

## **DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

### **Research equipment / Software details**

#### **ACADEMIC YEAR 2022-2023**

##### **1.ECAD LAB with Vivado Software**

ECAD LAB is equipped with Vivado software and latest FPGA Boards.

Vivado is a comprehensive software suite developed by Xilinx, designed primarily for the development, synthesis, and implementation of digital designs targeting Xilinx Field Programmable Gate Arrays (FPGAs) and Complex Programmable Logic Devices (CPLDs). It provides a range of tools and features for designing, optimizing, and analyzing digital circuits and systems.

**Research Applications of Vivado Software:** Vivado software finds diverse applications in research across various domains, including:

**Digital System Design:** Researchers can use Vivado to design and implement complex digital systems, exploring novel architectures and optimizing for specific metrics like speed or energy efficiency.

**Signal Processing:** Vivado can be employed for accelerating signal processing algorithms by mapping them onto FPGAs, offering potential speedup over traditional software implementations.

**Embedded Systems:** Researchers can design custom hardware accelerators for embedded systems, enhancing their performance and efficiency.

**Communication Systems:** Vivado can be used to implement digital communication systems, enabling the exploration of advanced modulation/demodulation techniques and channel coding.

**Image and Video Processing:** Vivado's capabilities can be leveraged to accelerate image and video processing tasks, such as image filtering, compression, and feature extraction.

**Machine Learning:** Researchers can explore hardware acceleration of machine learning algorithms, taking advantage of FPGAs' parallel processing capabilities.

In essence, Vivado software serves as a versatile tool for researchers to experiment with, prototype, and optimize digital designs across a wide spectrum of research areas. Its comprehensive features and FPGA-specific capabilities make it a valuable asset in advancing various fields of study.

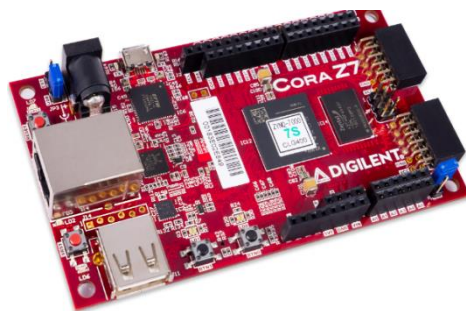
**FPGA Development Boards: PYNQ and ZedBoard**

PYNQ (Python Productivity for Zynq), created by Xilinx, enables easy programming of Zynq SoCs using Python. PYNQ offers the Pynq-Z1 boards, featuring Xilinx Zynq-7000 APSoC. Developers can leverage Python libraries to accelerate hardware design, create custom IPs, and interact with programmable logic, simplifying embedded system development. PYNQ boards are ideal for quick prototyping and learning FPGA-based design through a familiar programming language and Jupyter notebooks.

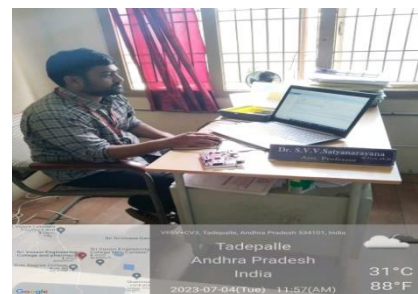


### Pynq-Z1 boards

ZedBoard is a development board built around the Xilinx Zynq-7000 SoC. It combines a dual-core ARM Cortex-A9 processor with programmable logic, offering a flexible platform for embedded systems development. The ZedBoard allows developers to create custom accelerators, interface with peripherals, and run operating systems, making it suitable for various applications such as signal processing, motor control, and real-time systems prototyping. Its FPGA fabric can be programmed using Xilinx Vivado tools and high-level languages like C/C++ or MATLAB.




Zynq-7000 SoC

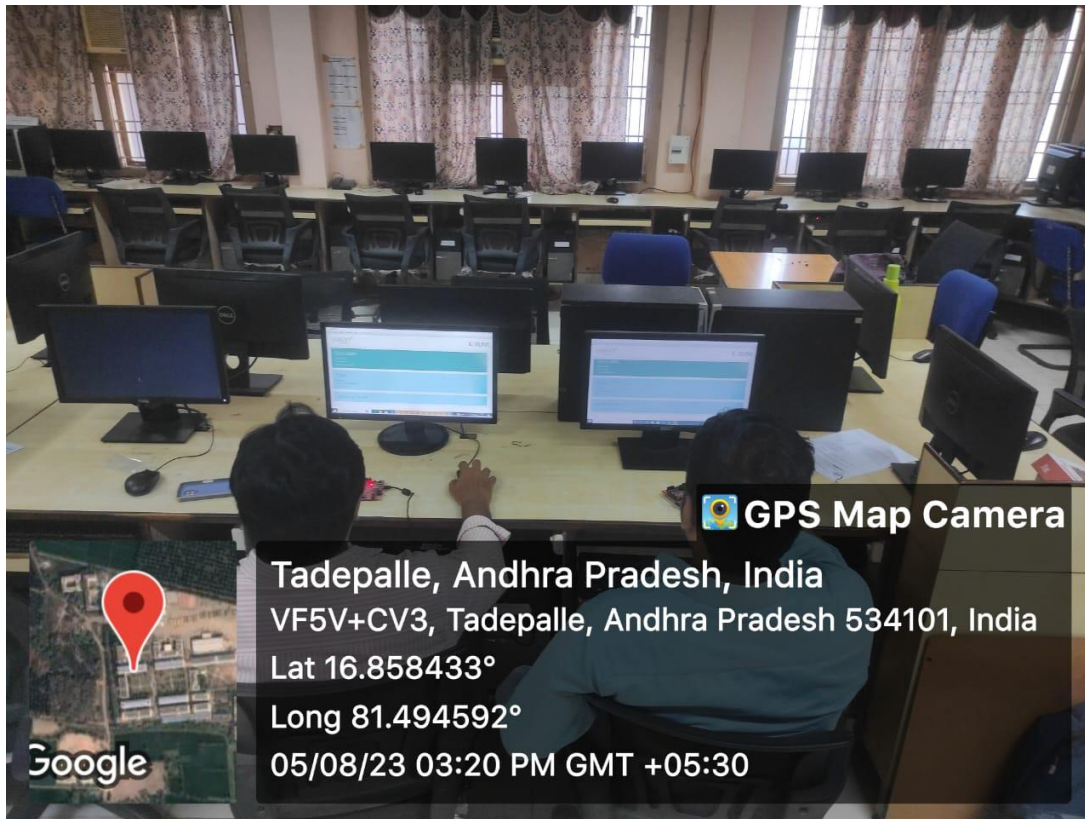
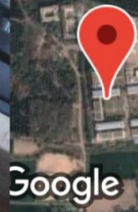



