madam,

**Sub:** Sanction of Seed Grant for carrying out Research activities – Reg.

We are glad to inform you that your proposal titled “**Study of heat transfer and fluid flow through microchannel heat sink using nano fluids**” for providing **Financial Assistance under Seed Grants** has been accepted for the **year 2019-2020** by the Committee constituted for selection of projects and approval has been accorded to release an amount of **Rs. 1.75 lakhs** to initiate the research activities.

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*P. C. K. Rao*

**PRINCIPAL**

**PRINCIPAL**

**SREE VIDYANIKETHAN ENGINEERING COLLEGE  
(AUTONOMOUS)**

Sree Sainath Nagar, A. RANGAMPET  
Chittoor (Dist.) - 517 102, A.P., INDIA.

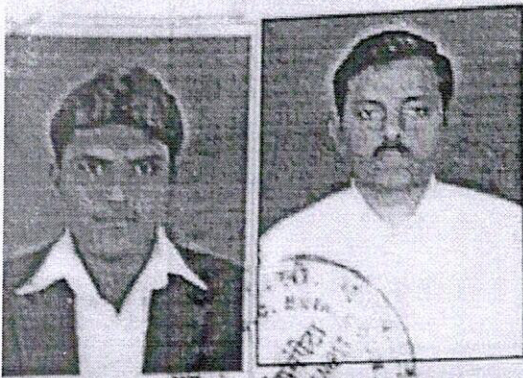


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Andhra Pradesh - 517 102.
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- +91 9160999977
- [www.vidyanikethan.edu](http://www.vidyanikethan.edu)

Dr. Vinodh.

## OUR DEPOSIT SCHEMES AT A GLANCE

66



SB Account	Age	COVERAGE	Amount of Coverage
SB Diamond Account	05-75 Years	Accidental Death Cover	5,00,000
	18-55 Years	Life Cover	1,20,000
SB Platinum Account	05-75 Years	Accidental Death Cover	10,00,000
	18-55 Years	Life Cover	2,00,000
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AB Kiddy Bank (Kids Khazana)	0-18 Years	For Child - Accidental Cover	1,50,000
AB Arogyadan	18-70 Years	For Parent / Guardian Cover	1,50,000
AB Arogyadan	3 Months-70 Yrs	Renewable life long	

Deposit Schemes

RD Account, RD Plus Account Fixed Deposit, Kalpataru Deposit, AB Tax Saver Deposit, AB Freedom Deposit, AB Double Deposit, AB Money-Time Deposit

For further information and scheme details please contact the nearest branch

\* Conditions apply

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शाखा /Branch

Comp. No. 11302

1540 SRI VIDYA NIKETHAN



BrPh : 0877-2247949  
IFSC CODE: ANDB0001540  
NECR CODE: 517011007  
bml540@andhrabank.co.in

CHITTOOR DIST, ANDHRA PRADESH  
TIRUPATHI  
ANDHRA PRADESH - 517102

पास बुक PASS BOOK

खाताधारक का नाम / Name of A/c Holder

154010100126520  
खाता नंबर / A/c No.  
Scheme Code: SB06P  
CUST ID: 59306632

00 SVEC SREE BAI NATH NAGAR  
RANGAMPET CHANDRAGIRI MD

CHITTOOR  
ANDHRA PRADESH-517102  
919944280433

ALL JOINTLY

6-07-2019

दिनांक / Date  
गणना/नॉमिनेशन/Registration Registered: Yes / No

प्रबंधक  
Manager's Signature

प्रधान कार्यालय, सैफाबाद, हैदराबाद - 500 0  
Head Office, Saifabad, Hyderabad - 500 0

क्र. सं.	विवरण Particulars	चेक नं. Cheque No.	आहरित राशि Amount Withdrawn	जमा की गई राशि Amount Deposited	बचत शेष Balance	संक्षिप्त हस्ताक्षर Initial
2019	TR			175000.00	175000.00	
2019	Int. No: 280719 to 310819			436.00	175436.00	
2019	USD Int. Chrgs. Jul-Sep		16.00		175420.00	
2019	Int. No: 010919 to 301119			1377.00	176797.00	
2019	USD Int. Chrgs/Oct-Dec		18.00		176779.00	
2020	चिन्मय	42907	100000.00		76779.00	
2020	Int. No: 011219 to 290220			1329.00	78108.00	
2020	Int. No: 010320 to 110320			289.00	78397.00	
2020	USD Int. Chrgs Apr-Jun		17.70		78179.30	
2020	Int. No: 010420 to 300620			588.00	78767.30	
2020	USD Int. Chrgs Jul-Sep		17.70		78549.60	
2020	Int. No: 010720 to 300920			345.00	78894.60	
2020	14-12-2020 Cr Bal. Cr Rs. 19488.60			78894.60	78894.60	



**SANCTION ORDER**

To,

Date: 11.07.2019

**Dr. B. Sachuthananthan,**

Department of Mechanical Engineering

Sir/Madam,

**Sub:** Sanction of Seed Grant for carrying out Research activities – Reg.

We are glad to inform you that your proposal titled "**Carbon capture of CI Engine with blends of methyl ester of microalgae as alternate fuel.**" for providing **Financial Assistance under Seed Grants** has been accepted for the **year 2019-2020** by the Committee constituted for selection of projects and approval has been accorded to release an amount of **Rs. 1 lakh** to initiate the research activities.

The Principal Investigator has to present the progress of their project in front of a committee on a quarterly basis. The project should be completed within the prescribed duration and the Expenditure statements and Utilization Certificates have to be submitted during the end of financial year.

  
**PRINCIPAL**  
**PRINCIPAL**  
**SREE VIDYANIKETHAN ENGINEERING COLLEGE**  
**(AUTONOMOUS)**  
Sree Sainath Nagar, A. RANGAMPET  
Chittoor (Dist.) - 517 102, A.P., INDIA.



- Sree Sainath Nagar, Tirupati,  
Andhra Pradesh - 517 102.
- +91-877-2504888
- +91 9160999977
- [www.vidyanikethan.edu](http://www.vidyanikethan.edu)

### **Internally Funded (Seed Money) Project - Details**

Project Title	: Study on the use of Methyl Ester of Water Hyacinth as alternate fuel in a Diesel engine
Department	: Mechanical Engineering
Name of the PI	: Dr.B.SACHUTHANANTHAN
Name of the Co-PI (if any)	: DR.KESAVULU
Affiliation of PI & Co-PI	: Sree Vidyanikethan Engineering College
Year of Funding (Financial year)	: 2019-20
Project Duration	: 2 Years
Amount Sanctioned (in Rs.)	: Rs 1,00,000/- (Rupees One lakh only)

Abstract/Brief Summary of the project : Due to the increasing awareness of the depletion of fossil fuel resources and environmental issues, biodiesel became more and more attractive in the recent years. Diesel engines are widely used in light, medium and heavy-duty vehicles like load carriers, tractors, and power generation devices. Any country's development is strongly dependent on the availability of fuels for transportation, agriculture and power generation sectors. For many developing countries like India, meeting the high demand for oil is a major challenge. In this connection there is need to search alternative fuels in place of petrol diesel products. Several alternative fuels are being considered for use in diesel engines. The potential alternative fuels are liquid fuels, like vegetable oils. Biodiesel is one of the alternatives to diesel and petrol fuels. The properties of biodiesels are nearer to diesel fuel, it can be directly used in diesel engines without any modification of

the engine. The objective of the present work is to Extract Biodiesel from Water Hyacinth plants and use it as an alternative fuel for Diesel engine. This Experimental work investigates the performance, combustion and emission characteristics of Diesel engine with water Hyacinth Biodiesel blended with mixtures of Zinc Oxide (ZnO) and Magnesium Oxide (MgO) Nano particles. Owing to the higher surface area/volume ratio characteristics of nanoparticles, the degree of mixing and chemical reactivity are enhanced during the combustion, attaining better performance, combustion and emission attributes of the diesel engine.

