



Sri Chandrasekharendra Saraswathi Viswa Maha Vidyalaya
Department of Electronics and Communication Engineering

INDENT FORM

Indent No. : ECE11/2016-17/06/03/2017
Name of the Indenter : Dr.J.Vaideeswaran
Designation : Professor & HOD
Department : ECE
Purpose : Software for the new syllabus of
VLSI Design Lab

Budget Provision :
Head of Account : Revenue

Budget Details

Budget Allocation : Rs.
Amount spent so far :Rs.
Bills pending for process :
Indent placed :
Balance Available :
Present Proposal : Rs.

S.No.	Description of the Item	Quantity	Estimated Cost (Rs.)
1.	IC Nanometer Design	1(50 Users)	3,60,000
2.	Design, Verification and Test	1(50 Users)	3,60,000
TOTAL			7,20,000

Indenter Note (if necessary)

1. The above item(s) is/are proprietary items, justification & supplier names attach herewith.
2. The above items are additional requirement, stock on hand details furnished herewith.

Signature of Indenter

Date: 07 MARCH 2017

Remarks & Recommended By:
Dean

1. CoreEI Technologies is decided

Approved by

Registrar / Vice-Chancellor

Supplier List

1	CoreEL Technologies India Pvt.Ltd. 21, First block, 7 th Main, Koramangala, Bangalore - 560 034. Ph: 918041970400 Email: ganesh.n@coreel.com,sadiya.a@coreel.com
2	Trident Tech Labs Pvt.Ltd. "Mamanji Centre" S-7, 3 rd Floor, Thiru-vi-ka Industrial Estate, Guindy, Chennai - 32,Ph:044-43358484. Email: v.barani@tridenttechlabs.com
3	Entuple Technologies Pvt. Ltd 2730,80 Feet Road,HAL 3 rd Stage, Indira Nagar, Bangalore - 560 038 Ph: 080-30723692



Sri Chandrasekharendra Saraswathi Viswa Maha Vidyalaya University

INDENT FORM

Indent No. : ECE01/2017-18/21.06.2017

Budget Provision : Yes

Name of the Indenter : Dr.J.Vaideeswaran

Head of Account : Capital (Lab Equipments)

Designation : Professor & HOD

Budget Details

Department : ECE

Budget Allocation	: Rs. /-
Amount spent so far	: Nil,-
Bills pending for process	: Nil,-
Indent placed	: Nil,-
Balance Available	: Rs /-
Present Proposal	: Rs. /-

Purpose : To Replace fault equipments.

S.No	Description of the item	Quantity (Nos)	Estimated Cost (Rs)
1	Optical Power Meter(Sciencetech Make, Model No.ST2551) Range : 0 dBm to -60 dBm Display : 12 mm LCD Wavelength : 660 & 950 nm	1No	Rs11,000.00
2	Table Fan - 250mm Non oscillation metal type,65w(Cooling fan for Microwave bench)	2Nos	Rs.3,600.00
TOTAL			Rs. 14,600.00/-

Indenter Note (if necessary)

1. The above item(s) is/are proprietary items, justification & supplier names attach herewith.
2. The above items are additional requirement, stock on hand details furnished herewith.

Remarks & Recommended By:
Dean

J. Vaideeswaran
21 06 2017
Signature of Indenter
Date:

Approved by

Registrar / Vice-Chancellor

Supplier list : 1. M/s.Bestmach,Plot No.2/4,J.S.Tower,G4 block - A,Avvaiyar street, Meenambakkam, Chennai - 27,Ph.9381023045,044 - 22561686.

2. M/s.Sciencetech Technologies Pvt.Ltd,94 101, Pardeshipura, Electronic Complex, Indore - 452010.
Email: spawar@sciencetech.bz, (+91) 9755591500



Sri Chandrasekharendra Saraswathi Viswa Maha Vidyalaya
Department of Electronics and Communication Engineering

INDENT FORM

Indent No. : ECE13/2016-17/01.02.2017

Budget Provision :

Name of the Indenter : Dr.J.Vaideeswaran

Head of Account : Revenue

Designation : Professor & HOD

Budget Details

Department : ECE

Budget Allocation	: Rs.
Amount spent so far	:Rs.
Bills pending for process	:
Indent placed	:
Balance Available	:
Present Proposal	: Rs.1,10,000/-

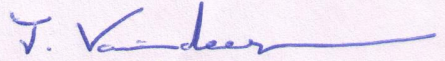
Purpose : Communication kits for the new
Syllabus of Analog communication Lab

S.No.	Description of the Item	Quantity	Estimated Cost (Rs.)
1	Amplitude Modulation & Demodulation Kit	02	17000
2	Frequency Modulation & Demodulation Kit	02	25000
3	SSB Modulation & Demodulation Kit	02	19000
4	DSB - SC Modulation & Demodulation Kit	02	19000
5	IF - Tuning Amplifier Kit	02	10000
6	PAM ,PWM&PPM Modulation & Demodulation Kit	02	20000
TOTAL			Rs.1,10,000

Indenter Note (if necessary)

1. The above item(s) is/are proprietary items, justification & supplier names attach herewith.
2. The above items are additional requirement, stock on hand details furnished herewith.

Remarks & Recommended By:
Dean


Signature of Indenter
Date: 01.02.2017

Approved by

Registrar / Vice-Chancellor



☎ : 044 - 27264301, 27264308, 27264293
 Fax : 044 - 27264285

SRI CHANDRASEKHARENDRASARASWATHI VISWA MAHAVIDYALAYA

(Declared as Deemed to be University Established Under Section 3 of the UGC Act 1956, Govt. of India)
 Enathur, Kanchipuram - 631 561.

PURCHASE ORDER / WORK ORDER

No. P.O/9/2017-18/ Dec 68

Date 13.4.2017

M/s. CoreEL Technologies (I) Pvt. Ltd.,

M/s. 21, 1st Block, 7th Main,

Koramangala, Bangalore - 560 034.

UPT/16-17/South/MG/SV/950-Discounted 7.4.2017

Sir / Madam

Your quotation No. _____ dt _____ is accepted and we place the purchase / work order on you as per Conditions detailed overleaf for :-

S.No	Description of the Items	Quantity	Rate		Rate	
			Rs.	P	Rs.	P
	Purchase of Software - ECE					
	Mentor Graphics HEP category 1-IC Design/ Custom IC Design - Back end - 50 User License	1				
	Mentor Graphics HEP category 2 - Design & Verification - front end - 50 user license	1			6,50,000	00
	TOTAL				6,50,000	00
	Terms & Conditions					
	Payment: 100% advance along with the PO					
	Tax: Extra					
	Other terms as per your quotation					

Kindly acknowledge the receipt of this order and confirm your acceptance by signing & returning to us the Vendor acknowledgement copy enclosed.

