



Research Facilities in Institute

ISI-6, RIICO Institutional Area, Sitapura, Jaipur-302022 (Rajasthan)
• Phone: +91-9829255102, +91-9414728922 • E-mail: principal.pce@poornima.org
• Website: www.pce.poornima.org

Dr. Mahesh Bundele

ISI-6, RIICO Institutional Area Stapura, JAIPUR



Approved by AICTE
Affiliated to Rajasthan Technical University, Kota
Recognized by UGC under Section 2(f) of the UGC Act, 1956

Research Facilities in Department of Electrical Engineering

ISI-6, RIICO Institutional Area, Sitapura, Jaipur-302022 (Rajasthan)
• Phone: +91-9829255102, +91-9414728922 • E-mail: principal.pce@poornima.org

• Website: www.pce.poornima.org

Dr. Mahesh Bundele

Poornima College of Engineering 131-6, RIICO Institutional Area Stlapura, JAIPUR

Research Facilities

S. No	Name of Equipment	Laboratory	Date of purchase se & cost	Bill no. & Date				
	Research Facility in Electric Drives Lab Engineering							
1	3-Phase Induction motors, S.no. A-090270-271, (Rotomatic A-090271, 71)	Electric Drives Lab	9.9.2014	1415/3272/9.9. 2014				
2	AC Synchronous motor, S.no. 983	Electric Drives Lab	9.9.2014	1415/3272/9.9. 2014				
	Research Facility in Electrical Machine Lab Engineering							
3	Control panel OC/SC test of 3 phase transformers	Electrical Machine Lab	20.02.20 06	20.02.2006				
4	Control panel Scott connection of 3 phase transformer	Electrical Machine Lab	20.02.20 06	20.02.2006				
	Research Facilit	y in Protection Lab I	Engineering					
5	Burden effect of CT (setup)	Power System Protection Lab	18.08.20 04	EL8831/18.08. 2004				
6	40 litre oil filtering test set	Power System Protection Lab	10.09.20 12	EL/3764/1213/ 10.09.2012				
7	High voltage circuit breaker testing unit	Power System Protection Lab	10.09.20 12	EL/3764/1213/ 10.09.2012				
8	High voltage transmission line simulation panel	Power System Protection Lab	10.09.20 12	EL/3764/1213/ 10.09.2012				
9	HT & LT bushing, lightening arrester	Power System Protection Lab	10.09.20 12	EL/3764/1213/ 10.09.2012				
Research Facility in Power Electronics Lab Engineering								

10	Phase controlled rectifier SCR Aditron	Power Electronics Lab	24.04.20 04	1061/24.04.200
11	Single Phase Half Controlled Symmetrical & Asymmetrical Rectifier_ET THYSET_5/6 MR	Power Electronics Lab	17.11.20 10	EL5101/17.11. 2010
12	Voltage Commutated Chopper ET THYSET_20 MR	Power Electronics Lab	23.03.20 07	36194/23.03.20 07
13	Single phase PWM inverter Thyristor ET THYSET_25 MR	Power Electronics Lab	23.03.20 07	36193/23.03.20 07
14	Single phase PWM inverter_PET-422	Power Electronics Lab	07.05.20 11	EL01040/07.05 .2011
15	Single phase Parallel inverter ET THYSET_18MR	Power Electronics Lab	23.03.20 07	36193/23.03.20 07
16	Buck Boost Regulator ET THYSET_21 MR	Power Electronics Lab	23.03.20 07	36193/23.03.20 07
17	Control the speed of AC motor using AC Converter with close loop option F/B with fan Rider_Powercon	Power Electronics Lab	15.02.20 06	998/24.02.2006
18	CRO 30 MHz Scientific EE/PE/CRO/4/1	Power Electronics Lab	28.01.20 03	28.01.2003
	Research Facility in Research	a & Development lab	in Electrical Enginee	ring
19	UV machine	Research & Development Lab	01.06.20 12	EL/01465/1213 /01.06.2012
20	Etching Machine	Research & Development Lab	01.06.20 12	EL/01465/1213 /01.06.2012
21	Roller tinning machine	Research & Development Lab	01.06.20 12	EL/01465/1213 /01.06.2012
22	PCB drilling machine	Research & Development Lab	23.01.20 13	EL/06990/1213 /23.01.2013
23	Photo Resist Dip Coating Machine	Research & Development Lab	01.06.20 12	EL/01465/12- 13/01.06.2012

24	Dye Developer machine	Research & Development Lab	23.01.20 13	EL/06990/12- 13/23.01.2013			
Research Facility in PLC/SCADA lab in Electrical Engineering							
25	Computerised Variable Compression Ratio Diesel Engine coupled with Eddy current dynamometer	PLC/SCADA lab	10.09.20 15	08750/1563/10. 09.15			
26	PLC based monitoring and sequence controller system	PLC/SCADA lab	10.09.20 15	08790/1568/10. 09.15			



Equipment Name: 3-Phase Induction motors

Make and Model: Powercon

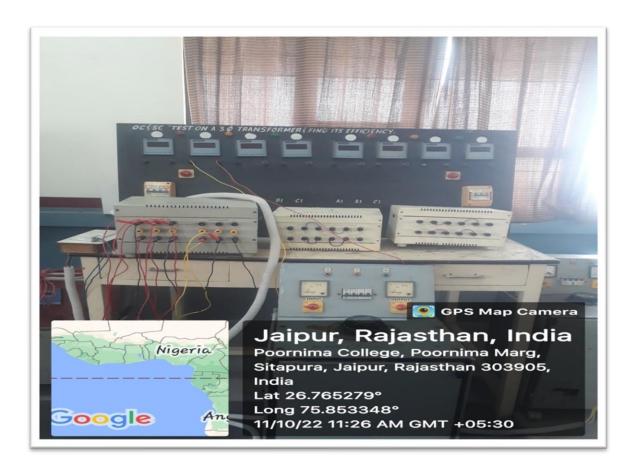
Cost: Rs. 16000/- **Year of Purchase:** 9.9.2014