Also the higher NOx emission arised due to the use of Biodiesel shall be controlled with the use of SCR(Selective Catalytic Reduction Technique) at the exhaust to control the major toxic gases.

Work Done till date :

Installed a 25 liters Biodiesel Manufacturing plant in Our Thermal Engineering Laboratory

Did Experiment on Diesel engine using Methyl Ester of Water Hyacinth Biodiesel as fuel

Did Experiment on Diesel engine using Methyl Ester of Water Hyacinth Biodiesel as fuel with Selective Catalytic Reduction Technique as after treatment technique

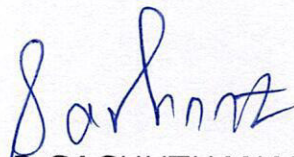
Submitted two article for an International conference

P.T.O

Expected Outcomes :

Determining the suitability of Water Hyacinth plants as a source for Biofuel extraction.

Determining the use of oil extracted from Water Hyacinth as a suitable fuel to run Diesel Engines.



: Dr. B. SACHUTHANANTHAN  
(Principal Investigator Name)

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# SREE VIDYANIKETHAN ENGINEERING COLLEGE

(AUTONOMOUS)

Sree Sainath Nagar, Tirupati - 517 102, A.P.

DEPARTMENT OF MECHANICAL ENGINEERING

## STATEMENT OF ACCOUNTS FOR THE AMOUNT

SANCTIONED BY SVET

Sl.No	Description	Name of the Firm	Bill No.	Date	Amount (Rs.)
1	Purchase of Biodiesel Production plant	Anand Scientific Company	0183/21-22	12 July 2021	35,000
2	Stand setup for the Biodiesel production unit	Sri Kamakshi Enterprises	719	27 August 2021	4,100
3	Biodiesel Extraction and Diesel engine operated with Various catalyst coated SCR Unit	Sree Venkateswara Engineering Consultancy works	3598	11 January 2021	62,500
<b>Total Expenses</b>					<b>1,01,600</b>

*Sachu*  
Dr. B. Sachuthananthan

(P. I)

Thanking you,

*Satya Meher*

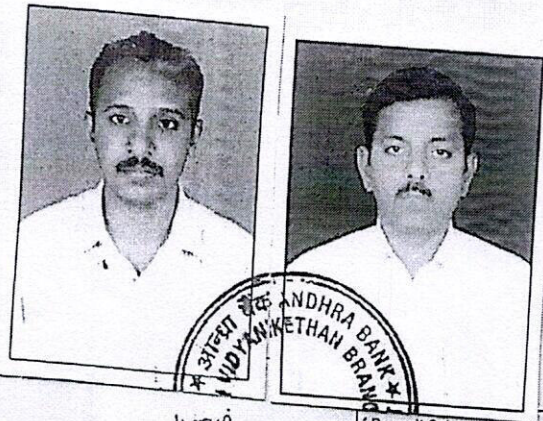
Dr. R. SATYA MEHER  
Professor & Head  
Dept of Mechanical Engineering  
Sree Vidyanikethan Engineering College  
TIRUPATI-517 102

Dr. Saebethanathan

73

154010012557

OUR DEPOSIT SCHEMES AT A GLANCE



SB Account	Age	COVERAGE	Amount of Coverage
SB Diamond Account	05-75 Years	Accidental Death Cover	5,00,000
	18-55 Years	Life Cover	1,00,000
SB Platinum Account	05-75 Years	Accidental Death Cover	10,00,000
	18-55 Years	Life Cover	2,00,000
ASB Account	05-75 Years	Accidental Cover Only	50,000
ASB Plus Account	05-75 Years	Accidental Cover Only	1,00,000
ABG Account	05-75 Years	Accidental Cover Only	1,50,000
ABJ Account	18-55 Years	Accidental and Natural Death Cover	1,00,000
ABJ Plus Account	18-55 Years	Accidental and Natural Death Cover	2,00,000
ABJ Double Plus Account	18-55 Years	Accidental and Natural Death Cover	5,00,000
ABJ Triple Plus Account	18-55 Years	Accidental and Natural Death Cover	10,00,000
AB Kiddy Bank (Kids Khazana)	0-18 Years	For Child - Accidental Cover	1,50,000
	18-70 Years	For Parent / Guardian Cover	1,50,000
AB Arogyadan	3 Months-70 Yrs	Renewable life long	

Deposit Schemes

RD Account, RD Plus Account Fixed Deposit, Kalpataru Deposit, AB Tax Saver Deposit, AB Freedom Deposit, AB Double Deposit, AB Money-Time Deposit

- ★ Andhra Bank is merely a broker/agent for the Insurance and is no way liable for any claim. For the name of the Insurer & applicable terms and conditions of Insurance, customer may approach the Branch or refer Bank's website [www.andhrabank.in](http://www.andhrabank.in)
- ★ For the applicable rates of Interest contact the Branch or refer Bank's website [www.andhrabank.in](http://www.andhrabank.in)

Note: 1. Account holders are requested to maintain sufficient balance in the account for deduction of Insurance premium and also verify Whether the premium is deducted or not on due dates. Bank will not be responsible for non-debuction of premium due to paucity of clear funds in the account.  
 2. While presented for updation of the Pass Book a New Line appear every time at the end of transactions. Acronyms/Abbreviations used are provided in the last page.

शाखा /Branch  
1540 SRI VIDYA NIKETHAN

ETIRUPATHI  
CHITTOR DIST, ANDHRA PRADESH  
TIRUPATHI  
ANDHRA PRADESH -517102

खाताधारक का नाम M/S. BIOFUEL EXTRACTION

Name of A/c Holder CO SVEC SREE SAI NATH NAGAR

पत्ता Address 4 RANGAMPET CHANDRAGIRI MD

CHITTOOR

फोन नंबर ANDHRA PRADESH-517102

Phone No. प्रकार /Mode JOINTLY

29-07-2019

दिनांक /Date: 29-07-2019

नामांकन पंजीकृत : हाँ /नहीं / Nomination Registered : Yes / No



पास बुक PASS BOOK

Comp. No. 11302  
BrPh :0877-2247949  
IFSC CODE: ANDB0001540  
MICR CODE: 517011007  
bm1540@andhrabank.co.in

154010100125573  
खाता नंबर  
A/c Name Code: SB06P  
CUST.ID : 59322245



Manager's Signature

प्रधान कार्यालय, सैफाबाद, हैदराबाद - 500 004  
Head Office, Saifabad, Hyderabad - 500 004.