Working on Zynq-7000 SoC



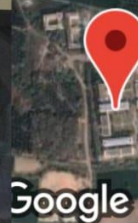
 **GPS Map Camera**

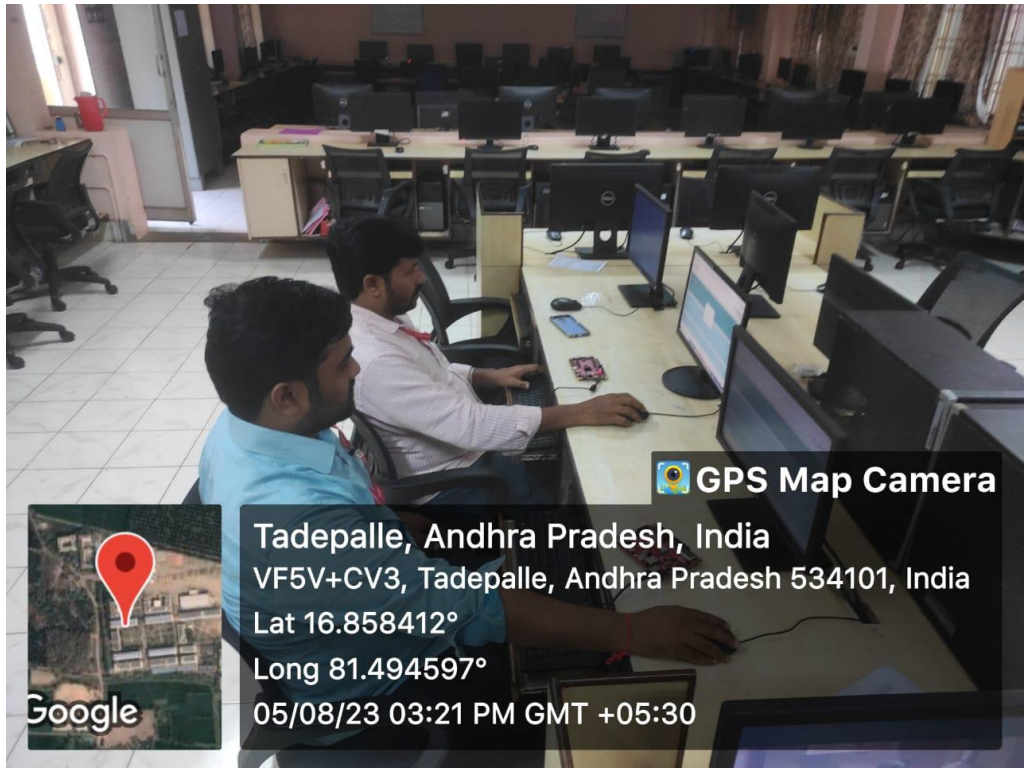
Tadepalle, Andhra Pradesh, India  
VF5V+CV3, Tadepalle, Andhra Pradesh 534101, India  
Lat 16.858374°  
Long 81.494579°  
05/08/23 03:11 PM GMT +05:30



 **GPS Map Camera**

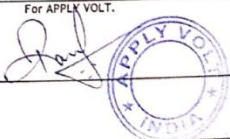
Tadepalle, Andhra Pradesh, India  
VF5V+CV3, Tadepalle, Andhra Pradesh 534101, India  
Lat 16.858433°  
Long 81.494592°  
05/08/23 03:20 PM GMT +05:30





Faculty members doing R&D work in ECAD LAB and working with FPGA boards



APPLY VOLT		TAX INVOICE			
Door No: 40-6/3-3, II floor, Srinilayam Co-operative Bank Colony Moghalrajapuram, Vijayawada-10 Phone: 7013534002 E-Mail: support@applyvolt.com		PAN: CG7PK4061J GSTIN: 37CG7PK4061J1ZP			
<b>BILL TO</b> The Director Head of the Department- ECE Sri Vasavi Engineering College Tadadepalli, Tadepalligudem Pincode-534101, West Godavari Dist., A.P		<b>REFERENCE</b> Your PO Ref No: As per PO Dated: 07.01.2023 Customer GST No: NA			
		<b>SHIP TO</b> Head of the Department- ECE Sri Vasavi Engineering College Tadadepalli, Tadepalligudem Pincode-534101, W.G Dist., A.P Kind Atten: Dr Kusuma Mam			
S.NO	HSN	DESCRIPTION	QTY	UNIT PRICE	TOTAL
1	847180	AV-Zynq FPGA Kit with all Interfaces(as per P.O)	5	INR 38,000.00	INR 1,90,000.00
2	997331	Xilinx (ML Edition)Software Tool-75users	3	INR 1,40,000.00	INR 4,20,000.00
3	820340	Pynq Z2(Phyton)FPGA Kit	5	INR 18,750.00	INR 93,750.00
Sub Total					INR 7,03,750.00
				CGST@9%	INR 63,337.50
				SGST@9%	INR 63,337.50
				TOTAL	INR 8,30,425.00
Rupees in words: Eight Lakhs Thirty Thousand Four Hundred Twenty Five only (rounded off)					
<b>Our Bank Details</b> NAME: APPLY VOLT. Bank: INDIAN OVERSEAS BANK Ac No: 318433000000063 IFSC: IOBA0003184 BRANCH : BHAVANIPURAM, VIJAYAWADA			<b>Terms and Conditions</b> Mode of Dispatch: By Courier Via Partner IGST: 13% Terms of payment: 100% payment against delivery		
If you have any questions about this Invoice, please contact This is computer generated document signature not required. Prepared by PRADEEP, Coordinator			For APPLK VOLT. 		



# SRI VASAVI ENGINEERING COLLEGE

(AUTONOMOUS)

(Sponsored by Sri Vasavi Educational Society)  
(Approved by AICTE, New Delhi & Accredited by NAAC with "A" Grade)  
(Permanently Affiliated to JNTUK, KAKINADA)  
Peddapalli, TADEPALLIGUDEM - 534101, W/G Dist. (AP)

College : 08818-284322, 284355

**Grandhi Satyanarayana**  
President

**Sri Yerra Narayana Swamy, M.A., LL.B.**  
Hon'rary President

**Ch. V.V. Subba Rao, B.Sc.**  
Secretary & Correspondent

SVEC/ECE Lab Equipment Purchase Order/2022-23/

07-01-2023

Ref : .....

Date : .....

To

APPLY VOLT  
#40-6/3-3, Sri Nilayam,  
3<sup>rd</sup> Floor, Co-Operative Bank Colony,  
Meghalrajpuram, Vijayawada - 520 010.

Sir/Madam,

**Sub:** Purchase order for Xilinx (ML edition) Software- Reg  
**Ref:** Your Quotation No. AV/SVEC/2202, Dated 26-12-2022.

In cite of the above reference and the quotation sent to us for supply of Xilinx (ML edition) Software for our ECE Lab, we are happy to inform you that the purchase order is being raise in the name of Apply Volt Pvt. Ltd., with the Following Description.

Sl. No.	Description	Qty	Unit Price	Total Price (INR)
1	AV-Zynq FPGA Kit with all interfaces like Wifi, Bluetooth, TFT, LCD with bottom Acrylic ,Box and necessary Cables	5	38,000.00	1,90,000.00
2	Xilinx (ML edition) software tool-75 users	3	1,40,000.00	4,20,000.00
3	Pynq Z2 (Phyton) FPGA kit	5	18,750.00	93,750.00
				7,03,750.00
	GST-Taxes@5%against DSIR Certificate or GST@18% extra			1,26,675.00
	<b>Total in INR</b>			<b>8,30,425.00</b>

Please send the order acknowledgement on receipt of PO and supply the equipment as per the Following Terms & Conditions:

Delivery : 4 weeks from the date of receipt of PO  
Payment Terms : 50% advance along with PO and balance 50% after installation  
Warranty : 90 days for hardware and One year for software  
Bank Details : Indian Overseas Bank Current AC No: 318402000000224  
IFSC Code: IOBA0003184, Branch: Bhavanipuram, Vijayawada.  
GST No : 37CGZPK4061J1ZP

You are requested to deliver the order at an early date.