Equipment Name: AC Synchronous motor

Make and Model: Powercon

Cost: Rs. 32000/- Year of Purchase: 9.9.2014



Equipment Name: Control Panel OC/SC Test of 3 Phase Transformer

Make and Model: PCE/EE/000173 Cost: Rs. 45000/ - Year of Purchase: 9.9.2014



Equipment Name: Control Panel Scott Connection of 3 Phase Transformer

Make and Model: PCE/EE/000148

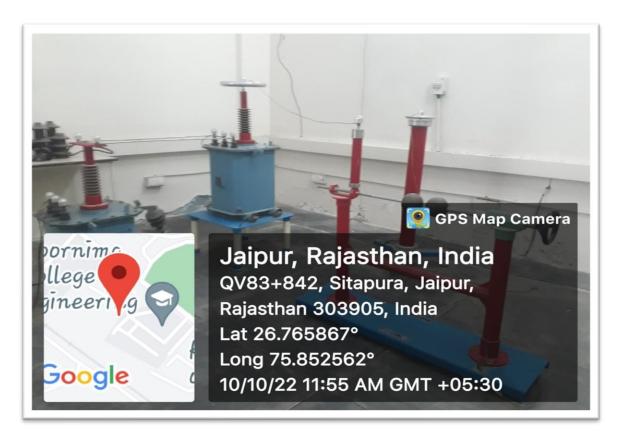
Cost: Rs. 67000/- **Year of Purchase:** 9.9.2014



Equipment Name: Burden Effect of CT

Make and Model: Powercon

Cost: Rs. 50000/- **Year of Purchase:** 18.08.2004



Equipment Name: HT & LT bushing, lightening arrester **Make and Model:** High voltage (INDIA)

Cost: Rs. 57000/- **Year of Purchase:** 9.9.2014



Equipment Name: Oil Testing Machine **Make and Model:** Protection systems (INDIA)

Cost: Rs. 87000/- Year of Purchase: 9.9.2014



Equipment Name: High voltage transmission line simulation panel

Make and Model: Protection systems (INDIA)

Cost: Rs. 75000/- Year of Purchase: 9.9.2014



Equipment Name: Transformer oil filtering Machine **Make and Model:** High voltage (INDIA)

Cost: Rs.150000/- **Year of Purchase:** 9.9.2014

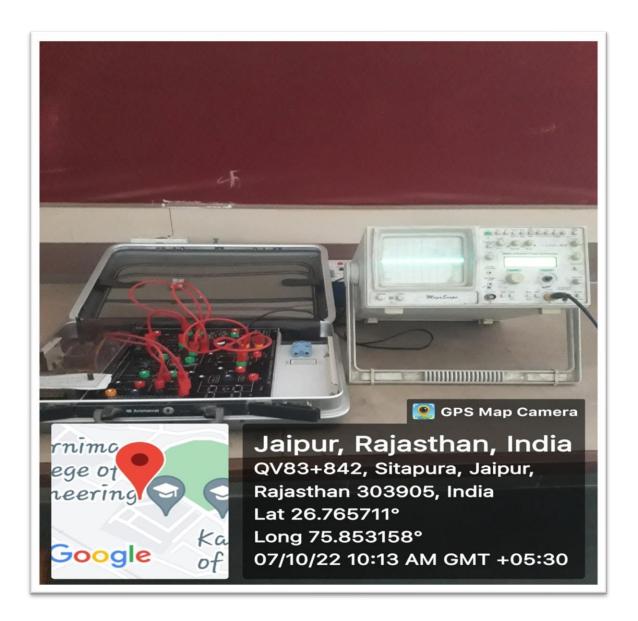


Equipment Name: Single Phase Half Controlled Symmetrical &

Asymmetrical Rectifier

Make and Model: ET THYSET_5/6 MR

Cost: Rs. 25000/- **Year of Purchase:** 17.11.2010

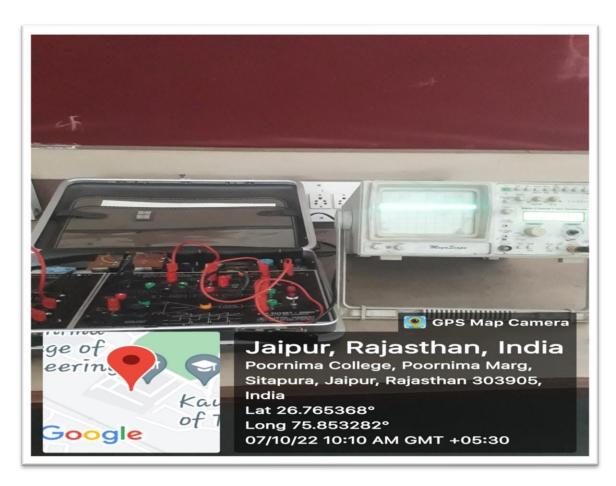


Equipment Name: Voltage Commutated Chopper **Make and Model:** ET THYSET_20 MR

Cost: Rs. 21500/- **Year of Purchase:** 23.03.2007



Equipment Name: Single phase PWM inverter Make and Model: OMEGA PET-422 Cost: Rs. 25000/- Year of Purchase: 23.03.2007



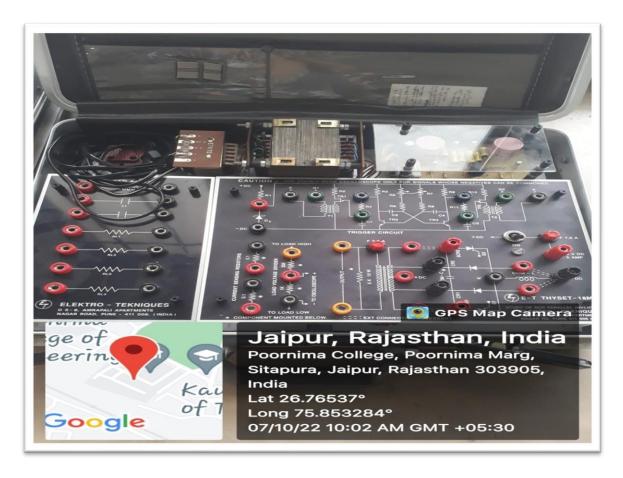
Equipment Name: Single phase Parallel inverter **Make and Model:** ET THYSET_18MR

Cost: Rs. 14500/- Year of Purchase: 23.03.2007



Equipment Name: Buck Boost Regulator **Make and Model:** ET THYSET_21 MR

Cost: Rs.25000/- Year **of Purchase:** 23.03.2007



Equipment Name: Control the speed of AC motor using AC Converter with close loop option F/B with fan Rider **Make and Model:** Powercon

Cost: Rs.35000/- Year of Purchase: 15.02.2006



Equipment Name: Buck, Boost and Buck Boost regulator

Make and Model: ET-Thyeset-21MR

Cost: Rs.35000/- **Year of Purchase:** 23.03.2007



Equipment Name: UV machine

Make and Model: Ultra II

Cost: Rs.125000/- Year **of Purchase:** 01.06.2012



Equipment Name: Roller tinning machine

Make and Model: Ultra II

Cost: Rs.56000/- **Year of Purchase:** 01.06.2012



Equipment Name: Photo Resist Dip Coating Machine

Make and Model:

Cost: Rs. 26500/- Year of Purchase: 2012

Department of Electrical Engineering

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B.E., M.E., Ph.D.
Director
Cornima College of Engineering
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Stapura, Jainus



Equipment Name: Etching Machine

Make and Model: ULTRA-II

Cost: Rs.135000/- **Year of Purchase:** 2012



Equipment Name: Dye Developer Machine

Make and Model: ME-5755DR-4

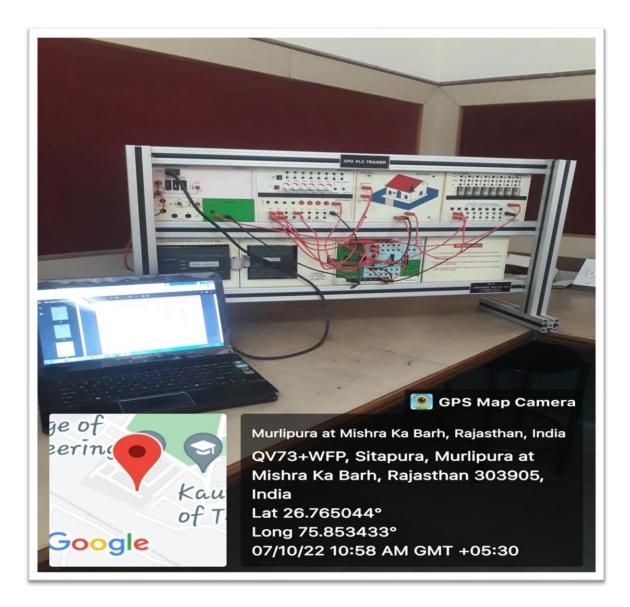
Cost: Rs.95000/- Year of Purchase: 2013



Equipment Name: PCB drilling machine

Make and Model: ME-5565DR-2

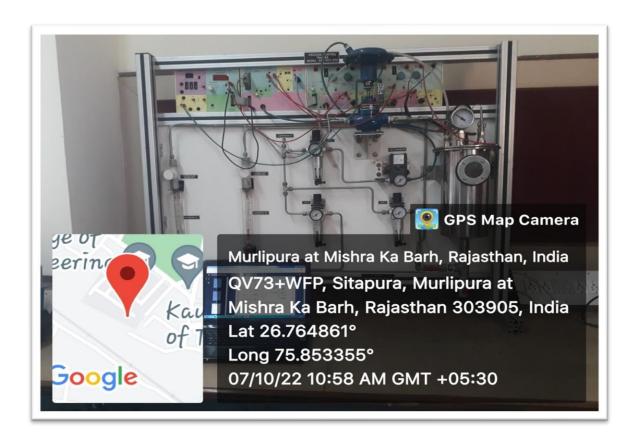
Cost: Rs. 175000/- **Year of Purchase:** 2013



Equipment Name: PLC based monitoring and sequence controller system

Make and Model: Technical Teaching Equipments, Bangalore (Kirloskar TV1)

Cost: Rs.13,15,139/- **Year of Purchase:** 2015



Equipment Name: Computerised Variable Compression Ratio Diesel Engine coupled with Eddy current dynamometer

Make and Model: Technical Teaching Equipment, Bangalore (Kirloskar TV1)

Cost: Rs.11,25,139/-**Year of Purchase:** 2015



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Dr. Mahesh Bundele B.E., M.E., Ph.D. Director

31-6, RIICO Institutional Area

Stapura, JAIP

Research Facilities

S.	Name of				
No	Equipment	Laboratory	Quantity	Cost	Bill no. & Date
1	SENSE- nut ProLab	Advancement in Wireless & Optical Fiber Lab	1	4,72,000/-	EGIEN/1819/T-72/25.3.2019
2	Advanced Fiber Optic Communication Trainer	Advancement in Wireless & Optical Fiber Lab	2	94,400/-	SAL-0145/ 27/03/2019
3	Power Meter	Advancement in Wireless & Optical Fiber Lab	1	35,400/-	SAL-0145/ 27/03/2019
4	ENA Vector Analyzer	Advanced Microwave Engineering Lab	1	8,37,000/-	SAL-0069/ 16/12/2019
			1	2,14,209/-	EL/01673/12-13/ 09/06/2012
5	Antenna Trainer Kit	Wireless Communication Lab	5	5,84,588/-	EL/03507/12-13/ 30/08/2012
			1	2,14,200/-	EL/01678/12-13/ 09/06/2012
	D 1 T W.	Radar Trainer Kit Wireless Communication Lab	2	1,12,613/-	EL/012271/12- 13/ 24/05/2012
6	Radar Trainer Kit		1	51,350/-	EL/3930/09-10/ 10-09-2009
	7 Satellite Trainer Kit Wireless Commu Lab	Wireless Communication	2	1,68,919/-	EL/01299/12-13/ 28/05/2012
/		Lab	1	80,106/-	EL/3423/09-10/ 24/08/2009
	GDG TI I W	Wireless Communication	1	40,258/-	EL/3308/09-10/ 19/08/2009
8	GPS Trainer Kit	Lab	2	85,893/-	EL/01153/12-13/ 12/05/2012
9	Logic Analyzer Kit	Wireless Communication Lab	1	58,745/-	EL/3423/09-10/ 24/08/2009
	Fiber Optic Trainer Kit	per Optic Trainer Kit Wireless Communication Lab	4	61,103/-	EL/07307/11-12/ 23/01/2012
10			3	71,820/-	EL/00199/11-12/ 11/04/2011
			2	35,256/-	EL/05677/15-16/ 05/01/2016
1.1	CDMA DSSS Trainer Wireless Communication		1	1,44,602/-	EL/3423/09-10/ 24/08/2009
11	Kit	Lab	2	3,42,672/-	EL/01153/12-13/ 12/05/2012