- To : 1. Vendor
 Acknowledgement
- Cc to : 2. Finance
 3. Indentor

Thanking you
 Yours Sincerely
 Signature
 Name

REGISTRAR



BESTMACH
— Innovative Instruments & Educational Trainers —

TIN No:33120845623

CST No: 1016858/03.11.10 Area code:043

2 / 4, J.S Tower, G-4 Block A, Avvaiyar Street
Meenambakkam, Chennai - 600027

Tel / Fax : 044-22561686, Hp : 93810 23045 & 94441 8058

TAX INVOICE

Bill To
The Dean,
SCSVMV University
Dept. OF ECE
Enathur
Kanchipuram Tamilnadu
631561

Invoice# BM/INV/17-18/009
Invoice Date 31/08/2017
Due Date 10/09/2017
P.O.# 34/17-18/D0869

Place Of Supply: Tamil Nadu (33)

S. No	Make / Model	Item / Description	Qty	Rate	CGST	SGST	Amount B/F Tax
1	Optical Power Meter -2551 SKU : 2551 HSN: 9031	Suitable for SCIENTECH optical trainer , Measures two wavelengths(660 to 950 nm), Measurement range :0 dbm to -60 dbm and auto reading(SMA connector)	1.00 No	10,135.6 0	912.20 9%	912.20 9%	10,135.60
2	MTI / FAN SKU : MWFAN HSN: 9031	COOLING FAN WITH STAND	2.00 No	974.60	175.43 9%	175.43 9%	1,949.20

Items in Total 3.00

Thanks for your business. We look forward your valuable enquiry and further business...

Total B/F Tax	12,084.80
CGST (9%)	1,087.63
SGST (9%)	1,087.63
Adjustment	(-) 0.06
Net Total	Rs.14,260.00

Total In Words: *Rupees fourteen thousand two hundred sixty*

BANK / NEFT details

Account Name : BESTMACH
Ac No : 3956639277
IFSC : CBIN0283176
GSTIN : 33AKFPM8417L1ZW

Bank : Central Bank Of India
A/c Type : OD
PAN : AKFPM8417L

For BESTMACH

R. [Signature]
Proprietor

GSTIN : 33AKFPM8417L1ZW



TAX INVOICE



OHM TECHNOLOGIEES

#9/243,SRI VIJAYALAKSHMI STREET, AMBAL NAGAR,KOVUR, CHENNAI - 600 128.

PHONE: +91-8189947105, MOBILE: 9884239763

E-mail: ohmtechnologies@gmail.com, ohm_tech2003@yahoo.co.in

GSTIN NO: 33AFVPV5199P1Z1

I E CODE: 0414042743

Invoice No.: 0167
Date: 06.02.2018



PO No.: THROUGH EMAIL
PO Date: 10.01.2018
Mode of Transport: By Road
Place of Supply: ENATHUR

Details of Receiver (Billed to)
M/s. SRI CHANDRASEKHARENDRA SARASWATHI VISWA
MAHAVIDYALAYA ENATHUR,
KANCHIPURAM 631561
PH: +91 9994237853

Details of Consignee (Shipped to)
M/s. SRI CHANDRASEKHARENDRA SARASWATHI VISWA
MAHAVIDYALAYA ENATHUR,
KANCHIPURAM 631561
KANCHIPURAM 631561

S.No	Description of Goods	HSN Code	Qty	Rate	Total	DISC %	DISC. AMT	Taxable value	CGST		SGST		IGST			
									Rate	Amount	Rate	Amount	Rate	Amount		
1	INT. CIR. - AM TRAINER	8542	2	3450	6900	0	0	6900	9	621.00	9	621.00	0	0.00		
2	INT. CIR. - FM TRAINER	8542	2	3450	6900	0	0	6900	9	621.00	9	621.00	0	0.00		
3	INT. CIR. - SSB TRAINER	8542	2	8450	16900	0	0	16900	9	1521.00	9	1521.00	0	0.00		
4	INT. CIR. - DSB TRAINER	8542	2	3450	6900	0	0	6900	9	621.00	9	621.00	0	0.00		
5	INT. CIR. - AGC TRAINER	8542	2	3450	6900	0	0	6900	9	621.00	9	621.00	0	0.00		
6	INT. CIR. - PAM TRAINER	8542	2	3450	6900	0	0	6900	9	621.00	9	621.00	0	0.00		
7	INT. CIR. - PPM TRAINER	8542	2	3450	6900	0	0	6900	9	621.00	9	621.00	0	0.00		
8	INT. CIR. - PWM TRAINER	8542	2	3450	6900	0	0	6900	9	621.00	9	621.00	0	0.00		
									0	65200.00		5868.00		5868.00		0.00

Invoice Total (In Words) : ZERO LAKH SEVENTY SIX THOUSAND NINE HUNDRED THIRTY SIX ONLY.
TOTAL NUMBERS OF PACKAGES 16

Total	76936.00
Transport Charges	0.00
Rounded Off	0.00
Invoice Total	76936.00

BANK DETAILS:
BANK: STATE BANK OF INDIA
BRANCH: PORUR
A/c. No.: 34328574675
IFSC CODE: SBIN0005200



TERMS OF SALE:
1) Goods once sold will not be taken back or exchanged. 2) Seller is not responsible for any loss or damaged of goods in transit. 3) Buyer undertakes to submit prescribed ST declaration to sender on demand. Disputes if any will be subject to Chennai jurisdiction

Received the above materials in good condition
Seal / Signature:
Name & Mobile No.:
Date:

For OHM TECHNOLOGIEES

Authorised Signatory

Department of Computer Science and Engineering

Research project

Controlling Umbrella through Internet

This project is about to control umbrella through internet or remote from anywhere in the world. For this we used NODEMCU it is a arduino based wifi micro controlled having various GPIO pins and many more. It also used to connect with any wifi network easily.

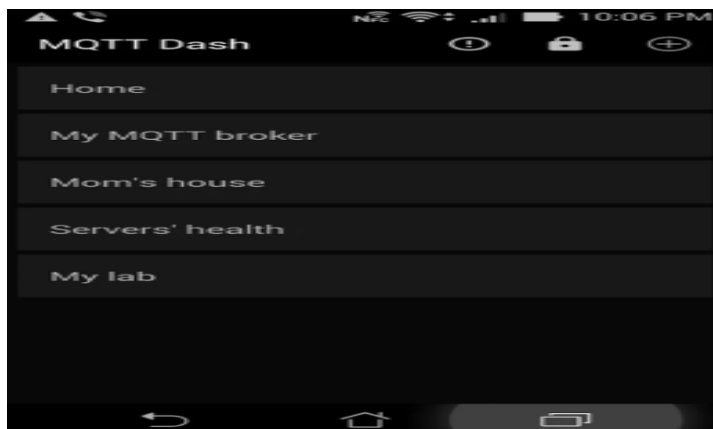
This project require the following components