Thanking You



Yours Sincerely,

*Ch. V.V. Subba Rao*  
(CH.V.V. SUBBA RAO)

Secretary & Correspondent  
SRI VASAVI ENGINEERING COLLEGE  
Peddapalli TADEPALLIGUDEM-534101

## **2.Internet of Things Lab**

IoT Lab helps with all aspects of our digital transformation, including requirements, strategy, and architecture design, as well as technology selection, deployment, integration, test, and validation. The network of physical objects or "things" that are integrated with sensors, software, and other technologies for the purpose of communicating and sharing data with other devices and systems over the internet is the focus of the Internet of Things (IoT) research lab.

It facilitates improved decision-making, saves time and money, and increases process effectiveness, asset utilization, and productivity. benefits from real-time analytics and insights for better decision-making. IoT will help provide better control of various aspects with regard to applications like healthcare, agriculture, smart cities, etc.





Faculty members doing R&D work in IoT Lab

Devices such as the Beaglebone Black, Raspberry Pi, TI Lunchbox, Pine64, and Arduino with ARM processors, as well as the ESP32, ESP8266, and Arduino Boards with a variety of sensors and actuators, are available in the IoT Lab, giving users the option to use these components in a wide range of applications.





# Invoice #2858094

### Order Details

**ElectronicsComp.com**  
Constflick Technologies Limited  
Building No. 28, 2nd & 3rd Floor, 2nd Cross Road, SGN Layout Opposite G Shantilal  
Transport, Bangalore, Karnataka - 560027 India.  
Customer Support - care@electronicscomp.com

**Telephone** +91-9008032648  
**E-Mail** care@electronicscomp.com  
**Web Site:** <https://www.electroniccomp.com> (<https://www.electroniccomp.com>)

**Date Added** 22/11/2022  
**Invoice No.:** INV/22-23/98518  
**Invoice Date** 22/11/2022  
**Order ID:** 2858094  
**Payment Method** Credit Card / Debit Card / Net Banking / UPI and Wallet  
(Razorpay)  
**Shipping Method** Free Shipping  
**GSTIN No.:** 29AAGCC1645N1ZA

### Billing Address

SRI VASAVI ENGINEERING COLLEGE  
SRI VASAVI ENGINEERING COLLEGE  
Pedatadepalli, TADEPALLIGUDEM  
Landmark - SVEC Campus  
TADEPALLIGUDEM 534101  
Andhra Pradesh  
India  
Contact No. - 9490799102  
Email - principal@srivasaviengg.ac.in

### Shipping Address

SRI VASAVI ENGINEERING COLLEGE  
SRI VASAVI ENGINEERING COLLEGE  
Pedatadepalli, TADEPALLIGUDEM  
Landmark - SVEC Campus  
TADEPALLIGUDEM 534101  
Andhra Pradesh  
India

Product	Model	HSN Code	Quantity	Unit Price	Tax	To
Uno WIFI R3 Atmega328p NodeMCU ESP8266 8mb Memory USB-TTL CH340G Compatible	EC-5034	84733020	20	Rs.695.00	IGST (18%)	Rs.13,900
NEO-6M GPS Module	EC-1766	85177010	20	Rs.260.00	IGST (18%)	Rs.5,200
<b>Sub-Total</b>						Rs.19,100
<b>Coupon (GET10)</b>						Rs.-1,910
<b>Free Shipping</b>						Rs.0
<b>IGST (18%)</b>						Rs.3,094
<b>Total</b>						Rs.20,284



### Customer Comment

Please deliver the order at an early date



### PotentialLabs

Store # G-3, D.No: 1-109/20, Bikshpathi Nagar,  
Kondapur (Ad) to RTA Kondapur, Gachibowli-Hiyapur  
Road),  
Hyderabad 500084  
Phone +91-903-003-3049  
India  
store@potentiallabs.com  
www.potentiallabs.com  
GSTIN 36APOP9791B1ZP

## TAX INVOICE

#	: PLINV2020982	Place Of Supply	: Telangana (36)
Invoice Date	: 12 Nov 2022		
Terms	: Due on Receipt		
Due Date	: 12 Nov 2022		

<b>Bill To</b>	<b>Ship To</b>
<b>The principal, Sri Vasavi Engineering College</b> The principal, Sri Vasavi Engineering College Pedatadepalli, Tadepalligudem - 534101 West Godavari Dist., Andhra Pradesh	The principal, Sri Vasavi Engineering College Pedatadepalli, Tadepalligudem - 534101 West Godavari Dist., Andhra Pradesh

#	Item & Description	HSN /SAC	Qty	Rate	CGST		SGST		Amount
					%	Amt	%	Amt	
1	Raspberry pi 3 model B+	84715000	20.00	5,850.00	9%	10,530.00	9%	10,530.00	1,17,000.00
2	Power Adapter for Raspberry pi 3 model B+	85331000	20.00	295.00	9%	531.00	9%	531.00	5,900.00
3	Heatsink for Raspberry pi	85331000	20.00	50.00	9%	90.00	9%	90.00	1,000.00
4	Hdmi Cable	90319000	20.00	140.00	9%	252.00	9%	252.00	2,800.00
5	XBEE Module S2C	90319000	20.00	2,250.00	9%	4,050.00	9%	4,050.00	45,000.00
6	Xbee Explorer Board [FT232RL] with cable	90319000	20.00	550.00	9%	990.00	9%	990.00	11,000.00
7	Bluetooth Module HC-05	85331000	20.00	275.00	9%	495.00	9%	495.00	5,500.00

Total In Words  
**Rupees Two Lakh Twenty-Two Thousand Seventy-Six Only**

Beneficiary Name: PotentialLabs  
Bank: HDFC Bank  
Acc No: 502-000-143-041-55  
Account Type: Current  
Bank Address: No 10-3-567, LIGH 77/3RT, Malleshpally, Vijay Nagar Colony,  
Hyderabad - 500057, Telangana, India  
IFSC Code: HDFC0001998

Sub Total	1,88,200.00
CGST9 (9%)	16,938.00
SGST9 (9%)	16,938.00
<b>Total</b>	<b>₹2,22,076.00</b>
Payment Made	(-) 2,22,076.00
<b>Balance Due</b>	<b>₹0.00</b>