Department of Electronics & Communication Eng Re Mahesh Bundele

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12	Digital Storage Oscilloscope	Wireless Communication Lab	8	1,86,900/-	SAL-040/ 03/08/2015
13	SENSE- nut interface Software	Advancement in Wireless & Optical Fiber Lab	1	Mention in Above	EGIEN/1819/T-72/25.3.2019
14	CST MW Software 2020 (20 Users)	Advanced Microwave Engineering Lab	20 users	1,53,400/-	R-191/ 2019-20/ 16/12/2019
1.5		Wireless Communication Lab	1	2,20,000/-	TS/20-21/0065/ 23/09/2020
15	Spectrum Analyzer		1	98,666/-	EL/2631/10-11/ 30/07/2010
16	Optical Communication Software (Optisystem Version-16)	Advancement in Wireless & Optical Fiber Lab	2 users	6,90,300/-	HRU/2018- 19/17/ 26/03/2019
17	Digital Signal Processing Development	Wireless Communication Lab	10	3,38,000/-	EL/3027/09-10/ 03/08/2009
18	FPGA Trainer Kit	Wireless Communication	6	96,154/-	EL/07626/12-13/ 19/02/2013
	(mission 10X)	Lab	4	53,193/-	EL/07082/11-12/ 13/01/2012
19	Raspberry Pi	IOT Lab	1	3,500/-	MIC299/ 28/02/2020
17	Raspocity 11	TOT Lab	9	31,500/-	MIC299/ 28/02/2020
			4	2,41,250/-	EL /1200/10 11/
	Microwave Test Bench	ch Microwave Lab	2	1,44,750/-	EL/1308/10-11/ 31/05/2010
20			3	1,35,100/-	31/05/2010
			2	1,49,948/-	EL/1240/12-13/ 25/05/2012
21	RF/ Microwave Circuit Board	Microwave Lab	1	2,36,000/-	SAL-0069/ 16/12/2019
22	Advanced MIC Trainer Kit	Microwave Lab	2	2,53,151/-	El/03065/17- 18/25/05/2017
23	Art Work Film Maker Proto Contact	Project Lab	1	15106/-	
24	PCB Curing Machine	Project Lab	1	12450/-	E1/6720/07 00/
25	PCB Photo resist Dip Coat	Project Lab	1	19090/-	El/6739/07-08/ 22-01-2008
26	PCB UV Exposure Proto	Project Lab	1	19920/-	
27	PCB Etching Machine	Project Lab	1	19712/-	

Department of Electronics & Communication Eng ReMahesh Bundele

28	PCB Drilling Machine	Project Lab	1	13280/-	
29	PCB Shearing Machine	Project Lab	1	11620/-	El/6739/07-08/
30	PCB Tinning Machine	Project Lab	1	27390/-	22-01-2008
31	PCB Proto Dye Developer Machine	Project Lab	1	17430/-	
32	PCB Artwork Table Illuminated	Project Lab	1	7470/-	
33	PCB Etching Machine	Project Lab	1	17818/-	EL/155/10-11/ 09-04-2010

SENSEnuts Kit



SENSEnuts Modules



Equipment Name: SENSEnut ProLab Make and Model: EIGEN Technologies Pvt. Ltd

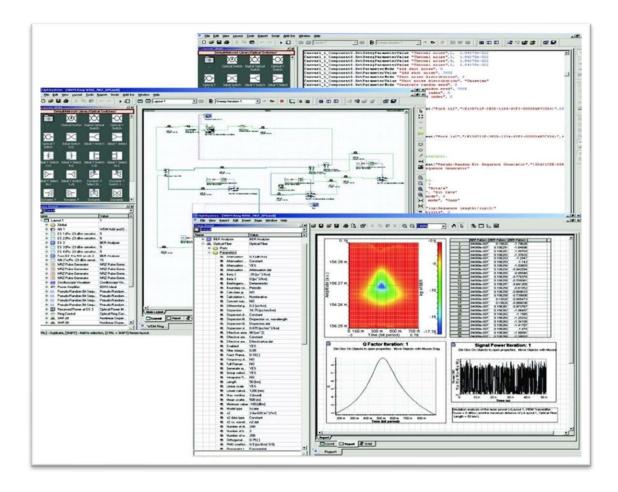
Cost Rs. 4,72,000/-

Bill No.: EGIEN/1819/T-72/25.3.2019

Year of Purchase: 2019

Department of Electronics & Communication Eng Re Mahesh Bundel

Opti-system 17.1



Equipment Name: Opti-system Version-17.1

USER: 2 users

Make and Model: Optiwave Photonic Software

Cost Rs. 6,90,300/-

Bill No.: HRU/2018-19/17/ 26/03/2019

Year of Purchase: 2019

Advanced Fibre Optical Communication Training Kit



Equipment Name: Advanced Fiber Optic Communication

Trainer

Make and Model: Optiwave Photonic Software

Cost Rs.: 94,400/-

Bill No.: SAL-0145/27/03/2019

Year of Purchase: 2019

Department of Electronics & Communication Eng Re Mighesh Bundel

ENA vector network Analyzer



Equipment Name: ENA vector network Analyzer Make and Model: keysight technologies

Cost Rs.: 8,37,000/-

Bill No.: SAL-0069/16/12/2019

Year of Purchase: 2019

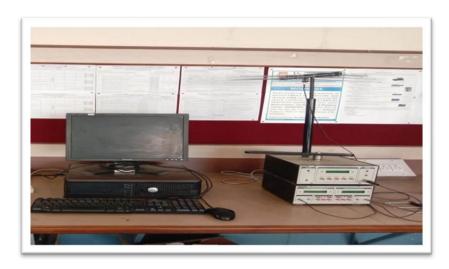
Power Meter



Equipment Name: Power Meter Make and Model: Techtest Cost Rs.: 35,400/-

Bill No. : SAL-0145/ 27/03/2019 Year of Purchase: 2019

Antenna Trainer Kit





Equipment Name: Antenna Trainer Kit. Make and Model: Amitech India Pvt Ltd Cost Rs.: 1. 2,14,209/- 2. 5,84,588/- 3. 2,14,200/-