1. NodeMCU microcontroller
2. DC motor with 5v
3. DC adapter to supply volts to the dc motor and microcontroller
4. Umbrella
5. Plastic gear to hit the stat button open camera
6. Handling plates to hold all the components
7. Mobile app with MQTT enable software app to on and off the umbrella

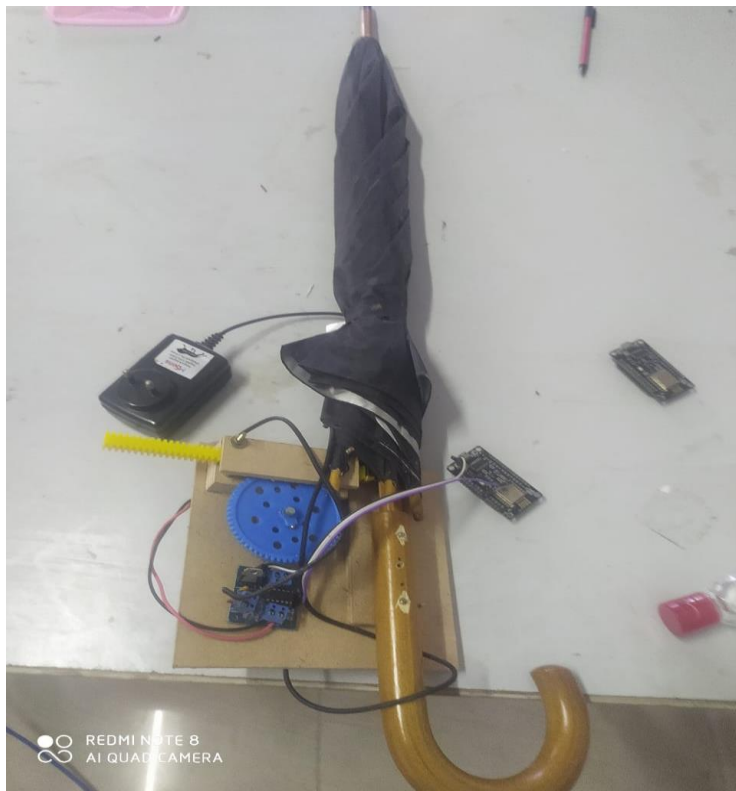
Working

1. Connect NodeMCU with campuswifi through username and password
2. Write the code to receive command from your mobile through internet connection
3. Read the command through serial
4. Check the serial command received
5. If it's one means it send to the GPIO pin of the NodeMCU
6. Then the rotate the dc motor receive the signal from the GPIO and it rotate it and hit the gear rod on the umbrella button
7. Then the umbrella will open.

App used in the mobile



Complete Setup



Cost spent for this project: Rs.18,000

Vi Microsystems Pvt. Ltd.

WORKS:

Plot No. 75, Electronics Estate, Perungudi,
Chennai - 600 096.,
Phone : 24961842,24961852 Fax :24961536
Email : sales@vimicrosystems.com



Name THE REGISTRAR

Address SRICHANDRASEKHARENDRA SARASWATHI
VISWA MAHAVIDYALAYA
ENATHUR
KANCHEEPURAM. - 631 561

GSTIN : 33AAACV0909J1ZJ

Our Ref. : V18/QTN/1588
Our Ref Date : 28-Nov-2018
DateOfPreparation : 15-Apr-2019 , 5.00PM
Time & Date of Removal :-
Mode of Transport :-
RG 23A PII/PLA S.No :-

INVOICE NO : F/0002
DATE : 15-Apr-2019
DC. No : F/0002
Dc Date : 15-Apr-2019
PO. No : PO.149/2018-19
Po Date : 07-Jan-2019

SNO	ITEM DESCRIPTION	HSN	QTY	RATE	AMOUNT	SGST		CGST		TOTAL
						%	AMT	%	AMT	
1	ARM-7 LPC 2148 EMBEDDED BOARD (VI-2148 SB)	9023	5	13,500.00	67,500.00	9.0	6,075.00	9.0	6,075.00	79,650.00
TOTAL			5	13,500.00	67,500.00	6,075.00	6,075.00	79,650.00		

BASICVALUE	67,500.00
SGST @ 9 %	6,075.00
CGST @ 9 %	6,075.00
SUB TOTAL	79,650.00
TOTAL VALUE	79,650.00

Total Value (In Words)

Seventy Nine Thousands Six Hundred Fifty only

Certificate that the particulars given above true and correct and the amount indicated represents the price actually charged and that there is no flow of additional-consideration directly or indirectly from the buyer.
Subject to chennai Jurisdiction.

for Vi Microsystems Pvt. Ltd.



[Signature]
Authorised Signatory

E.& O.E.

Checked



SRI CHANDRASEKHARENDRASARASWATHI VISWA MAHAVIDHYALAYA
DEPARTMENT OF ELECTRICAL AND ELECTRONICS

NAME OF THE LAB: EMBEDDED SYSTEM DESIGN –BEEF186P80

The Embedded system design Laboratory for B.E –Electrical and Electronics Engineering was setup during 2019-2020. The laboratory equipments were developed by the students of Department of EEE and faculty members for research purpose.

Number of kits developed: 8 Nos.

1. LPC 2148 ARM Micro controller Development Board – 4 Nos.
2. Arduino Development Board – 4 Nos.

Total Amount: Rs.43,000/-

List of Experiments:

1. PROGRAM TO ACCESS THE LED
2. PROGRAM TO READ SWITCH STATUS AND DISPLAYED IN POINT LEDS.
3. INTERFACE THE BUZZER
4. WAVEFORM GENERATION USING 10 BIT DAC
5. PULSE WIDTH MODULATION (PWM) WAVEFORM GENERATION
6. TRANSMISSION FROM KIT AND RECEPTION FROM PC USING SERIAL PORT (UART)
7. TEMPERATURE SENSOR (LM 35) INTERFACE
8. STUDY OF EXTERNAL INTERRUPTS
9. RELAY INTERFACE
10. INTERFACING OF STEPPER MOTOR

Students Benefited:

- 2020-2021 Batch : 62 Nos.
- 2021-2022 Batch : 19 Nos.

NAME OF THE LAB: POWER SYSTEM PROTECTION AND POWER

QUALITY LAB - MPSF192P50

The Power System Protection and Power Quality Laboratory for M.E – Power system was set up during 2019-2020. The laboratory equipments were developed by the students of Department of EEE and faculty members for research purpose.