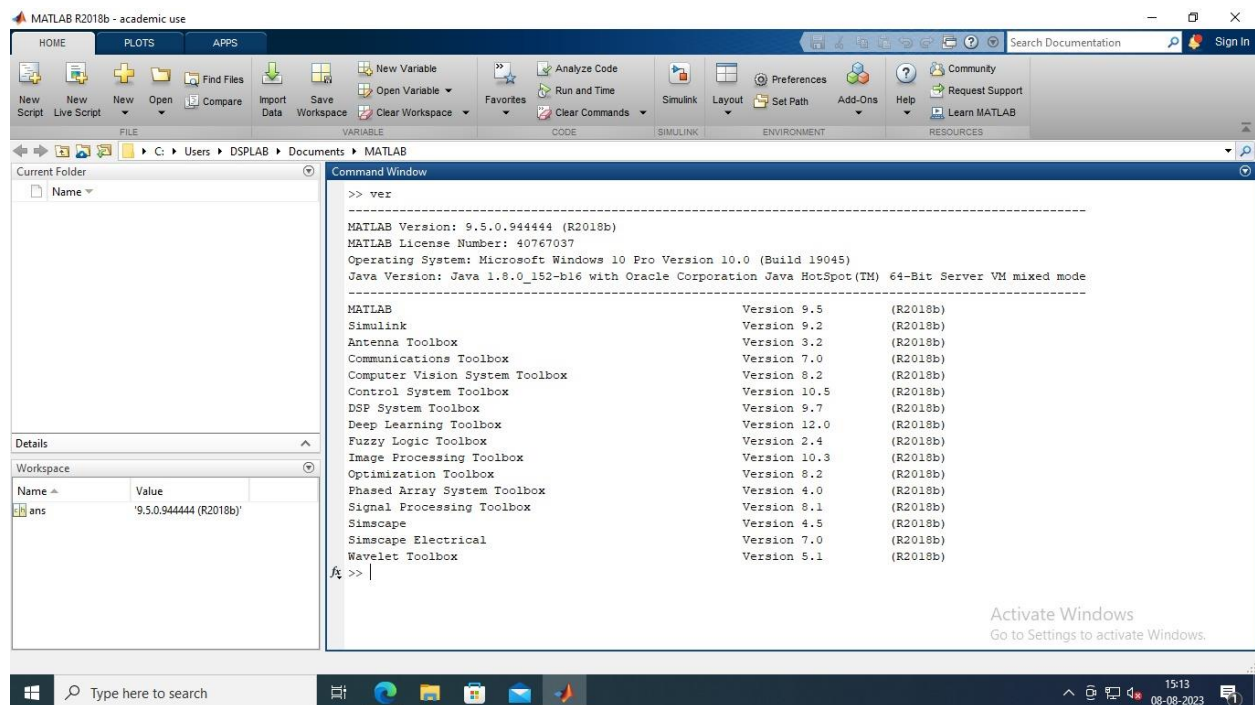
**Terms & Conditions**  
1. Manufacturer's Limited Warranty applicable as provided by them. We provide Manufacturing Defect Warranty on Generic Components. Any Component/Module received is defective or DOA (Dead on Arrival), please notify us for a replacement within 7 days from receipt of Order Package.  
2. Damages arising due to Customer's negligence or incorrect use or handling of the Component/Module won't be covered under any Warranty and won't be replaced or refunded under any circumstance.  
3. No Replacement/Refund claims for Damaged/DOA Goods will be entertained after 7 days of receipt of Order.

  
  
  
Authorized Signature

# Academic year 2018-2019

## 1.Digital Signal Processing Lab with MATLAB Software

MATLAB 2018b with advanced tool boxes are purchased for Research purpose. These are useful for faculty and students doing research in Image and signal processing domain. The tool boxes used for research work are shown below

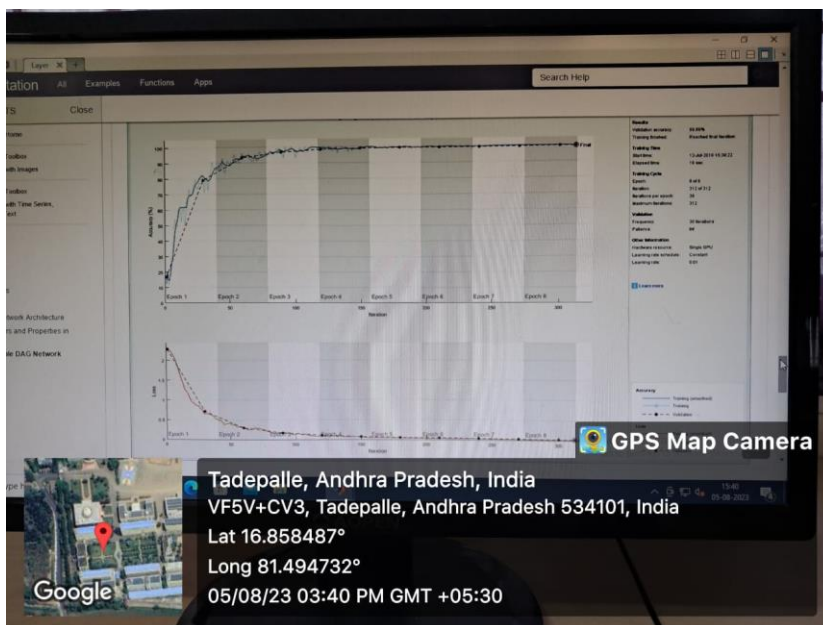
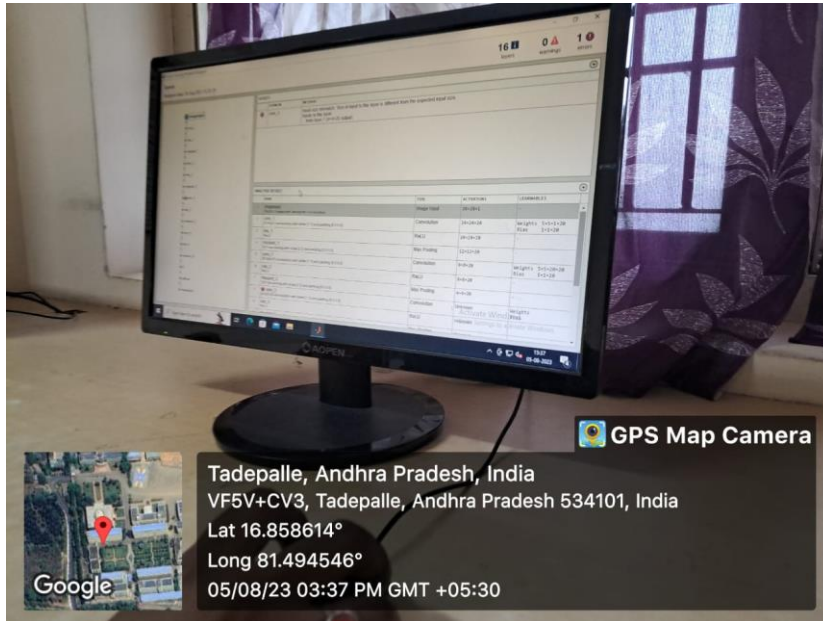


Deep Learning Toolbox provides simple MATLAB commands for creating and interconnecting the layers of a deep neural network. Examples and pre-trained networks make it easy to use MATLAB for deep learning, even without knowledge of advanced computer vision algorithms or neural networks.

Deep Learning Toolbox provides tools for each stage of the deep learning workflow.

- Preprocess data for deep network training using command-line functions and interactive apps.
- Import pretrained networks from MATLAB® or external platforms such as TensorFlow2, TensorFlow-Keras, PyTorch.
- Build networks using command-line functions or interactively using the Deep Network Designer app.

- Select training options and train networks using built-in training functions or custom training loops.
- Improve network performance by tuning hyperparameters or running multiple trials using the Experiment Manager app.
- Visualize and verify network behavior during and after training.
- Export networks to external platforms such as TensorFlow2 and ONNX.







Faculty members doing research work in DSP Lab using Deep learning tool box.

TAX INVOICE

Duplicate for Seller

Capricot Technologies Pvt. Ltd.