Bill No.: 1. EL/01673/12-13/09/06/2012

2. EL/01678/12-13/ 09/06/2012

3. EL/01678/12-13/09/06/2012

Year of Purchase: 2012

GPS Trainer Kit



Equipment Name: GPS Trainer Make and Model: Scientech Technology re

Cost Rs.: 1. 40,258/- 2. 85,893/-

Bill No.: 1. EL/3308/09-10/19/08/2009

2. EL/01153/12-13/ 12/05/2012 Year of Purchase: 2009, 2012

Department of Electronics & Communication Eng RecMahesh Bundel

Satellite Communication Trainer Kit



Equipment Name: Satellite Communication Trainer Kit

Make and Model: Scientech Technology

Cost Rs.: 1. 1,68,919/- 2. 80,106/-

Bill No.: 1. EL/01299/12-13/ 28/05/2012

2. EL/3423/09-10/24/08/2009

Year of Purchase: 2009, 2012

RADAR Trainer Kit



Equipment Name: Radar Trainer Make and Model: Scientech Technology

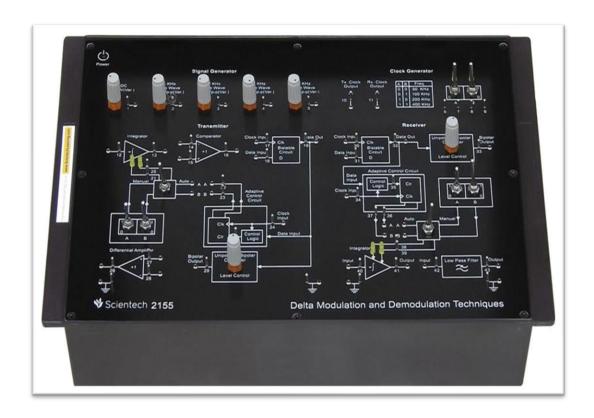
Cost Rs.: 1. 1,12,613/- 2. 51,350/-

Bill No.: 1. EL/012271/12-13/24/05/2012

2. EL/3930/09-10/ 10-09-2009 Year of Purchase: 2009, 2012

Department of Electronics & Communication Eng RecMahesh Bundel

CDMA Trainer Kit



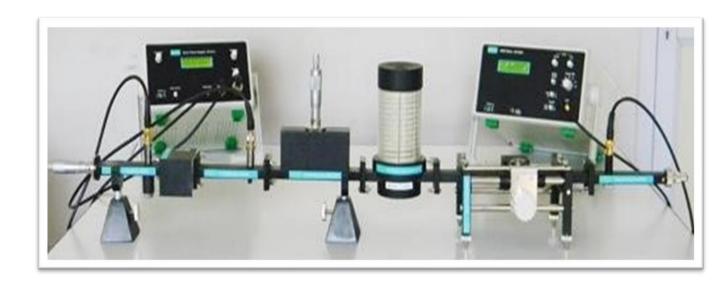
Equipment Name: CDMA Trainer Kit Make and Model: Scientech Technology re

Cost Rs.: 1. 1,44,602/- 2. 3,42,672/-Bill No. : 1. EL/3423/09-10/ 24/08/2009

> 2. EL/01153/12-13/ 12/05/2012 Year of Purchase: 2009, 2012

Department of Electronics & Communication Eng RecMahesh Bundel

Microwave Test Bench Trainer Kit



Equipment Name: Microwave Test Bench

Make and Model: NVIS

Cost Rs.: 1. 521100/- 2. 1,49,948/-

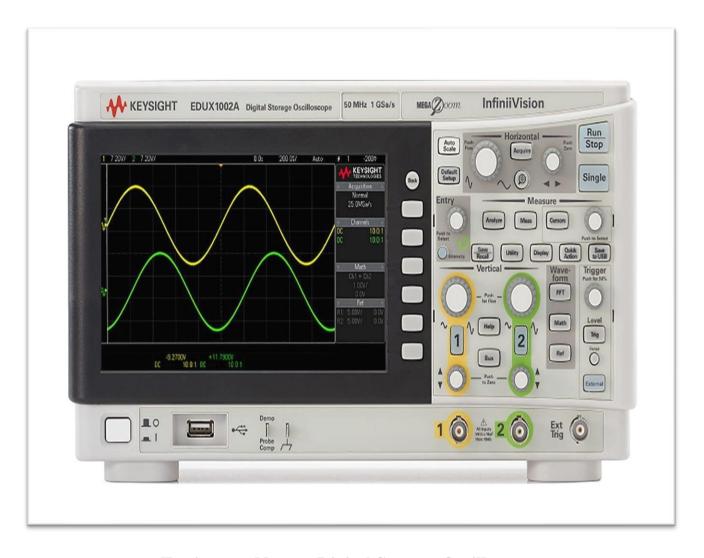
Bill No.: 1. EL/1308/10-11/31/05/2010

2. EL/1240/12-13/ 25/05/2012

Year of Purchase: 2010

Department of Electronics & Communication Eng Re Mahesh Bundel

Digital Storage Oscilloscope



Equipment Name: Digital Storage Oscilloscope Make and Model: keysight technologies

Cost: Rs.: 1,86,900/-

Bill No. : SAL-040/ 03/08/2015

Year of Purchase: 2015

FPGA Trainer Kit





Equipment Name: FPGA Development Board

Make and Model: Scientech technology

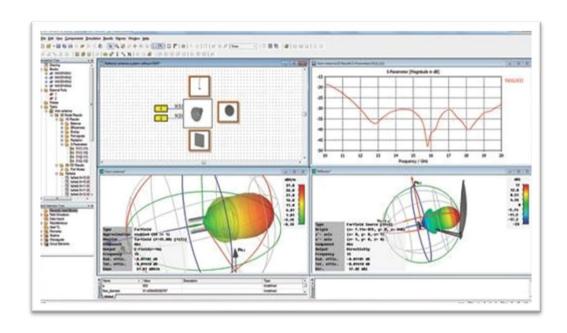
Cost: Rs.: 1. 96,154/- 2. 53,193/-

Bill No.: 1. EL/07626/12-13/ 19/02/2013

2. EL/07082/11-12/ 13/01/2012

Year of Purchase: 2012, 2013

CST Studio Suite



Equipment Name: CST STUDIO SUITE (Software)

Make and Model: Dassault Systems

User: 20 Users Cost: Rs.: 1,53,400/-

Bill No.: R-191/2019-20/16/12/2019

Year of Purchase: 2019

Department of Electronics & Communication Eng Re Mahesh Bundel



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Research Facilities in Department of Mechanical Engineering

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Dr. Mahesh Bundele B.E., M.E., Ph.D. Director

Research Facilities

S. No	Name of Equipment	Laboratory	Date of purchase	Bill no.
1	Refrigeration Test Rig	Thermal Lab	05/10/2016	SAL-037
2	3D Printer	CAD Lab	15/07/2020	L3d/inv/2020- 21/005
3	High Speed 3D Printer	CAD Lab	22/05/2022	SG/22-23/011
4	Vickers Hardness Test	Material Testing Lab	05/10/2016	SAL-037
5	Disc Polishing Machine	Material Testing Lab	05/10/2016	SAL-037
6	Digital Vernier Calliper	Material Testing Lab	05/10/2016	SAL-037
7	Muffle Furnace	Material Testing Lab	05/10/2016	SAL-037
8	Universal Vibration Apparatus	Vibration Lab	18/07/2015	EME/32/15- 16/TRD
9	Critical Shaft Speed Apparatus	Vibration Lab	18/07/2015	EME/32/15- 16/TRD
10	Emissivity Measurement Apparatus	Thermal Lab	01/01/2017	123758
11	Parallel and Counter Flow Double Heat Exchanger Apparatus	Thermal Lab	18/07/2015	EME/32/15- 16/TRD
12	TIG Welding	P&I Lab	08/09/2016	SAL-025
13	SPOT Welding	P&I Lab	10/07/2015	SAL-18
14	MIG Welding	P&I Lab	10/06/2017	SAL-013
15	Submerged Arc Welding	P&I Lab	08/09/2016	SAL-013