Number of kits developed : 12

Amount : Rs.2,95,000/-

➤ LIST OF EXPERIMENTS:

POWER SYSTEM PROTECTION LAB

1. 3.Ferranti effect of Single phase Transmission Line
2. 4. OV/UV Under Frequency Relay
3. 5. Transformer Protection simulator
4. 6. M/C Based Over Current Relay
5. 7. M/C Based Earth Fault Relay
6. 8. Motor Protection Relay Simulator
7. 9. Automatic Power Factor Correction Relay Trainer
8. 10. Single phase Cascaded MLI (Multilevel Inverter) Trainer
9. 11. Generation of SPWM pulses for 3 phase Voltage Source Inverter
10. 12. Microcontroller based Reverse power Relay

POWER QUALITY LAB

1. 1.Single Phase TCS Simulator
2. Single phase FC-TCR Simulator

➤ **STUDENTS BENEFITED:**

2019-2020: 7

2020-2021: 11

2021-2022: 35

Encl: Invoice

PROFORMA INVOICE



இதனை இதனால் இவன்முடிக்கும் என்றாய்ந்து
அதனை அவன்கண் விடல்.



POWER LAB INSTRUMENTS
Plot.No.202B (1st Floor), 2nd Main Road, Burma Colony,
Perungudi, Chennai 600 096. Tamil Nadu, India.
Cell: 9445383014, 9445481054, Ph:044 42347878.
Mail: powerlabinstruments@gmail.com
Web: www.powerlabinstruments.com.
GSTIN : 33AAMFP1958N1ZO.

Buyer/Customer Name:

The Head of the Department,
Department of Electrical & Electronics Engineering
Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya
(Deemed to be University)
Kancheepuram, Tamilnadu

Invoice Number : 085/2017-18
Invoice Date : 26.03.2018
Buyer's Order Reference : By mail
Buyer's Order Date : 24.02.2018

Dispatch Document Number & Date **Mode of dispatch** By Road **Dispatched to** EEE-SCSVMV **HSN CODE :** 9023

S.N	Description of Goods	Qty	Rate	Amount
01	Single Phase TCS Simulator	1	25,000.00	25,000.00
02	Ferranti effect of Single phase Transmission Line	1	25,000.00	25,000.00
03	OV/UV Under Frequency Relay	1	25,000.00	25,000.00
04	Transformer Protection simulator	1	25,000.00	25,000.00
05	Single phase FC-TCR Simulator	1	25,000.00	25,000.00
06	M/C Based Over Current Relay	1	25,000.00	25,000.00
07	M/C Based Earth Fault Relay	1	25,000.00	25,000.00
08	Motor Protection Relay Simulator	1	25,000.00	25,000.00
09	Automatic Power Factor Correction Relay Trainer	1	25,000.00	25,000.00
10	Single phase Cascaded MLI (Multilevel Inverter) Trainer	1	25,000.00	25,000.00
11	Generation of SPWM pulses for 3 phase Voltage Source Inverter	1	20,000.00	20,000.00
12	Microcontroller based Reverse power Relay	1	25,000.00	25,000.00

Amount Chargeable (in Words)

Rupees Two lakhs Ninety five thousand Only.

Declaration : We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct. All disputes subject to Chennai Jurisdiction only.

Sub Total	2,95,000.00
SGST@ 9%	Included
CGST@ 9%	Included
Grand Total	2,95,000.00

Customer Signature with Seal

For POWER LAB INSTRUMENTS



Authorised Signatory



Sri Chandrasekharendra Saraswathi Viswa Maha Vidyalaya

file
2
9/2

INDENT FORM

Indent No. : ECE12 /2018-19/04.02.2019

Budget Provision : Yes

Name of the Indenter : Prof.V.Swaminathan

Head of Account : Capital (Lab Equipments)

Designation : HOD

Budget Details

Department : ECE

Budget Allocation	: Rs. /-
Amount spent so far	: Nil,-
Bills pending for process	: Nil,-
Indent placed	: Nil,-
Balance Available	: Rs /-
Present Proposal	: Rs. 1,06,000 /-

Purpose : As per AICTE/Student Strength

S.No	Description of the item	Quantity (Nos)	Estimated Cost (Rs)
1.	KLYSTRON mount with tube Model . X – 2051,Frequency Range:8.2 to 12.4 GHZ Wave guide type:90,Flange type:B9	02	34,000
2	Wave guide detector Mount Model X – 4051,Frequency Range:8.2 to 12.4 GHZ	02	7,000
3	Frequency meter Direct Reading Type Model . X – 4055,Frequency Range:8.2 to 12.4 GHZ	02	20,000
4	Gunn oscillator	01	5,000
5	PIN modulator with suitable cable	01	3,000
6.	Optical power meter (ST 2551) Wave length 950nm & 650nm	01	17,000
7.	PCM Modulation & Demodulation Kit	01	20,000
TOTAL			1,06,000 +18%GST

Indenter Note (if necessary)

1. The above item(s) is/are proprietary items, justification & supplier names attach herewith.
2. The above items are additional requirement, stock on hand details furnished herewith.

Remarks & Recommended By:

Dean

Signature of Indenter

Date:

Swaminathan
9/2

Approved by

Registrar / Vice-Chancellor

Supplier List:

1. M/s. Indus Engineering Enterprises,First floor, 88(New No. 79), moore street, Chennai – 600 001.

Ph.044-25248390, 25264395.

2. M/s. VI Micro systems Pvt. Ltd. No:75 ,Electronics Estate,Perungudi,chennai-600 096.Phone: +91-44 2496 1842,2496 1852

sales@vimicrosystems.com

3. Lab Electronics,Old no. 27, New no. 5, 10th Avenue, Ashok Nagar,Chennai -600083,Ph. Phone: +91 44 24892839, email. labelectronics85@gmail.com

☎ : 044 - 27264301, 27264308, 27264293
Fax : 044 - 27264285



SRI CHANDRASEKHARENDRASARASWATHI VISWA MAHAVIDYALAYA

(Declared as Deemed to be University Established Under Section 3 of the UGC Act 1956, Govt. of India)
Enathur, Kanchipuram - 631 561.

PURCHASE ORDER / WORK ORDER

Date Dr. GSK
2
4.7.2019
1517

No. P.O.29/2019-20/ D0214

M/s. M/s. Indus Engineering Enterprises,

1st Floor, 38, (New #79), Moore Street,

Chennai - 600 001

Sir / Madam IEE/QTN/4717 30.4.2019
Your quotation No. _____ dt _____ is accepted and we place
the purchase / work order on you as per Conditions detailed overleaf for :-

S.No	Description of the Items	Quantity	Rate		Rate	
			Rs.	P	Rs.	P
	Purchase of Lab Equipment for ECE Dept. As per list enclosed				1,18,300	00
	TOTAL				1,18,300	00
	Terms & Condition: Payment:- 50% advance balance against delivery Tax 18% Extra					

Kindly acknowledge the receipt of this order and confirm your acceptance by signing & returning to us the Vendor acknowledgement copy enclosed.