From :  
2nd Floor, Service  
Road, II Stage, WOC  
Mahalakshmiapuram,  
Bangalore 560086  
Karnataka  
No. 080-40359359

Shipped From :  
#6, 2nd Floor  
Service Road, II Stage, WOC Road,  
Mahalakshmiapuram,  
Bangalore 560086  
State - Karnataka Code 29  
Mob No 9243493616

Invoice No. : AAACKB290K  
GSTIN : 29AAACKB290K1Z2  
Invoice No. : U72200KA1995PTC018704  
Reverse Charges (Y/N) : No

Invoice No. : 21970  
Date : 17/01/2019  
Terms of Payment : 100% after  
Delivery

Bill To : Sri Vasavi Engineering College  
Pedatadepalli,  
West Godavari Dist  
Tadepalligudem-534101  
INDIA

For Payment:  
Bank : SVC Co-operative  
Bank Ltd.  
Branch : Peenya, Bangalore  
IFSC Code : SVC0000061  
A/C No. : 106119940000181

Customer Contact Person Details:  
Mr.Ch.V.V Souba Rao  
Phone : 9848144836  
Despatch Through : By Hand  
Customer Ref # : SVEC/ECE Lab  
Equipment/Purchase  
Order/2018 19, Dtd. 11/12/2018

Ship To : Sri Vasavi Engineering College  
Pedatadepalli,  
West Godavari Dist  
Tadepalligudem-534101  
INDIA

Item Description	SAC Code	Qty	UOM	Tax Rate	Unit Price (Rs.)	Amount (Rs.)
1 MATLAB 9.5 Part No. : ML Master License 31386017 License Number 40767037   Concurrent   Sri Vasavi Engineering College	9973	100	Nos	18%	6,721.83	6,72,183.00
2 Simulink 9.2 Part No. : SL	9973	100	Nos	18%	3,360.95	3,36,095.00
3 Antenna Toolbox 3.2 Part No. : AA	9973	5	Nos	18%	10,352.39	51,761.95
4 Communications Toolbox 3.2 Part No. : CM	9983	10	Nos	18%	7,528.78	75,287.80
5 Computer Vision System Toolbox 8.2 Part No. : VP	9973	5	Nos	18%	10,352.39	51,761.95
6 Control System Toolbox 10.5 Part No. : CT	9973	5	Nos	18%	10,352.39	51,761.95
7 DSP System Toolbox 9.7 Part No. : DS	9973	10	Nos	18%	7,528.78	75,287.80
8 Deep Learning Toolbox 12.0 Part No. : NN	9973	5	Nos	18%	10,352.39	51,761.95
9 Fuzzy Logic Toolbox 2.4 Part No. : FL	9973	5	Nos	18%	10,352.39	51,761.95
10 Image Processing Toolbox 10.3 Part No. : IP	9973	5	Nos	18%	10,352.39	51,761.95
11 Optimization Toolbox 8.2 Part No. : OP	9973	5	Nos	18%	10,352.39	51,761.95
12 Signal Processing Toolbox 8.1 Part No. : SG	9973	10	Nos	18%	7,528.78	75,287.80
13 Simscape 4.5 Part No. : SS	9973	15	Nos	18%	7,528.78	1,12,931.70
14 Simscape Electrical 7.0 Part No. : PS	9973	5	Nos	18%	25,878.83	1,29,394.15
15 Phased Array System Toolbox 4.0 Part No. : AR	9973	10	Nos	18%	7,528.78	75,287.80
16 Wavelet Toolbox 5.1 Part No. : WA	9973	5	Nos	18%	10,352.39	51,761.95

AUTODESK



3ds max



Revit

stratasys

Trimble



ANSYS

esri

MathWorks

## **2.HFSS SOFTWARE**

ANSYS HFSS (High-Frequency Structure Simulator) is a widely used electromagnetic simulation software developed by ANSYS, Inc. It is primarily designed for simulating and analyzing electromagnetic fields and effects at high frequencies, including radio frequency (RF), microwave, and millimeter-wave frequencies. HFSS is commonly used in various industries, including telecommunications, aerospace, automotive, electronics, and more.

Key features of ANSYS HFSS include:

**Electromagnetic Simulation:** HFSS provides a comprehensive set of tools for simulating electromagnetic phenomena, such as electromagnetic wave propagation, radiation patterns, impedance matching, and scattering.

**Solver Technology:** HFSS employs finite element method (FEM) and finite element-boundary integral (FE-BI) methods to accurately model and solve complex electromagnetic problems. It offers various solvers for different scenarios and accuracy requirements.

**Geometry Modeling:** Users can create intricate geometric models of structures, components, and devices directly within the HFSS interface. The software supports 2D and 3D modeling.

**Parametric Analysis:** HFSS allows users to perform parametric studies by varying design parameters and analyzing how changes impact electromagnetic behavior. This is useful for optimization and sensitivity analysis.

**Antenna Design:** HFSS is commonly used for antenna design, allowing engineers to simulate and optimize antenna performance, radiation patterns, and other characteristics.

**Waveguide and Transmission Line Analysis:** HFSS can simulate the behavior of waveguides, transmission lines, and other RF components, aiding in the design and analysis of RF circuits.

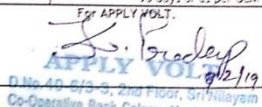
**Material Database:** The software includes a comprehensive material database with various dielectric and conductor materials to accurately model real-world materials.

**Post-Processing:** HFSS provides various post-processing tools to visualize simulation results, including field distribution plots, S-parameters, radiation patterns, and more.





Faculty members working in R&D lab with HFSS software.

APPLY VOLT		TAX INVOICE			
Door No: 40-6/3-3, II floor, Srinilayam Co-operative Bank Colony Moghalrajpuram, Vijayawada-10 Phone: 7013534002 E-mail: support@applyvolt.com		PAN: CGZPKA061J GSTIN: 37CGZPKA061J1ZP			
<b>BILL TO</b> The Principal Sri Vasavi Engineering College Tadepalligudem Andhra Pradesh Pincode 534101		<b>REFERENCE</b> REF NO: As per P.O of SVEC Date: 11.12.2018			
<b>SHIP TO</b> Head of the Department Electronics & Communication Engineering Sri Vasavi Engineering College Tadepalligudem Andhra Pradesh-534101					
S.NO	HSN CODE	DESCRIPTION	QTY	UNIT PRICE	TOTAL
1	9973	Ansys HFSS Tool- 1 user Academic Research License- 5 users teaching license	1	INR 675,000.00	INR 675,000.00
Sub Total					INR 675,000.00
CGST@9%					INR 60,750.00
SGST@9%					INR 60,750.00
Rupees In words: Seven Lakhs Ninety Six thousand five hundred Rupees Only				TOTAL	INR 796,500.00
<b>Our Bank Details</b> NAME: APPLY VOLT. BANK: INDIAN OVERSEAS BANK AC No: 31840200000024 IFSC: IOBA0003184 BRANCH: BHAYANIPURAM, VIJAYAWADA					
If you have any questions about this Tax Invoice, please contact This is computer generated document signature not required. Prepared by PRADEEP, Coordinator					
<b>Terms and Conditions</b> Mode of Dispatch: By Road GST: 18% Terms of payment: 100% payment against delivery Warranty: 90 days or as per OEM					
For APPLY VOLT.  <b>APPLY VOLT</b> D.No. 40-6/3-3, II Floor, Sri Nilayam Co-Operative Bank Colony, Moghalrajpuram VIJAYAWADA-520010, Andhra Pradesh					