Dr. Mahesh Bundele
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Stlapura, JAIPUR



Equipment Name: Lathe Machine

Dr. Mahesh Bundele

Department of Mechanical Engineering

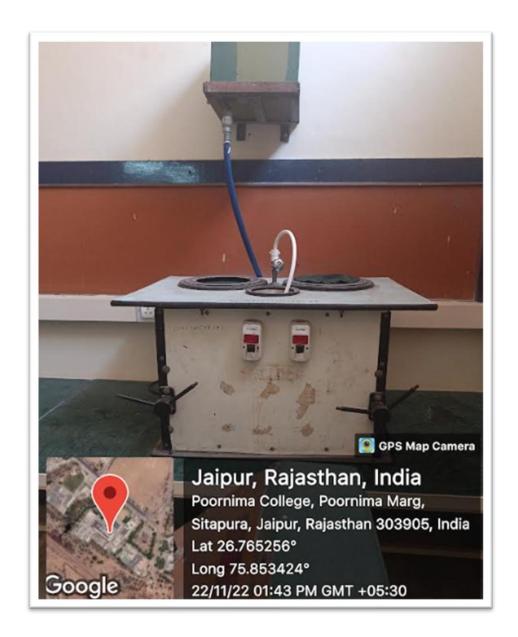


Submerged Arc Welding

Department of Mechanical Engineering

Page 50

Dr. Mahesh Bundele B.E., M.E., Ph.D. Director



Surface Polishing Machine

Department of Mechanical Engineering

Director
Cornima College of Engineering
ISI-6, FUICO Institutional Area
Stapura, JAIPUR



Refrigeration and Air Conditional Experimental Setup

Dr. Mahesh Bung

Department of Mechanical Engineering







Experimental Setup

Dr. Mahesh Bundele

Department of Mechanical Engineering



Electrical Vehicle Setup

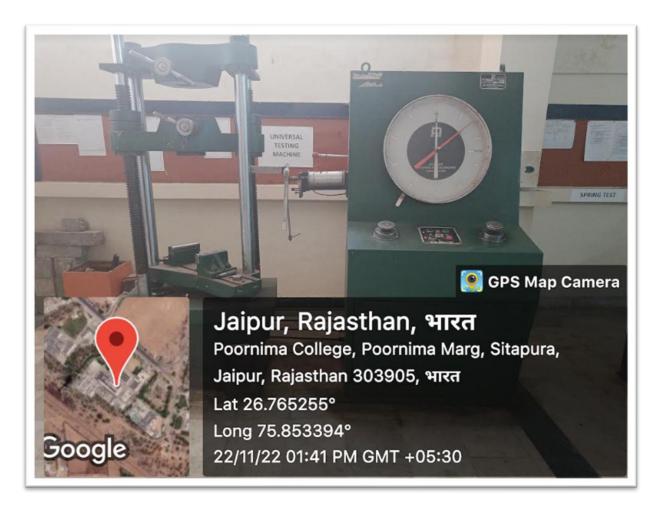
Dr. Mahesh Bundele B.E., M.E., Ph.D Director



High Speed Three-Dimensional (3D) Printer

Dr. Mahesh Bundele

Department of Mechanical Engineering



Universal Testing Machine

Dr. Mahesh Bundele

Department of Mechanical Engineering



Vickers Hardness Tester

Department of Mechanical Engineering

B.E., M.E., Ph.D.
Director
Cornima College of Engineerin
ISI-6, FUICO Institutional Area



Solar Energy based Experimental Setup

Dr. Mahesh Bu

Department of Mechanical Engineering



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Research Facilities in Department of Civil Engineering

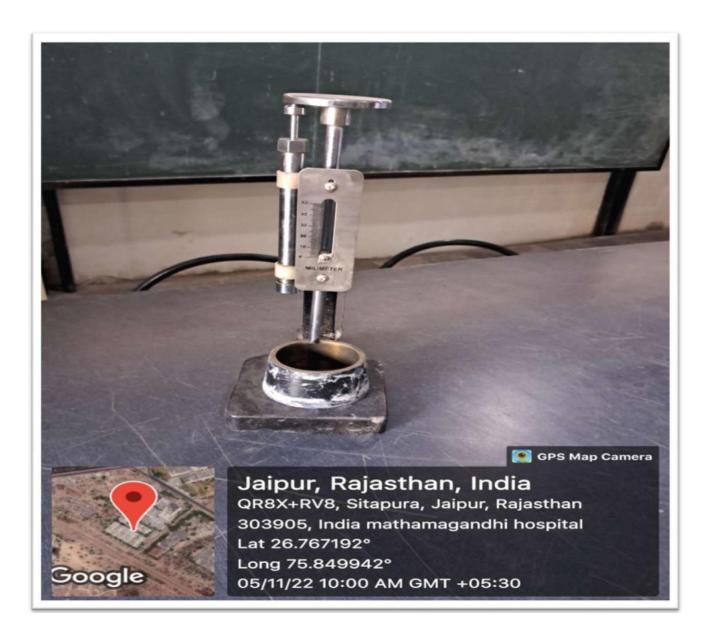
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Or. Mahesh Bundele B.E., M.E., Ph.D. Director

Research Facility in Geotechnical Engineering Lab

			8 8	
S. No.	Name of Equipment	Laboratory	Date of purchase & cost	Bill no. & Date
1	CORE-CUTTER APPARATUS	GEOTECHNICAL LAB	2/6/2014 2100/-	8 2/6/2014
2	CONE PENTOMETER APPARATUS	GEOTECHNICAL LAB	2/6/2014 3600/-	8 2/6/2014
3	PERMEABILITY TEST APPARATUS	GEOTECHNICAL LAB	2/6/2014 22500/-	9 2/6/2014
4	CBR TEST APPARATUS	GEOTECHNICAL LAB	2/6/2014 74500/-	9 2/6/2014
5	CONSOLIDATION TEST APPARATUS	GEOTECHNICAL LAB	2/6/2014 46000/-	9 2/6/2014
6	DIRECT SHEAR TEST APPARATUS	GEOTECHNICAL LAB	2/6/2014 70600/-	9 2/6/2014
7	TRI- AXIAL TEST APPARATUS	GEOTECHNICAL LAB	2/6/2014 138000/-	9 2/6/2014
8	UNCONFINED COMMPRESSION TEST APPARATUS	GEOTECHNICAL LAB	2/6/2014 41800/-	8 2/6/2014
9	OVEN	GEOTECHNICAL LAB	2/6/2014 9400/-	9 2/6/2014
10	PLASTIC LIMIT APPARATUS	GEOTECHNICAL LAB	2/6/2014 1700/-	8 2/6/2014
11	PROCTER TEST (LIGHT)	GEOTECHNICAL LAB	2/6/2014 4200/-	82/6/2014
12	PROCTER TEST (HEAVY)	GEOTECHNICAL LAB	2/6/2014 6800/-	8 2/6/2014
13	CASSAGRANDE APPARATUS	GEOTECHNICAL LAB	2/6/2014 1300/-	8 2/6/2014