दिनांक Account No: 154010100125573 Date	विवरण Particulars	चेक क्र. Cheque No.	आहरित राशि Amount Withdrawn	जमा की गई राशि Amount Deposited	खाता शेष Balance	संक्षिप्त हस्ताक्षर Initial
06/08/2019	TR			100000.00	100000.00Cr	
06/09/2019	Int. Pd: 290719 to 310819			249.00	100249.00Cr	
18/09/2019	CS01 SMS Chrgs/Jul-Sep		18.00		100231.00Cr	
(Date:30-09-2019	Clr Bal: Cr	Rs.100231.00	Avail AmtCr Rs.	100231.00	Eff Bal:Cr Rs.100231.00	)
15/10/2019	SELF	45624	50000.00		50231.00Cr	
03/12/2019	Int. Pd: 010919 to 301119			618.00	50849.00Cr	
17/12/2019	CS01 SMS Chrgs/Oct-Dec		18.00		50831.00Cr	
(Date:10-01-2020	Clr Bal: Cr	Rs.50831.00	Avail AmtCr Rs.	50831.00	Eff Bal:Cr Rs.50831.00	)
05/03/2020	Int. Pd: 011219 to 290220			411.00	51242.00Cr	
24/03/2020	CS01 SMS Chrgs/Jan-Mar		17.70		51224.30Cr	
12/04/2020	Int. Pd: 010320 to 310320			141.00	51365.30Cr	
22/06/2020	CS01 SMS Chrgs/Apr-Jun		17.70		51347.60Cr	
07/07/2020	Int. Pd: 010420 to 300620			383.00	51730.60Cr	
20/09/2020	CS01 SMS Chrgs/Jul-Sep		17.70		51712.90Cr	
04/10/2020	Int. Pd: 010720 to 300920			390.00	52102.90Cr	
(Date:14-12-2020	Clr Bal: Cr	Rs.52102.90	Avail AmtCr Rs.	52102.90	Eff Bal:Cr Rs.52102.90	

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From

26/08/2021

**Dr.B.Sachuthananthan**

Professor, Department of Mechanical Engineering,  
Sree Vidyanikethan Engineering College,  
A Rangampet, Tirupati-517 102.

To

**The Principal,**

Sree Vidyanikethan Engineering College,  
Rangampet, Tirupati-517102.

Sir,

I was sanctioned an amount of Rs 1,00,000( Rupees One Lakh only) during August 2019 as seed money for doing internally funded project. I am doing my project under the title "Study on the use of nano additives in Diesel engines and other thermal systems.". I finished all my experimental and other works. I published two conference papers and published five articles in various Scopus and SCI Indexed Journals.

Also installed a 25 litre capacity Biodiesel production plant in the Thermal Engineering Laboratory in SVEC at a cost of Rs 35,000/-(Rupees Thirty five thousand only). I finished almost all the work related to the project and few of the papers has been communicated and waiting for the comments from reviewers. I also need to finish one last work on Selective Catalytic Reduction(SCR) system in Diesel engine. Once the above said works are over, I can submit the report on the project in another 3 months. Hence I kindly request you to give me time up to end of November 2021 to finish the project and submit the completion report of the project.

Thanking you,

Permitted  
SAO, for needed

26/8/21

Yours faithfully

Sachuthan  
(Dr B SACHUTHANANTHAN)

Reddy



## Internally Funded (Seed Money) Project - Details

Project Title	: Study on the use of nano additives in Diesel engines and other thermal systems.
Department	: Mechanical Engineering
Name of the PI	: Dr. B. SACHUTHANANTHAN
Name of the Co-PI (if any)	: Dr. A. KESAVULU
Affiliation of PI & Co-PI	: Professor, Mechanical Engg., SVEC Asso. Prof., GEBH, SVEC
Year of Funding (Financial year)	: 2019-2020
Project Duration	: 2 years
Amount Sanctioned (in Rs.)	: Rs 1,00,000 (Rupees one lakh only)
Work Done till date	:

1. Installed a 25 litre capacity **Biodiesel production plant** in the Thermal Engineering Laboratory in **SVEC** at a cost of Rs 40,000/- (Rupees Forty Thousand only).

Following articles were published in various reputed journals and conferences

2. **B. Sachuthananthan**, R. Vinoth "Flow and heat transfer behaviour of hybrid nanofluid through microchannel with two different channels" "International Communications in Heat and Mass Transfer", March 2021, Elsevier Publishers, IMPACT FACTOR :5.5. Volume- 123, issue - 7, Scopus, SCI Indexed.

3. **B. Sachuthananthan**, . R. Vinoth, Experimental study of heat transfer and pressure drop characteristics of microtube condenser using R134a" "International Journal of Ambient Energy" April 2021, Taylor and Francis Publishers, IMPACT FACTOR :0.81. Scopus, ESCI indexed.

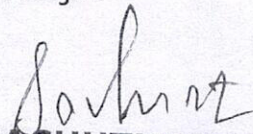
4. **B.Sachuthananthan**, R.Vinoth, "Environmental impact on the use of Diesel Waste plastic oil Nano additive blends in a DI Diesel engine", "International Journal of Nanotechnology" August 2021, Inderscience Publishers, IMPACT FACTOR :1.2. Scopus, SCI Indexed.

5. **B.Sachuthananthan**, R.Vinoth, "Study on the heat transfer characteristics of Al<sub>2</sub>O<sub>3</sub>-CuO/Water hybrid nano fluids in a shell and rotating wavy tube heat exchanger" "Material Science and Engineering" IOP Series, Conference proceedings, April 2021, Scopus Indexed.

6. **B.Sachuthananthan**, R.Vinoth, "Role of non-metallic nano additives in the behavior of a diesel engine fuelled with blends of waste plastic oil" "Material Science and Engineering" IOP Series, Conference proceedings, April 2021, Scopus Indexed.

7. Published one article titled "Use of Selective Catalytic reduction technique for NO<sub>x</sub> emission studies in an Diesel engine fuelled with Methyl Ester of Water Hyacinth" in the International conference on Energy and Materials Technologies, August 20-21, 2021 Organized by Department of Mechanical Engineering Sri Sivasubramaniya Nadar College of Engineering Kalavakkam-603110. Tamil Nadu, India by **B.Sachuthananthan**, R.Vinoth, Xavier De Cruze, D.Raghurami Reddy.

8. Published one article titled "Study on the use of Mahua oil biodiesel as alternate fuel in a diesel engine with mixture of ZnO and MgO nano additives" in the International conference on Energy and Materials Technologies, August 20-21, 2021 Organized by Department of Mechanical Engineering Sri Sivasubramaniya Nadar College of Engineering Kalavakkam-603110. Tamil Nadu, India by **B.Sachuthananthan**, A.Gnana Sagayaraj, Xavier De Cruz, B.GnanaTeja, Y.Srinivasula Reddy, M.Balaji, P.Raju.

  
(**Dr.B.SACHUTHANANTHAN**)

(Principal Investigator Name)

**SANCTION ORDER**

To,

Date: 11.07.2019

**Dr. M. Babu Raj, Dr. S. Ragu Nathan**  
Department of Mechanical Engineering

Sir/Madam,

**Sub:** Sanction of Seed Grant for carrying out Research activities – Reg.

We are glad to inform you that your proposal **titled "Investigation on minimum thickness sheets which can be achieved by wire electrode discharge machining process"** for providing **Financial Assistance under Seed Grants** has been accepted for the year **2019-2020** by the Committee constituted for selection of projects and approval has been accorded to release an amount of **Rs. 1.6 lakh** to initiate the research activities.

The Principal Investigator has to present the progress of their project in front of a committee on a quarterly basis. The project should be completed within the prescribed duration and the Expenditure statements and Utilization Certificates have to be submitted during the end of financial year.


*P. Ch. Chary*  
**PRINCIPAL**

**PRINCIPAL**  
**SREE VIDYANIKETHAN ENGINEERING COLLEGE**  
(AUTONOMOUS)  
Sree Sainath Nagar, A. RANGAMPET  
Chittoor (Dist.) - 517 102, A.P., INDIA.