- To : _____
Cc to : _____
1. Vendor Acknowledgement
 2. Finance
 3. Indentor
 4. Purchase

Thanking you
Yours Sincerely
Signature : _____
Name : _____
Designation : _____

G. Sankar
5/7
REGISTRAR
SCSVMV
(P.T.O.)

DISPATCHED 04.07.2019

By Co-ordinator

1st Floor, 38, (New #79), Moore Street, Chennai - 600 001.
 Off : 044-25248390, Telefax : 044-25264395
 e-mail : indusomska@sancharnet.in, indus_38@rediffmail.com



TAX INVOICE

TO
 THE REGISTRAR
 SCSVMV UNIVERSITY
 ENATHUR,
 KANCHIPURAM - 631 561.

Invoice No. : IEE/19-20/053	Date : 01.08.2019
Order No: P.O.29/2019-20/D0214 Dated : 04.07.2019	Our Ack No:IEE/QTN/4717 Dated : 30.04.2019
Deliver Challan No: IEE/19-20/039	Date : 01.08.2019
Dispatched by : Direct	
Document Through	

S.NO.	DESCRIPTION	HSN/SAC	GST 18%	QTY	UNIT PRICE		AMOUNT	
					Rs.	P.	Rs.	P.
1.	KLYSTRON MOUNT WITH KLYSTRON TUBE			2 NOS.	20,500	00	41,000	00
2.	WAVE GUIDE DETECTOR WITH MOUNT			2 NOS.	4,500	00	9,000	00
3.	DIRECT READING FREQUENCY METER			2 NOS.	14,000	00	28,000	00
	GUNN OSCILLATOR			1 NO.	17,000	00	17,000	00
5.	PIN MODULATOR WITH BNC - BNC CABLE			1 NO.	7,300	00	7,300	00
6.	OPTICAL POWER METER MODEL: BPM - 101			1 NO.	16,000	00	16,000	00
	TOTAL						1,18,300	00
	ADD SGST @ 9%						10,647	00
	ADD CGST @ 9%						10,647	00
	GRAND TOTAL						1,39,594	00
	E. & O.E....						GRAND TOTAL	1,39,594 00

*Received above items
 & Warranty good on
 2/8/19
 [Signature]
 22/8/19*

Rupees: ONE LAKH THIRTY NINE THOUSAND FIVE HUNDRED AND NINETY FOUR ONLY.

This is to certify that the goods on which the Sales Tax has been charged is not more than what is payable under the provision of relevant Act of the rules made there under. Certified further We are registered as dealers in the State of Tamil Nadu under local Registration No. 0000428/96-97 and CST No.65390, Dt. 8-5-96 for the purpose of Sales Tax.	Good once sold cannot be taken back. Our responsibility ceases immediately after goods are delivered to the Carriers. Interest @ 24% pa. Will be charged extra if bill is not paid within 7 days of presentation Subject to Madras Jurisdiction only.	TNGST:0000428/96-97 Area Code: 001 CST.No.65390 / Dt : 8-5-96. TIN NO: 33270000428 GSTIN: 33AAIPM6263F2ZQ	For Indus Engineering Enterprises
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Sri Chandrasekharendra Saraswathi Viswa Maha Vidyalaya

INDENT FORM

Indent No. : ECE13 /2018-19/04.02.2019

Budget Provision : Yes

Name of the Indenter : Prof.V.Swaminathan

Head of Account : Capital (Lab Equipments)

Designation : HOD

Budget Details

Department : ECE

Purpose : As per AICTE/Student Strength

Budget Allocation	: Rs. /-
Amount spent so far	: Nil,-
Bills pending for process	: Nil,-
Indent placed	: Nil,-
Balance Available	: Rs /-
Present Proposal	: Rs. 1,45,000/-

S.No	Description of the item	Quantity (Nos)	Estimated Cost (Rs)
1.	Spectrum analyser	01	90,000
2	PLL multiplier Kit	01	15,000
3	PLL synthesizer Kit	01	10,000
4	Instrumentation amplifier kit	01	10,000
5	Colpitt's oscillator kit(Using transistor)	01	5,000
6.	Hartley oscillator kit	01	5,000
7.	Maxwell Bridge kit	01	5,000
8.	Schering's bridge kit	01	5,000
TOTAL			1,45,000+18%GST

Indenter Note (if necessary)

1. The above item(s) is/are proprietary items, justification & supplier names attach herewith.
2. The above items are additional requirement, stock on hand details furnished herewith.

Signature of Indenter

Date: 1/4/2

Remarks & Recommended By:

Dean

Approved by

Registrar / Vice-Chancellor

Supplier List :

1. M/s. Allied Electronics Company, Chennai
2. Pantech Prolabs India Pvt Ltd.No.8, Natarajan Street,Nookampalayam Road, Chemmencherry, Sholinganallur, Chennai-600 119.Phone: 91 - 72000 84084, sales@pantechsolutions.net, enquiry@pantechsolutions.net
- 3.M/s.Bestmach,2/4, J. S. Tower, G-4, Block A, Avvaiyar Street, Meenambakkam, Chennai - 600027, Tamil Nadu, India ph: 08042780260
4. M/s.Agilent technologies india Pvt. Ltd,No.1, Olympia tech park,regus Olympia,sidco industrial estate, guindy, Chennai - 32 ph. 044 - 42994085,42994311(For S.No:1)



☎ : 044 - 27264301, 27264308, 27264293
 Fax : 044 - 27264285

SRI CHANDRASEKHARENDRASARASWATHI VISWA MAHAVIDYALAYA
 (Declared as Deemed to be University Established Under Section 3 of the UGC Act 1956, Govt. of India)
 Enathur, Kanchipuram - 631 561.

PURCHASE ORDER / WORK ORDER

No.

Date 4.7.2019

P.O.30/2019-20/ DD 215 M/s. Bestmach,
 M/s. _____

2/4, JS Tower, G4 Block-A Awalyar
 Street,
 Meenambakkam, Chennai - 600 027

Sir / Madam

BM/QUOT/19-20/052

07.05.2019

Your quotation No. _____ dt _____ is accepted and we place
 the purchase / work order on you as per Conditions detailed overleaf for :-

S.No	Description of the Items	Quantity	Rate		Rate	
			Rs.	P	Rs.	P
	Purchase of Lab Equipment for ECE Dept. As per list enclosed				1,91,579	00
	TOTAL				1,91,579	00
Terms & Condition: Payment:- 50% advance balance against delivery GST: Included						

Kindly acknowledge the receipt of this order and confirm your acceptance by signing & returning to us the Vendor acknowledgement copy enclosed.

- To : 1. Vendor Acknowledgement
 Cc to : 2. Finance
 3. Indentor
 4. Purchase

Thanking you
 Yours Sincerely
 Signature
 Name
 Designation

[Handwritten Signature]
 5/7/19

REGISTRAR
 SCSVMV

(P.T.O.)