# DEPARTMENT OF ELECTRICAL & ELCTRONICS ENGINEERING

## Research equipment / Software details

### R&D EQUIPMENT LIST

A.Y.2022-2023

S.No	Date	EQUIPMENT NAME	QTY
1	19/04/2023	SPARTAN 6 DEVELOPMENT BOARD SP6-LX9-DB	1
2		DESKTOP	2



AHMY TECHNOLOGIES					
<small>Plot 1, 2nd Floor, Marudaa, Tatyasaheb Marathe Marg, Near 100 Feet Road, 1st Stage, Jayashree Nagar, Bangalore - 560022</small> <small>GST No: 29AATK0288A</small>					
TAX INVOICE					
Invoice No: 22/2023-24	Date: 19-Apr-2023	ORIGINAL FOR BUYER			
TO: The Principal, SVVASTU Engineering College, Peddabointhi Village, Tadipatri Taluk, West Godavari, Andhra Pradesh - 534101, India.	Delivery Point: Buyer's Ref: Invoice No: 22/2023-24	Taxable Value of Purchase (Net of Discounts) Purchase order No: Invoice date: 19-Apr-2023 Terms of Delivery:			
HSN-848122003		Dispatched through:		Invoice No: 22/2023-24	
SPPSRM Document No:		Mode:		Destination: TADIPATRI, AP, INDIA	
Sl.No	Description of Goods	Quantity	Rate	per	Amount
1	SPARTAN 6 DEVELOPMENT BOARD SP6-LX9-DB	1.00	30000.00	PCS	30000.00
HSN CODE: 85420000					
GST 18 %					5400.00
Total					35400.00
Amount Chargeable (In words) Thirty Five Thousand Four Hundred Rupees Bill Name: AHMY TECHNOLOGIES Account Number: 21180500026 Bank Name: ICICI bank Branch: Full Branch PSC: 000002159					
Declaration: We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct.					
					 E. & O. 1



**A.Y.2019-2020**

S.No	Date	EQUIPMENT NAME	QTY
1	11/2/2020	DIGITAL AC CLAMP METER	1
2	12/02/2020	BATTERY CHARGER	1
3	7/9/2019	HP DESKTOPS	25

amazon.in Tax Invoice/Bill of Supply/Cash Memo (Original for Recipient)

Order ID: 11023211802711

Order Date: 11/02/2020

Order Time: 11:02:35

Order Number: 058-550943-2111943

Order Date: 11/02/2020

Invoice Number: DLS11213745

Invoice Date: 11/02/2020

Sl.	Description	Unit	Qty	Rate	Amount	Tax	Total
1	1. Digital AC Clamp Meter 200, 1000 Amp with 1.5m Cable (Model: DT-200)		1	1200	1200	0	1200
							1200

Amount in Words: For Cloudfall India Private Limited

Authorized Signatory

Amount in Words: For Cloudfall India Private Limited

Authorized Signatory

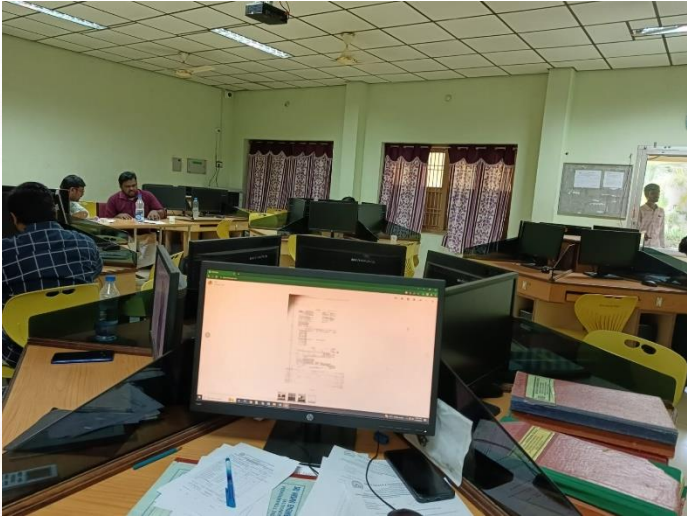
Amount in Words: For Cloudfall India Private Limited

Authorized Signatory

PROFORMA INVOICE					
<b>MILITARY ENGINEERS (INDIA) PVT LTD</b> Plot No. 108, Phase 2, Sector 24, Faridkot - 151005, Punjab Phone: +91 98150 10000, Fax: +91 98150 10001 UIN: ICAAC 000004725, T No. No. 683130493 DE 61642002, CST No. 683130493 DL 23801993 GSTIN: 0268AAB0004725					
<b>Phase 2, Address of Customer: (Bill To)</b> Sri Venket Engineering College Tadepalligudem, West Godavari District-534101 Andhra Pradesh Contact Person: Mr. Sri Venket Contact Number: +91-9490752211 E-Mail: venket@sveng.edu.in, venket@sveng.edu.in			<b>Name &amp; Address of Consignee: (Dispatch To)</b> GSTIN: 0268AAB0004725		
Description of Goods	Make	UOM	Rate / Unit	Qty	Basic Price
1 Battery Charger 16A/20V	POS	14300	1	14300	
2					
3					
<b>Summary:</b> TOTAL BASIC VALUE: 14300.00 Packing & Insurance Charges @ 3.25%: 464.99 Installation Charge: People (As On Account) GST @ 18%: 2574.64 <b>NET PAYABLE AMOUNT: 17339.63</b>					
<b>General Terms &amp; Conditions:</b> 1. Delivery is subject to availability of stock. 2. Payment should be made in advance. 3. Payment should be made within 10 days of delivery. 4. Payment should be made within 10 days of delivery. 5. Payment should be made within 10 days of delivery. 6. Payment should be made within 10 days of delivery. 7. Payment should be made within 10 days of delivery. 8. Payment should be made within 10 days of delivery. 9. Payment should be made within 10 days of delivery. 10. Payment should be made within 10 days of delivery.					



TAX INVOICE	
<b>Sender:</b> MILITARY ENGINEERS (INDIA) PVT LTD Plot No. 108, Phase 2, Sector 24, Faridkot - 151005, Punjab Phone: +91 98150 10000, Fax: +91 98150 10001 UIN: ICAAC 000004725, T No. No. 683130493 DE 61642002, CST No. 683130493 DL 23801993 GSTIN: 0268AAB0004725	<b>Receiver:</b> Sri Venket Engineering College Tadepalligudem, West Godavari District-534101 Andhra Pradesh Contact Person: Mr. Sri Venket Contact Number: +91-9490752211 E-Mail: venket@sveng.edu.in, venket@sveng.edu.in
<b>Invoice No:</b> 10000000000000000000 <b>Invoice Date:</b> 19/12/2018 <b>Invoice Time:</b> 10:00:00 AM <b>Invoice Status:</b> Open <b>Invoice Type:</b> Sales Invoice <b>Invoice Category:</b> Sales Invoice <b>Invoice Sub-Category:</b> Sales Invoice <b>Invoice Item:</b> Sales Invoice <b>Invoice Description:</b> Sales Invoice <b>Invoice Reference:</b> Sales Invoice <b>Invoice Remarks:</b> Sales Invoice	<b>Invoice Total:</b> 17339.63 <b>Invoice Net Total:</b> 17339.63 <b>Invoice Tax Total:</b> 2574.64 <b>Invoice Grand Total:</b> 19914.27



**A.Y.2018-2019**

S.No	Date	EQUIPMENT NAME	QTY
1	19/12/2018	MATLAB 9.5 WITH TOOLBOX	25

Name	Qty	Unit Price	Amount
Microsoft Office 365 Business	10	12,000.00	1,20,000.00
AutoCAD LT 2020	10	1,200.00	12,000.00
SolidWorks 2020	10	1,500.00	15,000.00
... (other software licenses)	...	...	...
<b>Total</b>			<b>1,47,000.00</b>