**Internally Funded (Seed Money) Project- Details**

Project Title	:	Capability investigation of wire electric discharge machine for generating thin sheets
Department	:	Mechanical Engineering
Name of the PI	:	Dr M Baburaj
Name of the Co-PI (if any)	:	Dr S Ragu Nathan
Affiliation of PI & Co-PI	:	Associate Professor, Dept. of Mechanical Engineering, Sree Vidyanikethan Engineering College.
Year of Funding (Financial year)	:	2019-20
Project Duration	:	18 Months
Amount Sanctioned (in Rs.)	:	Rs.1,60,000.00 (One Lakh Sixty thousand)
<p>Abstract/Brief Summary of the project: Conventional machining processes are now being replaced by non-traditional machining processes due to increasing demands of complex shape geometries with high surface finish. Wire EDM is one such kind of non-traditional machining processes which has wide applications. The growth of the developing countries is majorly depending on contribution of small-scale industries. The cost of the higher end machines is not affordable to them. Most of the small-scale industries are not using higher end machines for producing the products. This project is an attempt to improvise the quality of the product which can be manufactured using lower end wire-EDM machines by modifying the machining strategies and developing new dielectric supply system. This will help to improve the productivity of lower end machines with minimal cost. The modified strategy has to be implemented verified by creating thin stripes from difficult to machine materials. The machined thin strip can be used for making various biomedical implants and devices.</p>		
Work Done till date	:	<ul style="list-style-type: none"> <li>Material procurement, experimentation and data analysis have completed.</li> <li>Two international conferences (Presented and published in conference proceedings)</li> <li>One peer reviewed Journal (Accepted)</li> </ul>
Expected Outcomes	:	<ul style="list-style-type: none"> <li>Two peer reviewed Journals</li> <li>Preliminary results for writing proposal for funding agency.</li> </ul>

  
(Dr S Ragu Nathan, Co-P.I.)



# SREE VIDYANIKETHAN ENGINEERING COLLEGE

(AUTONOMOUS)

Sree Sainath Nagar, Tirupati - 517 102, A.P.

DEPARTMENT OF MECHANICAL ENGINEERING

## STATEMENT OF ACCOUNT FOR THE AMOUNT SACTIONED BY SVET

**Account Name: MIN. THICH SHEET-WEDM-ME**

Sl.No	Description	Name of the Firm	Bill No.	Date	Amount (Rs.)
1.	Towards purchase of emery papers	Natraja Agencies	APO19-0876	13.08.2019	1450.00
2.	Courier	DTDC	C90486225	13.09.2019	180.00
3.	Towards purchase of raw materials	Tirupati Exim, Mumbai	GST 107	05.11.2019	68735.00
4.	Towards purchase of raw materials	Tirupati Exim, Mumbai	GST 110	11.11.2019	27848.00
5.	Towards Attending conference	IIT Indore (COPEN 11)	--	12.12.2019	5966.00
6.	Towards Material Testing and Characterization	Yogi Vemna University	124	22.01.2021	6600.00
7.	Towards Material Testing and Characterization	Commando Lab	CSL/GST/304 5/2021	25.01.2021	2478.00
8.	Towards Material Testing and Characterization	Commando Lab	CSL/GST/304 5/2021	26.03.2021	3186.00
9.	Towards fabrication of fixture for SPIF	Shanmuga Automations	--	18.10.2021	32500.00
<b>Total Expenses</b>					<b>148943.00</b>

Thanking you

Dr. S. Ragu Nathan

(P.I.)

Dr. R. Satya Mehar

**DR. SATYA MEHER**  
Professor & Head  
Dept. of Mechanical Engineering  
Sree Vidyanikethan Engineering College  
TIRUPATI-517 102.

# Tirupati Exim

Importers, Stockist & Suppliers of Ferrous & Non-Ferrous Metals

Tax Invoice  
ORIGINAL

(DUPLICATE FOR TRANSPORTER)

<b>TIRUPATI EXIM</b> 5, RAM NIWAS BUILDING, 2ND FLOOR, FLAT NO. 3, 2ND PARSIWADA LANE, MUMBAI-400004 GSTIN/UIN: 27AAKFT9987H1Z7 State Name : Maharashtra, Code : 27		Invoice No. <b>GST 107</b> Delivery Note	Dated <b>5-Nov-2019</b> Mode/Terms of Payment <b>ADVANCE PAYMENT</b> Other Reference(s)
Consignee <b>SREE VIDHYANIKETAN ENGG.COLLAGE</b> <b>SREE SAINATH NAGAR, A.RANGAMPET,</b> <b>CHANDRAGIRI MANDAL, CHITTOOR,</b> <b>TIRUPATI</b> PAN/IT No : NA State Name : Andhra Pradesh, Code : 37		Supplier's Ref. <b>GST 107</b> Despatch Document No.	Delivery Note Date <b>GST 107</b> Despatched through <b>SPEED POST</b> Destination <b>MUMBAI</b>
Buyer (if other than consignee) <b>SREE VIDHYANIKETAN ENGG.COLLAGE</b> <b>SREE SAINATH NAGAR, A.RANGAMPET,</b> <b>CHANDRAGIRI MANDAL, CHITTOOR,</b> <b>TIRUPATI</b> PAN/IT No : NA State Name : Andhra Pradesh, Code : 37 Place of Supply : Andhra Pradesh		Bill of Lading/LR-RR No. <b>EM026790853IN dt. 5-Nov-2019</b> Motor Vehicle No.	Terms of Delivery

Sl No.	Description of Goods	HSN/SAC	Quantity	Rate	per	Amount
1	TITANIUM SHEET/PLATE-8108	8108	10.500 KG	3,200.00	KG	33,600.00
2	INCONAL SHEET-7505	7505	3.900 KG	6,000.00	KG	23,400.00
	P & F / LOADING CHG (OMS) SALES	7208				57,000.00
	OUTPUT IGST @18%			18 %		1,250.00
						10,485.00
Total:			14.400 KG			<b>Rs. 68,735.00</b>

Amount Chargeable (in words)  
 Indian Rupees Sixty Eight Thousand Seven  
 Hundred Thirty Five Only

Company's PAN : AAKFT9987H

Declaration  
 We declare that this invoice shows the actual price  
 of the goods described and that all particulars are  
 true and correct.

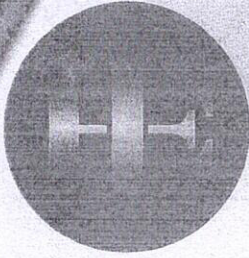
Company's Bank Details  
 Bank Name : KOTAK MAHINDRA BANK LTD.  
 A/c No. : 9811738157  
 Branch & IFS Code : OPERA HOUSE MUMBAI & KKBK0000686  
 for TIRUPATI EXIM

Authorised Signatory

SUBJECT TO MUMBAI JURISDICTION JURISDICTION

This is a Computer Generated Invoice

87



# Tirupati Exim

Importers, Stockist & Suppliers of Ferrous & Non-Ferrous Metals

**Tax Invoice**  
ORIGINAL

(DUPLICATE FOR TRANSPORTER)

<b>TIRUPATI EXIM</b> 5, RAM NIWAS BUILDING, 2ND FLOOR, FLAT NO. 3, 2ND PARSIWADA LANE, MUMBAI-400004 GSTIN/UIN: 27AAKFT9987H1Z7 State Name : Maharashtra, Code : 27		Invoice No. <b>GST 110</b>	Dated <b>11-Nov-2019</b>
<b>Consignee</b> <b>SREE VIDHYANIKETAN ENGG. COLLAGE</b> SREE SAINATH NAGAR, A.RANGAMPET, CHANDRAGIRI MANDAL, CHITTOOR, TIRUPATI PAN/IT No : NA State Name : Andhra Pradesh, Code : 37		Delivery Note	Mode/Terms of Payment <b>ADVANCE</b>
<b>Buyer (if other than consignee)</b> <b>SREE VIDHYANIKETAN ENGG. COLLAGE</b> SREE SAINATH NAGAR, A.RANGAMPET, CHANDRAGIRI MANDAL, CHITTOOR, TIRUPATI PAN/IT No : NA State Name : Andhra Pradesh, Code : 37 Place of Supply : Andhra Pradesh		Supplier's Ref.	Other Reference(s)
		Despatch Document No. <b>GST 110</b>	Delivery Note Date
		Despatched through <b>SPEED POST</b>	Destination <b>MUMBAI</b>
		Bill of Lading/LR-RR No. <b>dt. 11-Nov-2019</b>	Motor Vehicle No.
		Terms of Delivery	