DISPATCHED On 5/7/19

By comr

TIN : 33AKFPM8417L1ZW

TAX INVOICE

Bill To

The HOD,

SCSVMV University

Dept. OF ECE

Enathur, Kanchipuram, Tamilnadu, 631561

Invoice#

BM/INV/19-20/084

Invoice Date

04/11/2019

P.O.#

P.O No:30 / 2019-20 /
D0215 date 4-7-19

Place Of Supply: Tamil Nadu (33)

S. No	Make / Model	Item / Description	HSN	Qty	Rate	CGST	SGST	Amount B /F Tax
1	RIGOL / DSA 815-TG SKU : 815	RIGOL - Spectrum Analyzer 9 kHz to 1.5 GHz , Tracking Generator 100 kHz to 1.5 GHz , S.No: DSA8A213900980	9030	1.00 No	131,10 0.00	11,799 .00	11,799 .00	131,100.0 0
2	BEST MACH / PLL SKU : BH-PLL	Frequency multiplexer Trainer Frequency doubler, tripler and synthesizer	9023	1.00 No	5,890. 00	530.10	530.10	5,890.00
3	MARS / Instrumentation Amplifier Trainer Kit SKU : ME645	Instrumentation Amplifier Trainer Kit	9023	1.00 No	5,700. 00	513.00	513.00	5,700.00
4	MARS / Colpitt's oscillator Trainer Kit SKU : ME662	Colpitt's oscillator Trainer Kit	9023	1.00 No	2,517. 50	226.58	226.58	2,517.50
5	MARS / Hartley Oscillator Trainer Kit SKU : ME661	Hartley Oscillator Trainer Kit	9023	1.00 No	2,517. 50	226.58	226.58	2,517.50
6	MARS / Maxwell Bridge Trainer Kit SKU : ME2204E	Maxwell Bridge Trainer Kit	9023	1.00 No	6,745. 00	607.05	607.05	6,745.00
7	MARS / Schering Bridge Trainer Kit SKU : ME2201E	Schering Bridge Trainer Kit	9023	1.00 No	7,885. 00	709.64	709.64	7,885.00

Thanks for your business. We look forward your valuable enquiry and further business...

Total B/F Tax 162,355.00

CGST (9%) 14,611.95

SGST (9%) 14,611.95

Rounding 0.10

Net Total Rs.191,579.00

Total In Words: **Rupees One Lakh Ninety-One Thousand Five Hundred**





“Arduino based RF controlled vehicle for chess coin movement”

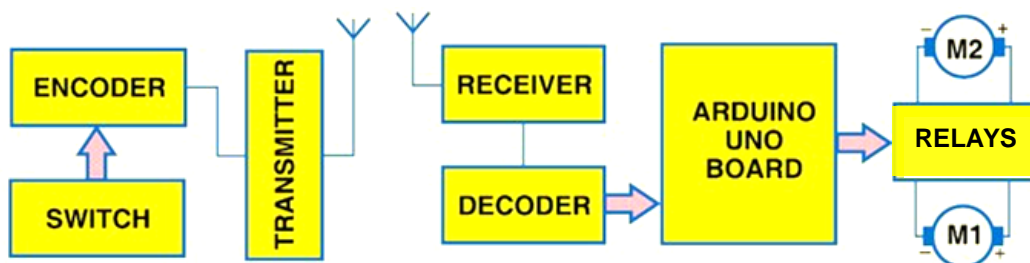
Introduction

Here we present an Arduino based RF controlled vehicle for chess coin movement. It can be driven remotely also this will be move in 360 degree (in all directions). The RF remote control provides the advantage of a good controlling range up to 100 meters with proper antennae, in addition to receiving signals from or transmitting in all directions. The vehicle control unit developed by Arduino UNO board which is an open source electronics prototyping platform based on customized program which is called embedded c. In this project we have used two number of high starting torque PMDC motor connected with two driven wheels which is operated by 24 v dc lithium battery and the vehicle can be capable to move the load upto 20 kg.

Vehicle Specifications

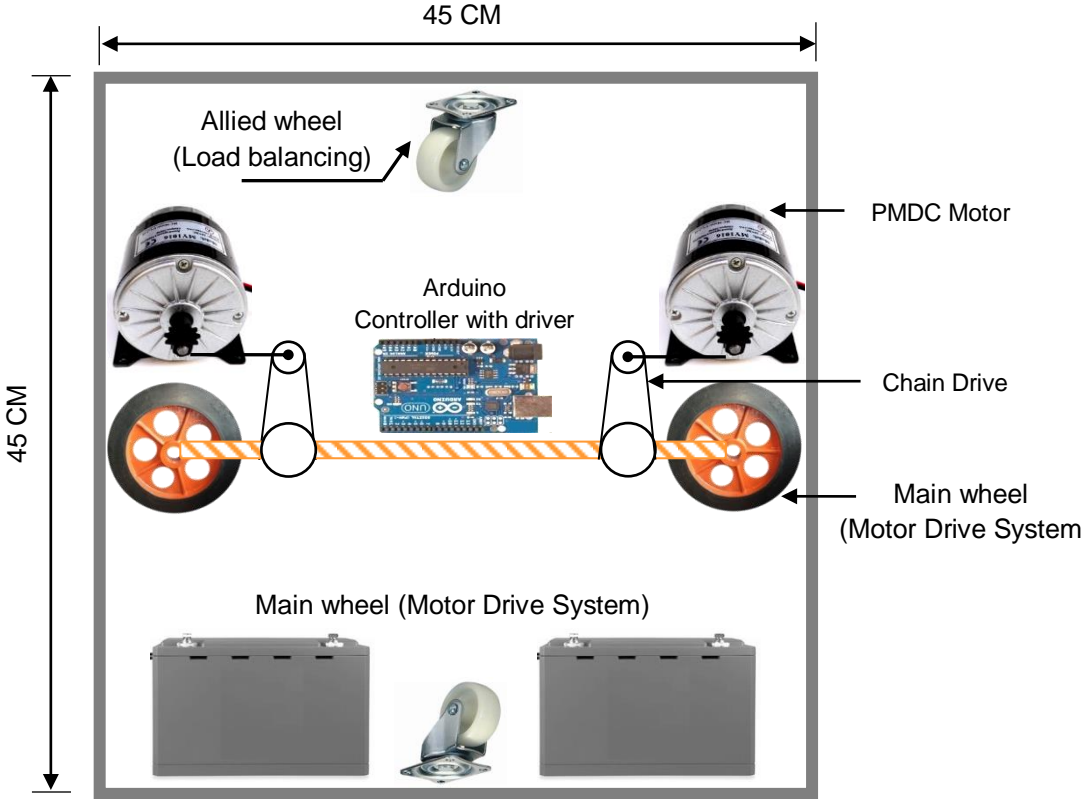
Total weight	: 9 Kg
Dimensions (in cm)	:45 L :45 B: 19 H
Wheel diameter	: 14 CM
Speed in RPM	: 40 Rpm
Load Capacity	: 20 kg
Motor Type and Rating	: PMDC Motor / High torque, 24 V DC, 200W, (2 Nos.)
Battery	: 12V, 9 AmpHr, Lithium Type (2 Nos.)
Development Cost (Approximately)	: Rs.27,000/-