## **DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

### **Research equipment / Software details**

**Academic Year : 2020-21**

#### **R&D Lab**

**Configuration (Server):**

**Server:** DELL R-240 Power Edge 1U Rack Server

**Processor:** Intel Xeon E-2124 3.3GHZ

**Number of servers:** 01

**RAM:** 32 GB UDIMM DDR4 ECC RAM (2\*16) 2666MHZ.

**HDD:** 1\*1TB 7.2K RPM 6 GEPS 512N 3.5" cabled Hard Drive.

**Desktops:** 18

**Configuration:**

**Dell U24115H Ultra 24" LED Monitor**

**Processor:** Intel® Core™ i5-7400 CPU @ 3.00 GHz

**RAM:** 4.00 GB









**TAX INVOICE**

(ORIGINAL FOR RECIPIENT)

**LASER TECHNOLOGIES**

#40-5/3-13, 2ND FLOOR  
 Krishna District Petroleum Dealers Asson Buildings  
 Syam Nagar, Tikkle Road  
 Vijaywada-10  
 Ph:0866-2493783  
 GSTIN/UIN: 37AHEPR0483K1ZZ  
 State Name : Andhra Pradesh, Code : 37  
 E-Mail : lasertechnologies@rediffmail.com

Consignee  
**Sri Vasavi Engineering College**  
 Principal  
 Pedatadepalli  
 Tadepalligudem  
 State Name : Andhra Pradesh, Code : 37

Invoice No. e-Way Bill No. Dated  
**GST440/20-21 19-Dec-2020**  
 Delivery Note Mode/Terms of Payment  
 Supplier's Ref. Other Reference(s)  
 Buyer's Order No. Dated  
 SVED/CSE DEPT/MOOR/BS/Purchase Order/2020-21/01 **10-Dec-2020**  
 Despatch Document No. Delivery Note Date  
 Despatched through Destination  
 Terms of Delivery

Buyer (if other than consignee)  
**Sri Vasavi Engineering College**  
 Principal  
 Pedatadepalli  
 Tadepalligudem  
 State Name : Andhra Pradesh, Code : 37

Sl No.	Description of Goods	HSN/SAC	GST Rate	Quantity	Rate	per	Amount
1	<b>Dell R-240 Power Edge 1U Rack Server</b> Intel Xeon E-2124 3.3GHz 8 MB Cache, 4C/4T, Turbo (T1W) 4 DIMMS 32GB UDIMM DDR4 ECC RAM (2x16) 2666MHz Up to 4, 3.5" Cabled Hard Drives & Software RAID 4x 1 TB 7.2K RPM SATA 6GEPs 512N 3.5" Cabled Hard Drive DVD Writer Single Cabled PS, 250W Idrac9, Enterprise Dell USB Keyboard Dell USB Optical Mouse 3 Years Warranty S. Tag: 8Q5DY23	84715000	18 %	1 nos	1,05,932.20	nos	1,05,932.20
2	<b>Dell U24115H Ultra 24" LED Monitor</b> 3 Years Warranty S. TAGS : 6K69W03, FF59W03, C9V6W03, CQ76W03, 28W6W03, 8DBDW03, HNCDW03, D7S7W00, B4S7W03, JPCDW03, HQCDW03, BCS7W03, JMCDW03, CHBDW03, 4LCDW03, 3PCDW03, 6HCDW03, 2CCDW03,	8528	18 %	18 nos	16,072.03	nos	2,89,296.54
							3,95,228.74
							CGST@9% 9 % 35,570.59
							SGST@9% 9 % 35,570.59
							ROUNDED OFF 0.08
<b>Total</b>							<b>19 nos ₹ 4,66,370.00</b>

Amount Chargeable (in words)

**INR Four Lakh Sixty Six Thousand Three Hundred Seventy Only**

HSN/SAC	Taxable Value	Central Tax Rate	Central Tax Amount	State Tax Rate	State Tax Amount	Total Tax Amount
84715000	1,05,932.20	9%	9,533.90	9%	9,533.90	19,067.80
8528	2,89,296.54	9%	26,036.69	9%	26,036.69	52,073.38
<b>Total</b>	<b>3,95,228.74</b>		<b>35,570.59</b>		<b>35,570.59</b>	<b>71,141.18</b>

Tax Amount (in words) : **INR Seventy One Thousand One Hundred Forty One and Eighteen paise Only**

Head of the Department  
 Dept. of Computer Science & Engineering  
 Sri Vasavi Engineering College  
 TADEPALLIGUDEM-534 101

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 : Canara Bank, Occ A/c 0004  
 A/c No. : 298526100004  
 Branch & IFS Code : Bharathi Nagar & CNRB0002985





Customer's Seal and Signature



SUBJECT TO VIJAYAWADA JURISDICTION

## DEPARTMENT OF MECHANICAL ENGINEERING

### Research equipment / Software details

S. No.	A.Y.	Details of Research equipment / Software	Photo	Name of the Laboratory
1.	2018 – 19	Gas Analyzer		Thermal Engineering
2.	2018 – 19	Diesel Smoke meter		Thermal Engineering
3.	2018 – 19	Hydraulic press		Manufacturing Process
4.	2020 – 21	CNC Lathe Machine		CAD / CAM



5.	2023 – 24	Solid Works	<p><b>TAX INVOICE</b></p> <p>Mr. Logical Solutions Limited        M-10, 17/250, 4th Floor, Sector-10,        Connaught Place, New Delhi-110028        Telephone: 011-26103000 Fax: 011-26103001        E-MAIL: info@logicalsolutions.com</p> <p>Mr. Sri Veeram Engineering College        Pudukottai,        Tamil Nadu,        PIN Code: 624001        India</p> <p>Invoice No: 00000000000000000000        Invoice Date: 16/06/2023        Invoice Time: 16/06/2023 16:00:00        Invoice Currency: INR</p> <table border="1"> <thead> <tr> <th>Description of Goods</th> <th>UOM</th> <th>Quantity</th> <th>Unit Price (INR)</th> <th>Net Price (INR)</th> </tr> </thead> <tbody> <tr> <td>SOLIDWORKS Education Edition Network License 2023-24 (User)</td> <td>Net</td> <td>1</td> <td>4,21,000.00</td> <td>4,21,000.00</td> </tr> <tr> <td>IGST @18%</td> <td></td> <td></td> <td></td> <td>76,780.00</td> </tr> <tr> <td><b>Grand Total</b></td> <td></td> <td></td> <td></td> <td><b>4,97,780.00</b></td> </tr> </tbody> </table> <p>Amount (Chargable on GST)        4,21,000.00        4,21,000.00        76,780.00        4,97,780.00</p> <p>Company Name: LOGICAL SOLUTIONS LIMITED        GSTIN: 07AALC1818N        For Logical Solutions Limited        Anirudh</p>	Description of Goods	UOM	Quantity	Unit Price (INR)	Net Price (INR)	SOLIDWORKS Education Edition Network License 2023-24 (User)	Net	1	4,21,000.00	4,21,000.00	IGST @18%				76,780.00	<b>Grand Total</b>				<b>4,97,780.00</b>	CAD / CAM
Description of Goods	UOM	Quantity	Unit Price (INR)	Net Price (INR)																				
SOLIDWORKS Education Edition Network License 2023-24 (User)	Net	1	4,21,000.00	4,21,000.00																				
IGST @18%				76,780.00																				
<b>Grand Total</b>				<b>4,97,780.00</b>																				