Sl No.	Description of Goods	HSN/SAC	Quantity	Rate	per	Amount
1	INCONAL SHEET-7505	7505	3.850 KG	6,000.00	KG	23,100.00
	P & F / LOADING CHG (OMS) SALES OUTPUT IGST @18%	7208			18 %	500.00 4,248.00
Total			3.850 KG			<b>Rs. 27,848.00</b>

Amount Chargeable (in words) <b>Indian Rupees Twenty Seven Thousand Eight          Hundred Forty Eight Only</b>	Company's Bank Details Bank Name : KOTAK MAHINDRA BANK LTD. A/c No. : 9811738157 Branch & IFS Code : OPERA HOUSE MUMBAI & KKBK0000666	E. & O.E
Company's PAN : AAKFT9987H Declaration We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct.	for TIRUPATI EXIM  Authorised Signatory	

SUBJECT TO MUMBAI JURISDICTION JURISDICTION

This is a Computer Generated Invoice

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**NATARAJA AGENCIES**

299/2, Dr. Nanjappa Road, Coimbatore-641018  
GSTIN: 33AABFN0792R1ZV State Tamil Nadu Code 33  
SR - 2234473, 98949 91006. WH - 4374799, 96003 55582 E-Mail : nacbe@ptools.in

TA

To **THE PRINCIPAL**  
**SREE VIDHYANIKETHAN ENGG COLLEGE, THIRUPATHY**  
Mobile: 9894131389

**CASH BILL**

NO. : **APOS19- 0876**

DATE : **13-8-2019**

ORDER NO. :

D.C. NO. :

CHEQUE NO. :

BANK :

No.	ITEM NAME	HSN	QUANTITY	RATE	S. DED	TAX %	AMOUNT
S1	LATEX W.P.P 230 280 G:2500	68052040	10 Nos	21.00		18	210.00
S2	LATEX W.P.P 230 280 G:1000	68052040	10 Nos	21.00		18	210.00
S3	LATEX W.P.P 230 280 G:0400	68052040	10 Nos	13.00		18	130.00
S4	LATEX W.P.P 230 280 G:0600	68052040	10 Nos	13.00		18	130.00
S5	LATEX W.P.P 230 280 G:0800	68052040	10 Nos	13.00		18	130.00
S6	LATEX W.P.P 230 280 G:1500	68052040	10 Nos	21.00		18	210.00
S7	LATEX W.P.P 230 280 G:2000	68052040	10 Nos	21.00		18	210.00
Sub-Total							1,230.00
OUTPUT IGST @ 18%							1,230.00
ROUND OFF							221.40
ROUND OFF							(-)0.40
ROUND OFF							(-)1.00
<b>TOTAL</b>							<b>1,450.00</b>



SECOND SALES

Goods once sold cannot be taken back. E. & O.E.

INR One Thousand Four Hundred Fifty ONLY

for Nataraja Agencies

*[Signature]*  
PTO

U: UNIVERSAL PRINT F...IMS CBE. P... 2559084, 2...609, 98433...84



84

DTDC Express Limited Regd. Office: No-3, Victoria Road Bangalore - 560047		dtcdc/ite	Pouch Num:	ORIGIN:	DEST:
Non Negotiable Consignment Note / Subject to Bengaluru Jurisdiction. Please refer to all the terms & conditions printed overleaf of this consignment note before tendering a consignment to DTDC.					
Date: / /		Sender's Code:		Pick-up Ref. No:	
1 Sender's (Consignor) Name: _____ Ph: _____ Company Name & Address: _____ City: _____ State: _____ PIN Code: _____			2 Recipient's (Consignee) Name: _____ Ph: _____ Company Name & Address: _____ City: _____ State: _____ PIN Code: _____		
Sender's GSTIN*: _____			Recipient's GSTIN*: _____		
3 Nature of consignment Dox <input type="checkbox"/> Non-Dox <input type="checkbox"/> Total Num Pcs: _____		4 Description of Content _____ Value of Goods _____			
DIM 1: L _____ cm X B _____ cm X H _____ cm X _____ Pcs Actual Wt: _____ kg DIM 2: L _____ cm X B _____ cm X H _____ cm X _____ Pcs Volumetric Wt: _____ kg DIM 3: L _____ cm X B _____ cm X H _____ cm X _____ Pcs Chargeable Wt: _____ kg		The Total Value of consignment for carriage / E-Way bill ₹ _____			
5 Risk Coverage: Owner <input type="checkbox"/> Carrier <input type="checkbox"/>		6 Paper Work Enclosures _____		7 Type of consignment I Please ✓ 1 <input type="checkbox"/> Commercial <input type="checkbox"/> Non-Commercial <input type="checkbox"/>	
9 Mode: Surface <input type="checkbox"/> Air cargo <input type="checkbox"/> Express <input type="checkbox"/>		10 Charges (Amount) _____ a) Tariff (incl. Of PSC + Taxes) b) Value Added Service Charges c) Risk Surcharge d) Total amount (a+b+c) Above charges are inclusive of GST & other taxes if applicable.		8 Value Added Services - Not Available CN Expiry Dt.: _____	
11 I/We declare that this consignment does not contain personal mail, cash, jewellery, contraband, illegal drugs, any prohibited items and commodities which can cause safety hazards while transporting. The declared value of goods is true and accurate.		Mode of Payment: Cash <input type="checkbox"/> Card <input type="checkbox"/> Wallet <input type="checkbox"/>		13 Receiver's Name: _____ Relationship: _____ Ph. No.: _____ Company Stamp & Signature: _____ DD MM YY TIME AM/PM	
Sender's Signature _____ Date: _____ Time: AM/PM		12 Booking Branch / Franchisee Code _____ Courier Signature _____		Consignment Number: _____ *C90486225*	
Track Consignments - Send "TRACK CONSIGNMENT No" to 92300 92300   Email: customersupport@dtcdc.com   www.dtcdc.in   SENDER COPY   Dec 2018 Release					



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**Counterfoil**

आन्ध्रा बैंक Andhra Bank दिनांक /Date 12/11/19

शाखा /Branch SRI VIDYANI KETHAN

के द्वार निधि भेजना है  एबी एक्सप्रेस एबी एक्सप्रेस एबी रिमलटाइस  
 Funds to be sent एनईएफटी AB आरटीजीएस AB  
 through Xpress NEFT Realtime RTGS

Name of the A/c Holder MIN. THICK SHEET - WEDM ME

Sender A/c No 154010100125360

Email Id babusujay@gmail.com Mob 9445481096

हिताधिकारी का नाम Beneficiary Name TIRUPATI EXIM

खाता नंबर BEN A/c No. 9811738157

राशि Amount	12036
कमीशन Commission	
प्रभार Charges	
कुल Total	

बैंक द्वारा दिया गया नं (ग्राहक पृष्ठपत्र के लिए उद्धृत करना है) UTR No. (to be quoted for Customer queries) Given by Bank