BLOCK DIAGRAM

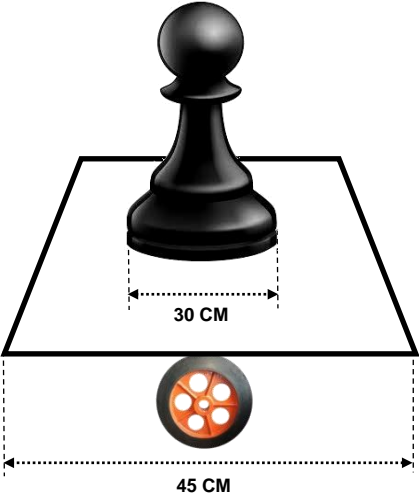


PROTOTYPE COMPONENTS LAYOUT

Vehicle System (Bottom view)



Vehicle System (Straight view)



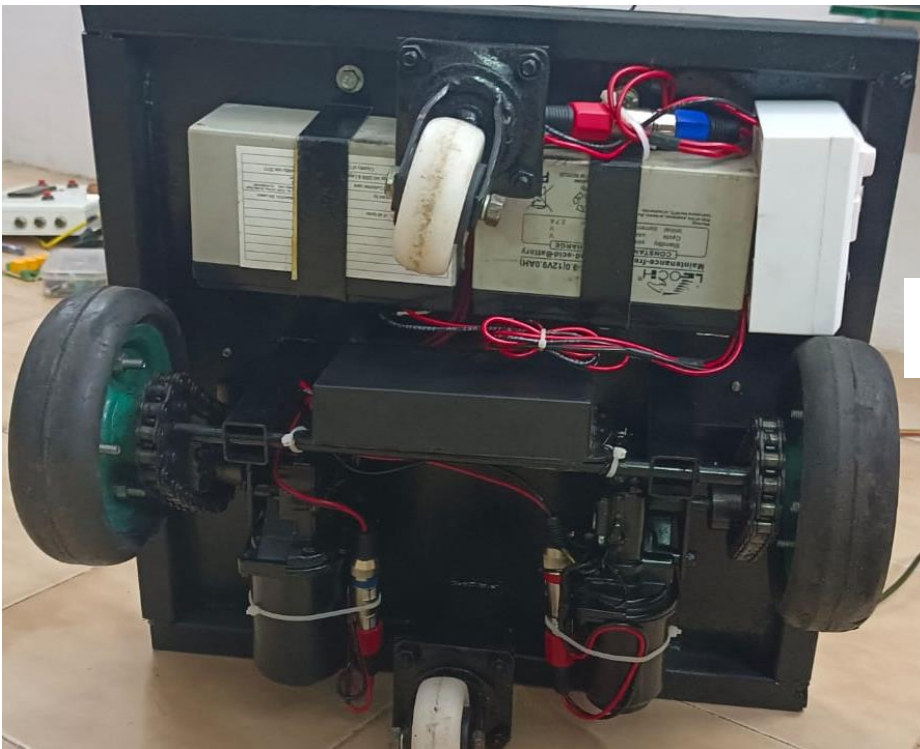
IMPLEMENTATION OF REAL TIME PROTOTYPE



**Vehicle System
(Straight view)**



**Vehicle System
(Side view)**



**Vehicle System
(Bottom view)**

AJANTHA TECHNOLOGY

NO,30 NARASINGAPURAM ST
MOUNT ROAD
Chennai – 600 002, India.

Mob: +91 9962721344 / 8939487733 | Mail : Ajanthatechnology1987@gmail.com |

		Date		
		Quote No		
		Company's GSTIN		
		33AWDPA6432D1Z8		
S.No.	Description of Goods	Quantity	Rate	Amount (Rs.)
1	HIGH TORQUE DC MOTOR	2	Rs. 4,000.00	Rs. 8,000.00
2	WHEEL	2	Rs. 500.00	Rs. 1,000.00
3	DUMMY WHEEL	2	Rs. 250.00	Rs. 500.00
4	CHAIN	2	Rs. 175.00	Rs. 350.00
5	SPROCKET	4	Rs. 150.00	Rs. 600.00
6	45 CM TO 45 CM SHEET	1	Rs. 1,200.00	Rs. 1,200.00
7	12V 9AMP BATTERY	2	Rs. 1,100.00	Rs. 2,200.00
8	BALL BEARING	2	Rs. 100.00	Rs. 200.00
9	8MM ROD	1	Rs. 250.00	Rs. 250.00
10	1" INCH SQUARE PIPE	10FEET	Rs. 50.00	Rs. 500.00
11	WIRE	3M	Rs. 25.00	Rs. 75.00
12	REMOTE KIT	1	Rs. 3,500.00	Rs. 3,500.00
13	NET AND BOLD	12 SET	Rs. 25.00	Rs. 300.00
14	LABER		Rs. 7,000.00	Rs. 7,000.00
15	BATTERY CHARGER		Rs. 1,300.00	Rs. 1,300.00
Total				Rs. 26,975.00
Terms :				
Duration : 2 weeks from the date of realization of 1st Payment				
Payment Terms :				
1st Payment - 75% as advance				
2nd Payment - 25% at the time of delivery				
BANK DETAILS		For AJANTHA TECHNOLOGY		
BANK NAME	INDIAN BANK			
BANK BRANCH	ANNA SALAI			
ACCOUNT NAME	AJANTHA TECHNOLOGY			
ACCOUNT TYPE	CURRENT ACCOUNT			
ACCOUNT NO	7128336301			
IFSC CODE	IDIB000A089	Authorized Signatory		