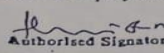
CNC Lathe Machine



Gas Analyzer

**TECH-ED**

**TECH-ED EQUIPMENT COMPANY**  
 Sales Off: No.#146, Teachers Layout, 6<sup>th</sup> Cross, Off. University Road Nagarbhavi,  
 Bangalore-560072  
 Fac: Site No.18, Survey No.131, 17th KM, Magadi Road, Bangalore-560 091 Ph:080-  
 28536501, 65997342, M:9243065580  
 e-mail: tech\_ed55@yahoo.co.in techedequipment@gmail.com  
 Regd. Office: # 118, Garden Villas, Nagarbhavi Road, Bangalore-560 072,  
 VAT TIN No.: 29350484383 GST No.: 29AAAPR0131M1ZP

The Principal, Sri Vasavi Engineering College Pedatadepalli, Tadepalligudem-534 101 West Godavari Dist.		INVOICE NO: <b>G90</b> Date: <b>31 JAN 2018</b> YOUR ORDER: dt.01.12.2017 DELIVERY : By Road Transport DOCUMENTS THROUGH : Direct			
GSTIN:3700000000000000					
SL. No.	Description	HSN Code	Qty	Unit Price	Amount
1.	Maclcod Gauge — 3C &	90	1No.	34,700	34,700
2.	Gas Analyzer — TE		1No.	2,31,500	2,31,500
3.	Diesel Smoke Meter — TE		1No.	1,62,500	1,62,500
4.	COP of Vapour Compression System		1No.	93,000	93,000
5.	Thermal Conductivity Measurement Apparatus — MT		1No.	44,000	44,000
	Liquids				5,65,700
	Less discount @ 17%				96,169
					4,69,531
	IGST@18%:-				84,515.58
	Total:-				<u>5,54,046.58</u>
Unloading by the Purchaser (Rs. Five Lakhs Fifty Four Thousand Forty Six & Paise Fifty Eight Only)					
E.O. & E		*of Teched Equipment Co  Authorised Signatory			
Goods once sold cannot be taken back Our responsibility ceases immediately after Goods are delivered to the carriers Interest @ 24% p.a. will be charged extra if bill is not paid within 7 days of presentation Subject to Bengaluru Jurisdiction only Certified that the Goods on which the GST has been charged are not exempted under the GST Act or the Sales Tax Act or the rules made thereunder & the amount charged on account of Sales Tax on these goods are not more than what is payable under the provision of relevant act or the rules made thereunder.					
Bank Details: Allahabad Bank, Branch: Basavanagudi, Bangalore-560 004. A/c no.:20022904842 IFS Code: ALLA0210326					



Hydraulic Press

VASANTHA HYDRAULIC SYSTEMS  
 PLOT NO -7-63, S.V.C.I.E., BALANAGER, HYDERABAD -500037

Original for Recipient: White  
 Duplicate for Transporter: Pink  
 Triplicate for Supplier: Yellow

E MAIL: krishnabayana@gmail.com, cell no -9441165834

**TAX INVOICE**

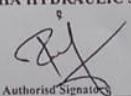
GSTIN Number:	36AOTPB0209H1Z6	Transportation Mode:	By road
Tax is Payable On Reverse Charge (Yes/No):	N.A.	Veh.No:	AP29V5284
Invoice Serial Number:	VHS/0080	Date & Time of Supply:	3/2/2018
Invoice Date:	03.02.2018	Place of Supply:	HYDERABAD

Details of Receiver (Billed to)				Details of Consignee (Shipped to)			
Name:	SRI VASAVI ENGINEERING COLLEGE			Name:	SRI VASAVI ENGINEERING COLLEGE		
Address:	Tadepalligudem-534101,W.G.Dist			Address:	Tadepalligudem-534101,W.G.Dist		
State:	AP			State:	AP		
State Code:	37			State Code:	37		
GSTIN Number:				GSTIN Number:			

S. No	Description of Goods	HSN Code (GST)	Qty	UOM	Rate	Total	Discount	Taxable Value	CGST		SGST		IGST	
									Rate	Amount	Rate	Amount	Rate	Amount
1	15 Ton hydraulic press 4-pillar type hydraulic press plate size- 450*300*50 thick,moving plate and die fixing plate with 'T' slots,and total press	8462	1	No.	145000	145000.00	45000	100000.00					18%	18000
<b>Total</b>						145000.00		100000.00	0.00		0.00			18000.00

<b>Total Invoice Value (In Words):</b> One lakh eighteen thousand only	<b>Total Amount before Tax</b>	100000.0
	Add CGST	0.0
	Add SGST	0.0
	ADD IGST	18000.0
	Other Charges	0.0
	<b>Total Amount After Tax</b>	118000.0

Buyer's P.O. No: Po/2017-18/17  
 P.O.Date: 23-11-2017  
 Terms of Payment: TERMS & CONDITIONS OF SALES  
 01) Goods once sold cannot be taken back.  
 02) All Disputes are subject to Hyderabad jurisdiction.


Certified that the particulars given above are true and correct  
 For VASANTHA HYDRAULIC SYSTEMS  
 (Seal)  Authorized Signatory





Smoke Meter

**TAX INVOICE**

<b>M/s. Logical Solutions Limited</b> #1-6-17 (Old), 1-6-41(New), Near Babu Complex, 3rd Bus Stop, Charaniyapuri, Hyderabad - 500 060, Telangana, India Phone 040-24180000, Fax 040-24180001 E-Mail: info@logicalsolutions.in	Tax Invoice No <b>LSL/INV/23-24/57</b>	Dated <b>June 29, 2023</b>		
	Delivery Note	Mode/Terms of Payment		
	Supplier's Ref. <b>LSL/INV/23-24/57</b>	Other Reference(s)		
<b>Buyer To</b>  <b>M/s. Sri Vasavi Engineering College</b> Pedatadepalli, Tadepalligudem, West Godavari District - 534101 Andhra Pradesh, India	Buyer's Order No. <b>SVEC/Mechanical Engg. Dept./CAD/CAM Lab/PO/2023-24</b>	Dated <b>June 18, 2023</b>		
	Despatch Document No.	Dated		
	Despatched through <b>Electronic Downloadable.</b>	Destination <b>Tadepalligudem</b>		
	Terms of Delivery			
Description of Goods	UOM	Quantity	Unit Price (₹)	Total Price (₹)
SOLIDWORKS Education Edition Network License 2023-24 (60 Users)	Nos	1	4,21,000.00	4,21,000.00
IGST @18%				75,780.00
HSN Code: 998434				
<b>Grand Total</b>		1		4,96,780.00
Amount Chargeable (in words) <b>₹. Four Lakhs Ninety Six Thousand Seven Hundred Eighty Only</b>				E. & O. E.
Cheque/DD in favour of 'LOGICAL SOLUTIONS LIMITED' Company's GSTIN: 36AAACL5476G1ZE Company's PAN No: AAACL5476G				For Logical Solutions Limited  Authorizatory
Declaration We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct.				
Given below our company's Bank Account Details Bank Name : HDFC BANK LIMITED Current Account No : 04182320000290 Company Name : LOGICAL SOLUTIONS LIMITED IF SC Code : HDFC0000418 Branch : GADDIANNARAM BRANCH HYDERABAD - 500 060				
<b>INCOME TAX DECLARATION:</b> We hereby declare that software supplied vide this invoice is transferred without any modification and tax has been deducted under section 195. Hence, no TDS is to be deducted by you on this invoice as per Notification No. 21/2012 [F.No 142/10/2012-SO(TPL)] S.O. 1323(E), Dated 13.06.2012 issued by Ministry of Finance. (Central Board of Direct Taxes.)				