पेसिस नंबर Paysys No. \_\_\_\_\_

हिताधिकारी शाखा का आईएफएससी कोड IFSC code of the Beneficiary branch KKBK00000666

रोकडिया / Cashier \_\_\_\_\_

प्रथिकृत हस्ताक्षर / Authorised Signatory \_\_\_\_\_

रजुवा टाम / Round Stamp

**Counterfoil**

आन्ध्रा बैंक Andhra Bank दिनांक /Date 23/10/2019

शाखा /Branch SRI VIDYA NIKETHAN

के द्वार निधि भेजना है  एबी एक्सप्रेस एबी रिमलटाइस  
 Funds to be sent एनईएफटी AB आरटीजीएस AB  
 through Xpress NEFT Realtime RTGS

Name of the A/c Holder MIN. THICK SHEET - WEDM ME

Sender A/c No 154010100125360

Email Id babusujay@gmail.com Mob 9445481096

हिताधिकारी का नाम Beneficiary Name TIRUPATI EXIM

खाता नंबर BEN A/c No. 9811738157

राशि Amount	84547
कमीशन Commission	
प्रभार Charges	
कुल Total	

बैंक द्वारा दिया गया नं (ग्राहक पृष्ठपत्र के लिए उद्धृत करना है) UTR No. (to be quoted for Customer queries) Given by Bank

पेसिस नंबर Paysys No. \_\_\_\_\_

हिताधिकारी शाखा का आईएफएससी कोड IFSC code of the Beneficiary branch KKBK00000666

रोकडिया / Cashier \_\_\_\_\_

प्रथिकृत हस्ताक्षर / Authorised Signatory \_\_\_\_\_

रजुवा टाम / Round Stamp

Dr. Raghunathan, ME Dr. Baburaj



SB Platinum Account	18-75 Years	Accidental Death Cover - Life Cover	2,00,000
ASB Account	05-75 Years	Accidental Cover Only	50,000
ASB Plus Account	05-75 Years	Accidental Cover Only	1,00,000
ABG Account	05-75 Years	Accidental Cover Only	1,50,000
ABJ Account	18-55 Years	Accidental and Natural Death Cover	1,00,000
ABJ Plus Account	18-55 Years	Accidental and Natural Death Cover	2,00,000
ABJ Double Plus Account	18-55 Years	Accidental and Natural Death Cover	5,00,000
ABJ Triple Plus Account	18-55 Years	Accidental and Natural Death Cover	10,00,000
AB Kiddy Bank (Kids Khasana)	1-18 Years	For Child - Accidental Cover	1,50,000
	1-71 Years	For Parent / Guardian Cover	1,50,000
	1 Month - 70 Yrs	Renewable life long	



Deposit Schemes: RD Account, RD Plus Account, Fixed Deposit, Kalpataru Deposit, AB Tax Saver Deposit, AB Freedom Deposit, AB Double Deposit, AB Money-Time Deposit

For Further Information and scheme details please contact the nearest Branch

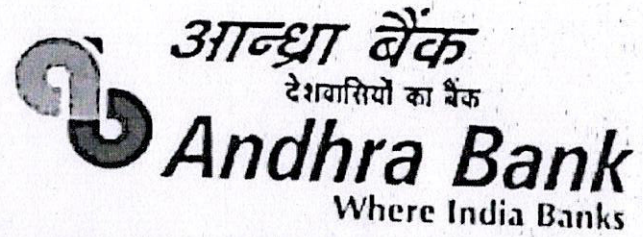
- Andhra Bank is merely a mobilizer / facilitator for the Insurance and is no way liable for any claim. For the name of the Insurer & applicable terms and conditions of insurance, customer may approach the Branch or refer Bank's website [www.andhrabank.in](http://www.andhrabank.in)
- For the applicable rates of interest contact the Branch or refer Bank's website [www.andhrabank.in](http://www.andhrabank.in)

Note: 1. Account holders are requested to maintain sufficient balance in the account for deduction of insurance premium and also verify whether the premium is deducted or not on due dates. Bank will not be responsible for non-deduction of premium due to paucity of clear funds in the account.  
2. While presented for updation of the Pass Book a New Line appear every time at the end of transactions. Acronyms/Abbreviations used are provided in the last page.

शाखा / Branch

1540 SRI VIDYA NIKETHAN

ETIRUPATHI  
CHITTOOR DIST, ANDHRA PRADESH  
ETIRUPATHI  
ANDHRA PRADESH - 517102



पास बुक PASS BOOK

Comp. No. 11302

Br Ph : 0877-2247943  
IFSC CODE: ANDR0001540  
MICR CODE: 517011007  
bm1540@andhrabank.co.in

खाताधारक का नाम / Name of A/c Holder: M/S MIN. THICK SHEET-WEDM-ME

पता / Address: G. VEC. SREE SAI NATH NAGAR, CHANDRAGIRI MD

फोन नंबर / Phone No: CHITTOOR, ANDHRA PRADESH-517102, 919441481096

प्रकार / Mode: A/C JOINTLY

दिनांक / Date: 14-05-2017

खाता नंबर / Ac No: 154010100125360  
Scheme Code: SBGGP  
CUST.ID : 59280398



प्रमाणित

प्रधान कार्यालय, रीठाबाव, हैदराबाद - 500 004



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**निष्क्रिय खाते / Inoperative / Abused / Dormant Accounts :**

अन्यथा बैंक खाते निष्क्रिय हो जाते हैं। यदि 12 माह तक वे होला हो तो, उसे निष्क्रिय खाते के रूप में वर्गीकृत किया जाएगा तथा ऐसे खाते में परिव्यालन की अनुमती नहीं दी जाएगी।  
Bank Accounts, which are inoperative for a continuous period of 12 months will be classified as Dormant. Operations will not be allowed on dormant accounts before they are reactivated.

**व्यक्तिगत तथ्यांक परिवर्तन / About alternations / overwritings on cheque :**

व्यक्तिगत तथ्यांक परिवर्तन के लिए नए खाते के नाम, रकम (दिनांक के अलावा) आदि परिवर्तन करने पर नया चेक जारी किया जाए। "No changes / correction should be carried out on the cheques. For any change in the payee's name, amount (other than date for validation purpose) etc., fresh cheques should be used".

**चेक बुक की सुरक्षा: Cheque book safeguards:**

1. चेक लिखते समय स्थायी स्याही (बालपेन) का प्रयोग करें।  
While writing a cheque, use permanent ink (ball pen).
2. चेक पर आदाता के नाम एवं रकम के बाद शेष बची खाली जगह में एक रेखा खींच दें।  
After payee's name and amount, please draw a line in the space left on the cheque.
3. चेक में सभी ग्यारे लिखने एवं उनके सत्यापन के बाद ही उस पर हस्ताक्षर करें।  
A cheque should be signed after all details filled in and verified.
4. स्पन्डलसीआर पट्टी पर कुछ न लिखें।  
Do not write on the MICR strip.
5. चेक किसी को प्रदान करने से पूर्व ऊपरी बाएं कोने पर दो समानांतर रेखाएं खींच कर चेक को रेखांकित कर दें। रेखांकित चेक का भुगतान किसी अनधिकृत व्यक्ति को होने पर उसे पकड़ना आसान हो जाता है।  
Cross a cheque by drawing two parallel lines at the top left corner of the cheque before handing over. A crossed cheque makes it easy to track any wrong payment to an unintended beneficiary.
6. सुनिश्चित करें कि जब तक चेक के भुगतान हेतु आपके खाते में पर्याप्त शेषराशि है; अन्यथा बैंक द्वारा चेक लौटा दिया जायेगा तथा इस लेनदेन के लिए प्रभार लगाया जाएगा। इसके अतिरिक्त खाते में पर्याप्त शेष रखें बिना चेक जारी करने की स्थिति में आदाता द्वारा आपके विरुद्ध आपराधिक कारवाई भी की जा सकती है।  
Ensure that you have sufficient balance in the account to pay for the cheque you have issued. Bank will return the cheque and will charge you for the transaction. Besides, the payee can take criminal action against you for issuing a cheque without having the funds to pay for it.
7. यदि बैंक खाते सत्यापन हेतु खाली चेक प्रदान करने के लिए कहा जाए; तो चेक प्रदान करने से पहले उस पर एक कोने से दूसरे कोने तक "Cancelled" शब्द लिख दें।  
If asked to give a blank cheque for verification of bank account number, write the word 'Cancelled' diagonally across the cheque before giving it.