SMART LIGHTING SYSTEM REPORT

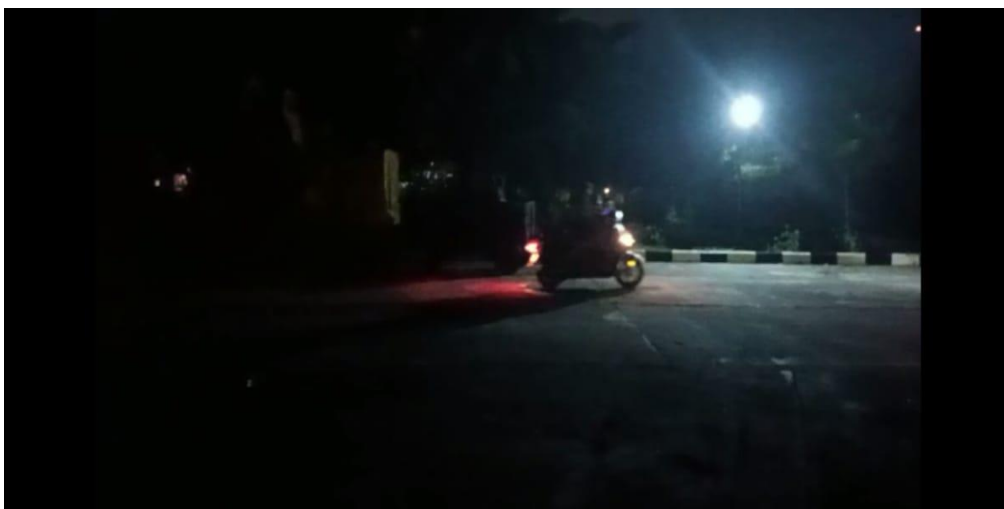
05.10.2021

- Smart Lighting System is very compact unit. It consist of solar panel, LED light, LDR, PIR sensor and lithium iron battery.
- Smart Lighting system installed and tested with two number of light with existing pole on 04.10.2021 at our Vinayagar temple towards first year block road.
- The following features are observed from the smart lighting system.
 - a) ON – OFF control with Remote
 - b) Standard LDR Mode
 - c) Rader Mode using PIR Sensor (100 % brightness when image crossing around 25 feet radius; 30 % brightness if no image sensed.)
 - d) Can operate the lamp Constant 100 % Brightness
 - e) Also with Constant 30 % Brightness
- Specifications of Smart Lighting (as we installed)
 - a) Power: 60 Watt
 - b) Battery Charging time: 5 – 7 Hrs.
 - c) Battery Capacity: 20,000 MAH (74 WHr.)
 - d) Input Voltage: 3.7 V DC Only
 - e) Beam Angle: 120°
 - f) Lumens: 120lm n/watt
 - g) CRI: > 80
 - h) LDR operate @ < 400 Lux irrespective of sunrise and sunset (ambient illumination)
 - i) 40 Watts light = Rs.2100/-; 60 Watts = Rs.2700/-

Standard LDR Mode



Rader Mode using PIR Sensor (100 % brightness when image crossing around 25 feet radius; 30 % brightness if no image sensed.)



Live Demo Video

Link: https://drive.google.com/file/d/19NO_pfdbuQEioshTgGBck_dVku48xyg5/view?usp=drivesdk

Smart Lighting Project Team
Department of EEE

GSTIN : 33AYXPN1089M1ZL

ESTIMATE

Mob : 9791919876 / 8825998668

RASI ELECTRICAL AND HARDWARES

No. 3, Military Road, Orikkai, Kanchipuram - 631502

No. 14

Date : 03/9/2021.

Name SCSVMV University Gnathur - Kpm.

QTY.	PARTICULARS	RATE	AMOUNT
1 No.	Dc - Aqua - solar light (with Remote) - 40w.		2100
1 No	Dc - Aqua - solar light (with Remote) - 60w.		2700
			<u>4800</u>

Rupees Four thousand eight hundred only



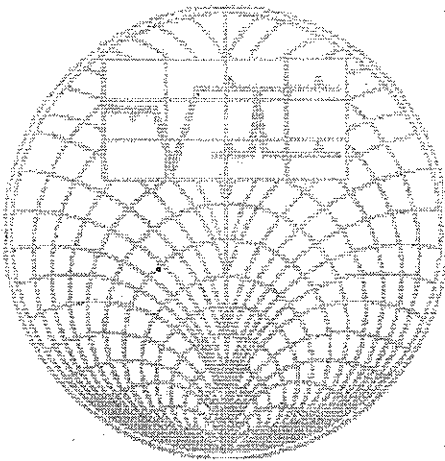
INVOICE

Vi Microsystems Pvt. Ltd.

Plot No. 75, Elelctronics Estate
 Perungudi, Chennai-600 096.
 Sales Ph: 24961842, 24961852 Accts. Ph: 2496 0774
 Fax: 24961536
 Email: sales@vimicrosystems.com

PAN No. AAACV0909J
 GST In. : 33AAACV0909J1ZJ

TO THE REGISTRAR SRI CHANDRASEKHARENDRA SARASWATHI VISWA MAHAVIDYALAYA, ENATHUR KANCHEEPURAM.-631 561	No. P/0012	Date 08-July-2021
	Delivery Note	
	Order Ref :	
	Our Ref :	

Sl.No	Description	HSN	Qty	Rate		Amount	
				₹	P	₹	P
1.	8086 Microprocessor Trainer Kit (Micro-86 LCD)	9023	02	5,746	00	11,492	00
				Add: Basic Price Add: CGST@ 9% Add: SGST@ 9% Round off		11,492 1,034 1,034 (-)	00 28 28 56
Total						13,560	00

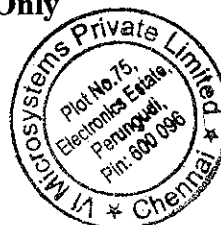
Rupees in words : **Thirteen Thousand Five Hundred and Sixty Only**

for Vi Microsystems Pvt. Ltd.

Subject to Chennai Jurisdiction

Prepared

Checked



K. Ramesh Kumar
 Authorised Signatory

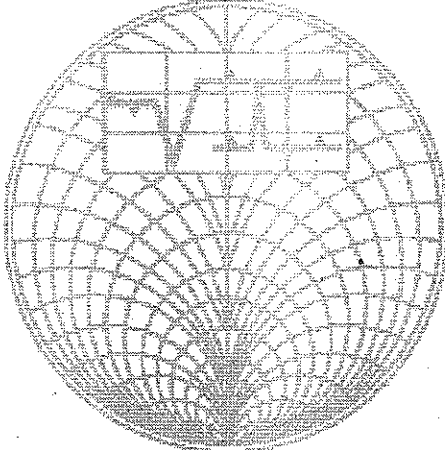
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TO THE REGISTRAR SRI CHANDRASEKHARENDRA SARASWATHI VISWA MAHAVIDYALAYA, ENATHUR KANCHEEPURAM.-631 561	No. P/0013	Date 08-July-2021
	Delivery Note	
	Order Ref :	
	Our Ref :	

SLNo	Description	HSN	Qty	Rate		Amount	
				₹	P	₹	P
1.	8051 Micro Controller Trainer Kit (Micro - 51 LC LCD)	9023	02	5,551	00	11,102	00
				Add: Basic Price Add: CGST@ 9% Add: SGST@ 9% Round off		11,102 999 999 (-)	00 18 18 36
Total						13,100	00

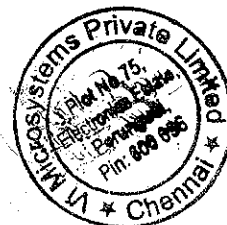
Rupees in words : **Thirteen Thousand One Hundred Only**

for Vi Microsystems Pvt. Ltd.

Subject to Chennai Jurisdiction

Prepared

Checked



[Handwritten Signature]

Authorised Signatory