Research Facility in Civil Engineering Material



Equipment Name: V CAT APPARATUS

Make and Model: ENGINEERING MODELS & EQUIPMENT

Cost: Rs. 2600/- Year of Purchase: 2012

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Cornima College of Engineering
ISI-6, Filico Institutional Area
Stapura, JAIPUR



Equipment Name: WATER BATH Make and Model: ENGINEERING MODELS & EQUIPMENT Cost: Rs. 8800/- Year of Purchase: 2012

Dr. Mahesh Bundele Director cornima College of Engineering 131-6, RIICO Institutional Area Stapura, JAIPUR

Department of Civil Engineering



Equipment Name: WEIGHT BALANCE MACHINE Make and Model: ENGINEERING MODELS & EQUIPMENT

Cost: Rs. 8500/- Year of Purchase: 2012

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Cornima College of Engineering
ISI-6, FIICO Institutional Area
Stapura, JAIPUR



Equipment Name: BLAIN'S AIR PERMABILITY APPARATUS Make and Model: ENGINEERING MODELS & EQUIPMENT

Cost: Rs. 2200/- Year of Purchase: 2020

Department of Civil Engineering

Director
Cornima College of Engineering
131-6, RIICO Institutional Area
Stapura, JAIPUR

esh Bundele

Dr. Mah



Equipment Name: CONCRETE PERMABILITY TEST AP APPARATUS

Make and Model: ENGINEERING MODELS & EQUIPMENT

Cost: Rs. 61600/- Year of Purchase: 2020

Department of Civil Engineering

Director

Director

Cornima College of Engineering

Si-6, RilCO Institutional Area

Dr. Mah



Equipment Name: BEAM
Make and Model: ENGINEERING MODELS & EQUIPMENT

Cost: Rs. 3200/- Year of Purchase: 2020

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Cornima College of Engineering



Equipment Name: FLEXURAL STRENTH BEEM
Make and Model: ENGINEERING MODELS & EQUIPMENT

Cost: Rs. 1200/- Year of Purchase: 2020



Equipment Name: COMPRESSION TESTING MACHINE Make and Model: ENGINEERING MODELS & EQUIPMENT

Cost: Rs.80500/-Year of Purchase: 2012

Department of Civil Engineering

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Cornima College of Engineering
ISI-6, RIICO Institutional Area
Stlapura, JAIPUR



Equipment Name: CONCRET MIXER Make and Model: ENGINEERING MODELS & EQUIPMENT

Cost: Rs.65000/- Year of Purchase: 2017

Department of Civil Engineering

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Cornima College of Engineering
131-6, RIICO Institutional Area
Stapura, JAIPUR



Equipment Name: FLOW TABLE

Make and Model: ENGINEERING MODELS & EQUIPMENT Cost: Rs.15700/- Year of Purchase: 20120

Dr. Mahesh Bundele
B.E. M.E. Ph.D.

Department of Civil Engineering



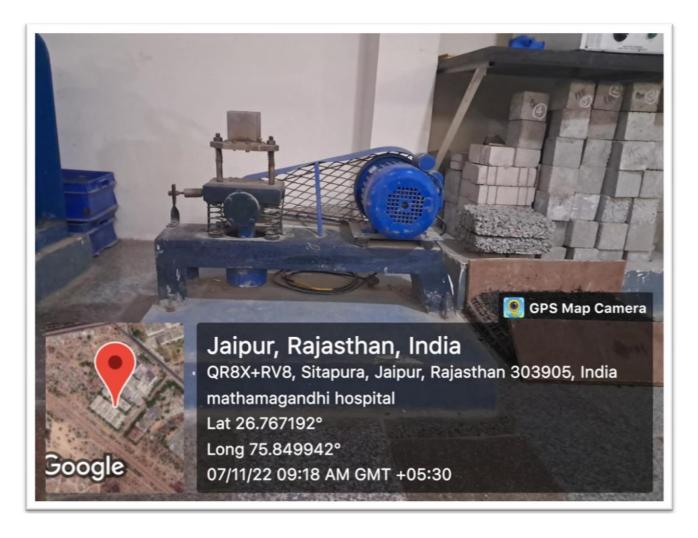
Equipment Name: REBOUND HAMMER
Make and Model: SHIVAM ENTERPRISES
Cost: Rs.9400/- Year of Purchase: 2016



Equipment Name: SLUMP TEST APPARATUS Make and Model: ENGINEERING MODELS & EQUIPMENT

Cost: Rs.2100/- Year of Purchase: 2012

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Cornima College of Engineering
ISI-6, RIICO Institutional Area
Stlapura, JAIPUR



Equipment Name: VIBRATING TABLE
Make and Model: ENGINEERING MODELS & EQUIPMENT
Cost: Rs. 23800/- Year of Purchase: 2012

Dr. Mahesh Bunde

Research Facility in Road Material Engineering



Equipment Name: AGGRAGATE IMPACT TEST APPARATUS Make and Model: ENGINEERING MODELS & EQUIPMENT

Cost: Rs.8500/- Year of Purchase: 2013

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Cornima College of Engineering



Equipment Name: DUCTILITY TEST APPARATUS
Make and Model: ENGINEERING MODELS & EQUIPMENT

Cost: Rs. 48100 /- Year of Purchase: 2013

Department of Civil Engineering

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Cornima College of Engineering
ISI-6, RIICO Institutional Area
Stlapura, JAIPUR