DUPLICATE PASS BOOK

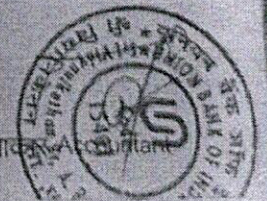
**यूनियन बैंक** Union Bank of India

8 DEC 2021

शाखा BRANCH: SREE VIDYANIKETAN ENGG COLL  
 शाखा का पता Branch Address: ETIRUPATHI  
 शाखा का फोन नं / Branch Phone No.: CHITTOOR DIST, ANDHRA PRADESH TIRUPATI-517102  
 खाते नं, Account No.: 0877-2247949  
 In the Name of: (SAVINGS BANK DRD GEN PUB)  
 नाम Name: M/S MIN. THICK SHEET-MEDM-ME  
 पेशा Occupation: CO SVEC SREE SAI NATH NAGAR  
 पता Address: CHITTOOR  
 शाखा खोलने की तारीख Date of Opening A/c: 24-07-2019  
 नामांकन पंजीकृत / Nomination Registered: हाँ / नहीं N

Issue date: 28-12  
 Sr No: 2  
 ANDHRA PRADESH INDIA  
 IFSC Code : UBIN0815403

Branch Phone No : 0877-2247949



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दिनांक Date	विवरण Particulars	28-10-2020 Page	चौक आयडी SOL ID	चेक नं. CHQ. No.	निकाली गयी राशि DEBIT	जमा की गयी राशि CREDIT	जमाकर्ता के खाते में शेष राशि BALANCE	शेष आयडी INITIAL
12-04-2020	Int. Pd: 010320 to 310320						159.00	57795.30
22-06-2020	CS01 SMS Chrgs/Apr-Jun 2020/919445481					17.70		57777.60
07-07-2020	Int. Pd: 010420 to 300620						431.00	58208.60
20-09-2020	CS01 SMS Chrgs/Jul-Sep 2020/919445481					17.70		58190.90
04-10-2020	Int. Pd: 010720 to 300920						439.00	58629.90
20-12-2020	CS01 SMS Chrgs/Oct-Dec 2020/919445481					17.70		58612.20
04-01-2021	Int. Pd: 011020 to 311220						442.00	59054.20
23-01-2021	A/C MIGRATED TO UBI:154010100125360					59054.20		0.00
23-01-2021	BALANCE TRANSFER			00000			59054.20	
14-03-2021	SMS Charges for March, 2021 Quarter					17.70		59473.50
10-04-2021	154010100125360: Int. Pd: 01-01-2021 to 31-03-2021						437.00	59455.80
13-06-2021	SMS Charges for June, 2021 Quarter					17.70		59900.80
05-07-2021	154010100125360: Int. Pd: 01-04-2021 to 30-06-2021						445.00	59883.10
12-09-2021	SMS Charges for September, 2021 Quarter					17.70		60336.10
04-10-2021	154010100125360: Int. Pd: 01-07-2021 to 30-09-2021						453.00	60318.40
11-12-2021	SMS Charges for December, 2021 Quarter					17.70		

**2017-18**

**SANCTION ORDER**

To,

**Mr.D.N. Kartheek,**

Department of CSSE

Date: 20.07.2017

Sir/Madam,

**Sub:** Sanction of Seed Grant for carrying out Research activities – Reg.

We are glad to inform you that your proposal titled "**smart class time management system.**" for providing **Financial Assistance under Seed Grants** has been accepted for the year **2017-2018** by the Committee constituted for selection of projects and approval has been accorded to release an amount of **Rs. 0.1 lakh** to initiate the research activities.

The Principal Investigator has to present the progress of their project in front of a committee on a quarterly basis. The project should be completed within the prescribed duration and the Expenditure statements and Utilization Certificates have to be submitted during the end of financial year.



**PRINCIPAL**

**PRINCIPAL**

**SREE VIDYANIKETHAN ENGINEERING COLLEGE**

**(AUTONOMOUS)**

Sree Sainath Nagar, A. RANGAMPET  
Chittoor (Dist.) - 517 102, A.P., INDIA.



• Sree Sainath Nagar, Tirupati,  
Andhra Pradesh - 517 102.

• +91-877-2504888

• +91 9160999977

• [www.vidyanikethan.edu](http://www.vidyanikethan.edu)

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**SREE VIDYANIKETHAN EDUCATIONAL TRUST**  
SREE SAINATH NAGAR, - TIRUPATI - 517 102

No: SVET/Advance/SVEC-CSSE/0043/2018

Date: 12.02.2018

To

The Principal,  
Sree Vidyanikethan Engineering College,  
Sree Sainath Nagar,  
Tirupati.

Sir,

Sub: Sree Vidyanikethan Engineering College - Department of Computer Science and Systems Engineering - Accord of Approval for release of advance of Rs.10,000/- for making IoT Project - Reg.

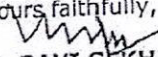
Ref: Your Letter no. Nil, dt. 09.02.2018 from Mr. D N Kartheek, Assistant Professor, Dept. of CSSE, SVEC to The Principal, SVEC.

\* \* \*

With reference to the Note cited, I am to inform you that approval has been accorded to release an amount of ₹ 10,000/- (Rupees Ten Thousand Only) as an advance to meet the expenditure for making IoT Project entitled "Class Time Indicator" in the Computer Science and Systems Engineering Department, Sree vidyanikethan Engineering College by team of 3 members including Mr. D.N. Kartheek, Assistant Professor and 2 nos students in The Department of Computer Science and Systems Engineering, Sree Vidyanikethan Engineering College.

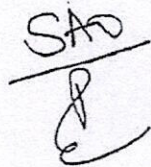
In this connection I am sending herewith the sanctioned advance amount of ₹ 10,000/- by way of Cheque no.007505, dt. 12.02.2018 in favour of "D.N. Kartheek" Assistant Professor, Sree Vidyanikethan Engineering College. You are requested to acknowledge the receipt of the Cheque and handover the same to Mr. D.N. Kartheek, Assistant Professor, Department of Computer Science and Systems Engineering, Sree Vidyanikethan Engineering College and render the account soon after completing the process of Iot Project.

Yours faithfully,

  
(B. RAVI SEKHAR)

Director (Finance & Administration)

Copy to : The Principal, SVEC.  
: The C.A.O., SVET.  
: The HOD, Dept. of CSSE, SVEC  
: Sri D.N.Kartheek, Asst. Prof. Dept. of CSSE, SVEC.  
: The Head Cashier, SVET.  
: The File.

  
S.A.O.

10  
W/DNK  
Balaram

  
12/2/18

Date: 07-04-2018.

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From:

D. N. Kartheek,  
Assistant professor,  
Department of CSSE,  
Sree Vidyanikethan Engineering College,  
A. Rangampet.

To

The Principal,  
Sree Vidyanikethan Engineering College,  
A. Rangampet.

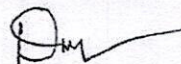
**Sub:** Submission of bills for project activity-reg.

**Ref. No:** SVET/Advance/SVEC - CSSE / 0043 / 2018

This is with respect to completion of project titled "SMART CLASS TIME MANAGEMENT SYSTEM" funded by SVEC management. Initially a sum of Rs.10,000(Ten Thousand Rupees) was released by management of SVEC to the department. In this regard, this is to bring to your notice that the work has been completed and is in deployment stage in the department. In this regard, we are submitting bills for the expenditure. The expenses incurred for the work was 8,272(Eight Thousand Four Hundred and Twenty Two). The remaining amount Rs. 1,728 is returned back along with this letter and bills are also submitted.

Thanking You

Yours Faithfully,



D. N. Kartheek.

forwarded  
B. N. Kartheek



**Bank Payment Voucher**

No. : 1750

Dated : 12-Feb-2018

Particulars	Amount
<b>Account :</b> D.N.Kartheek-Asst Prof- CSSE - Travel Adv	<b>10,000.00</b>
<b>Through :</b> Andhra Bank A/c No:003331043805851	
<b>On Account of :</b> CH.No.007505/12.02.18 Amount paid to 'D.N. Kartheek' towards the advance for IoT Project purpose	
<b>Amount (in words) :</b> INR Ten Thousand Only	
	<b>₹ 10,000.00</b>

Receiver's Signature:

Authorised Signatory

**TAX INVOICE**

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# Invoice Date	: PLJNV20170001345	Place Of Supply	: Andhra Pradesh (37)
Terms	: 03/03/2018		
Due Date	: Due on Receipt		
	: 03/03/2018		

<b>Bill To</b>	<b>Ship To</b>
Charan tej Charan tej D.No 4-19-11D, Sri Krishna Nagar near vaikuntapuram arch, M.R.Palle, AIR By-Pass Road, Tirupati tirupati 517501 Andhra Pradesh India Phone: 8885129986 India	Charan tej D.No 4-19-11D, Sri Krishna Nagar near vaikuntapuram arch, M.R.Palle, AIR By-Pass Road, Tirupati tirupati 517501 Andhra Pradesh India Phone: 8885129986 India India

Item & Description	Qty	Rate	IGST		Amount
			%	Amt	
1 Diffused Red 5mm LED (Pack of 25)	1.00	31.00	18%	5.58	31.00
2 Diffused Yellow Leds	1.00	31.00	18%	5.58	31.00
3 Green LEDs (Pack of 5)	2.00	8.00	18%	2.88	16.00
4 RGB LED Diffused Common Anode	3.00	15.00	18%	8.10	45.00
5 4 Channel Relay Board (5V) for Arduino and Raspberry pi	2.00	230.00	18%	82.80	460.00
6 Stripper	1.00	63.00	18%	11.34	63.00
7 Arduino Uno - R3 (Latest Revision) - Made in Italy	2.00	1340.00	18%	482.40	2,680.00
8 Snap Connector	3.00	10.00	18%	5.40	30.00
9 9V Battery Snap Connector with Power Plug	4.00	20.00	18%	14.40	80.00
10 Propeller - 6cm Dia - Plastic - Four Blades	1.00	15.00	18%	2.70	15.00
11 OLED 0.96" Screen	2.00	365.00	18%	131.40	730.00
12 Buzzer - 3-27 Volt	2.00	25.00	18%	9.00	50.00
13 32 in 1 Screw Toolkit - Screwdriver Set	1.00	195.00	18%	35.10	195.00

<b>Total in Words</b> Rupees five thousand two hundred twenty-two	Sub Total	4,426.00
	IGST 18%	796.68
	Adjustment	(-) 0.68
	<b>Total</b>	<b>₹5,222.00</b>
	Payment Made	(-) 5,222.00
	<b>Balance Due</b>	<b>₹0.00</b>

**Terms & Conditions**  
1. Manufacturer's Limited Warranty applicable as provided by them. We provide Manufacturing Defect Warranty on Generic Components. Any Component/Module received is defective or DOA (Dead on Arrival), please notify us for a replacement within 7 days from receipt of Order Package.  
2. Damages arising due to Customer's negligence or incorrect use or handling of the Component/Module won't be covered under any



## CASH BILL

**WHITE BIRD**

Shop No. 15, SVHSG Complex, Balaji Colony, Tirupati

94

No. 679

Date: 5/03/18

To Principal, SVBC

S.No	Particulars	Qty	Cost	Amount	
				Rs.	Ps.
1	Bread Board (mini, Big)	1		220	00
2	RL 522, RT 3231	1		760	00
3	Li battery (2032)	1		40	00
4	Jumpin wires (large)			60	00
5	1 inch screws, 2-clamps, bolts nuts, washers, spacers			195	00
6	USB connectors, adapters			680	00
7	plywood			200	00
TOTAL				2155	00

Thanking You.... Visit Again....!

  
Signature

forwarded  
Boravendy

**2016-17**

10  
96

Tirupati  
25<sup>th</sup> July 2017

From

Mr. K. Ayyappa Swamy  
Assistant Professor,  
Dept. of EIE  
Sree Vidyanikethan Engineering College  
Tirupati - 517 102.

To

The Principal  
Sree Vidyanikethan Engineering College  
Tirupati - 517 102.

[THROUGH PROPER CHANNEL]

Sir,

Sub: - Expenditure incurred on attending presentations on project proposal submitted to TIDE DST - Reg

Dr. V. R. Anitha, Dr. N. Padmaja of ECE and Mr. K. Ayyappa Swamy of EIE were attended the presentations on project proposal submitted to TIDE DST on 13th July 2017 to be held at Indian National Science Academy (INSA), New Delhi. The expenditure incurred towards the Workshop is as follows:

Sl.No	Description	Amount (Rs)
1.	TA	34,419 /-
2.	Accommodation	4,799/-
4.	Other bills	1,283/-
3.	miscellaneous	2,500/-
	Total	43,001/-
	Advance Received	45,000/-
	Amount to be returned	1,999 /-

Thank you  
Encl: Bills

Yours truly  
*K.A.S.*  
(K. Ayyappa Swamy)

आन्धा बँक  
Andhra Bank

03-बालासागर शाखा - तिरुपति - 517 502  
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Gmail - Confirmation Email



ayyappa swamy <ayyappa.kondra@gmail.com>

Confirmation Email

Yatra.com <donotreply@yatra.com>  
Reply-To: bookings@yatra.com  
To: ayyappa.kondra@gmail.com

Thu, Jun 29, 2017 at 9:50 AM



Manage Your Booking

Dear kondra swamy,

✓ Congratulations! Your flight booking is confirmed.

Booking Reference Number - 2906726113346

Please find your e-ticket attached with this email.



You will earn 1000 eCash for this booking. To know more about eCash and how to redeem it, Click here

Flight Details

	Chennai Wed, 12 Jul, 2017   19:40 Chennai Airport.	New Delhi Wed, 12 Jul, 2017   22:35 Indira Gandhi Airport, T-1D	Airline PNR KGHVTR Duration: 02:55 Economy Non-Refundable
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Passenger Details

Name	Insurance No	Meals	Baggage	Seat No
Mr kondra ayyappa swamy (Adult)	NA	NA	15 kgs (Free)	NA
Ms N Padmaja (Adult)	NA	NA	15 kgs (Free)	NA
Ms V R Anitha (Adult)	NA	NA	15 kgs (Free)	NA

	New Delhi Thu, 13 Jul, 2017   19:55 Indira Gandhi Airport, T-1D	Pune Thu, 13 Jul, 2017   22:00 Lohegaon Airport.	Airline PNR JCDUJH Duration: 02:05 Economy Refundable
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Passenger Details