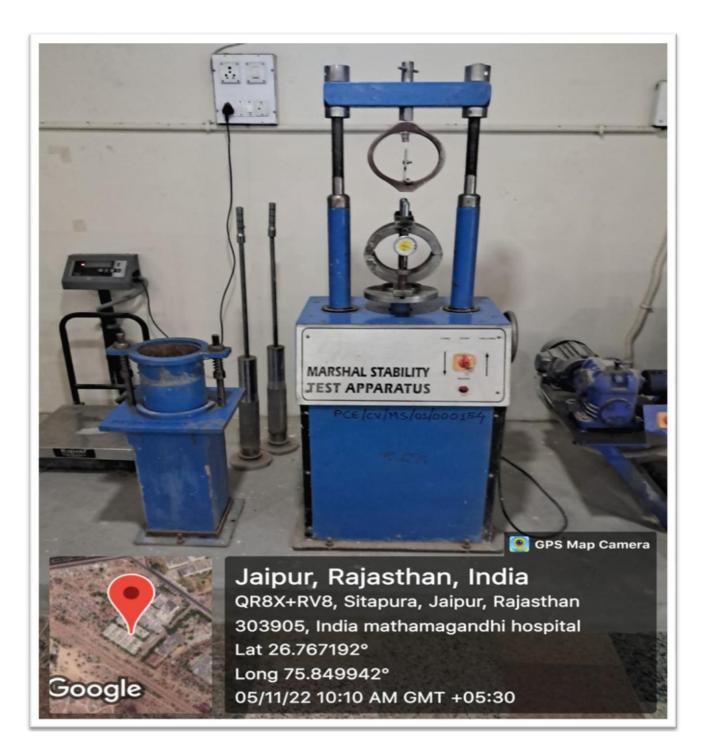


Equipment Name: LOS ANGELES ABRASSION TESTING MACHINE Make and Model: ENGINEERING MODELS & EQUIPMENT

Cost: Rs.62500/- Year of Purchase: 2013

Department of Civil Engineering

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
cornima College of Engineering
ISI-6, RIICO Institutional Area
Stlapura, JAIPUR



Equipment Name: MARSHAL APPARATUS Make and Model: ENGINEERING MODELS & EQUIPMENT

Cost: Rs.65200/- Year of Purchase: 2013

Department of Civil Engineering



Equipment Name: RING & BALL APPARATUA
Make and Model: ENGINEERING MODELS & EQUIPMENT

Cost: Rs.7600/- Year of Purchase: 2013

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Cornima College of Engineering



Equipment Name: STANDERD TAR VISCOMETER Make and Model: ENGINEERING MODELS & EQUIPMENT

Cost: Rs. 7600/-Year of Purchase: 2013

Department of Civil Engineering

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
cornima College of Engineering
131-6, RIICO Institutional Area
Stlapura, JAIPUR

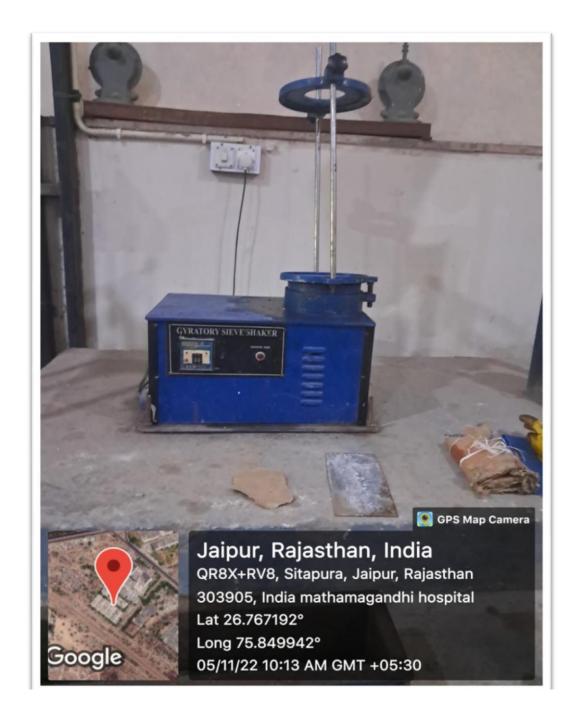


Equipment Name: CRUSHING VALUE APPARATUS Make and Model: ENGINEERING MODELS & EQUIPMENT

Cost: Rs.6700/- Year of Purchase: 2013

Department of Civil Engineering

Director cornima College of Engineering 31-6, RIICO Institutional Area Stlapura, JAIPUR



Equipment Name: SIEVE SHAKER

Make and Model: ENGINEERING MODELS & EQUIPMENT

Cost: Rs.23800/- Year of Purchase: 2013

Department of Civil Engineering

Director
ornima College of Engineering
31-6, RIICO Institutional Area
Stlapura, JAIPUR

Research Facility in Geotechnical Engineering



Equipment Name: CORE CUTTER APPARATUS Make and Model: ENGINEERING MODELS & EQUIPMENT

Cost: Rs.2100/- Year of Purchase: 2014

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Continua College of Engineering
ISI-6, RIICO Institutional Area
Stlapura, JAIPUR



Equipment Name: CONE PENTOMETER APPARATUS Make and Model: ENGINEERING MODELS & EQUIPMENT

Cost: Rs.3600/- Year of Purchase: 2014

Department of Civil Engineering



Equipment Name: PERMEABILITY TEST APPARATUS
Make and Model: ENGINEERING MODELS & EQUIPMENT

Cost: Rs. 22500/- Year of Purchase: 2014



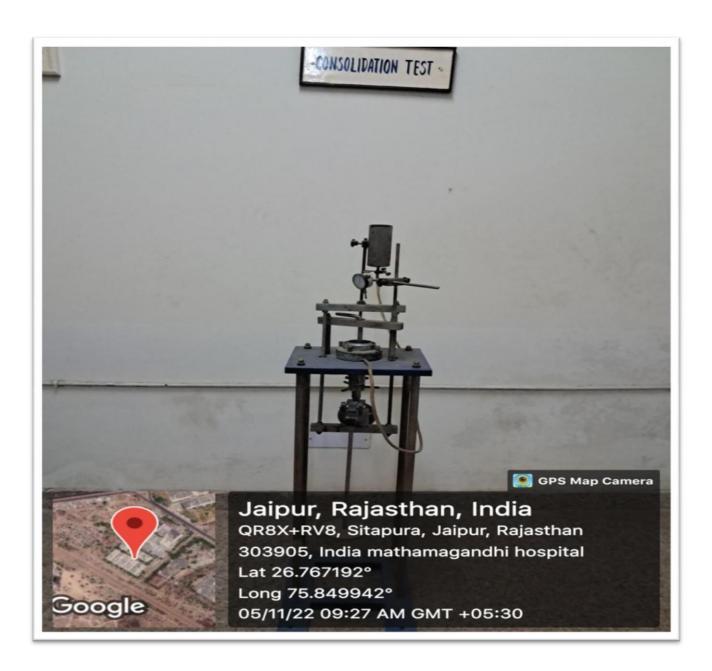
Equipment Name: CBR TEST APPARATUS

Make and Model: ENGINEERING MODELS & EQUIPMENT

Cost: Rs. 74500/- Year of Purchase: 2014

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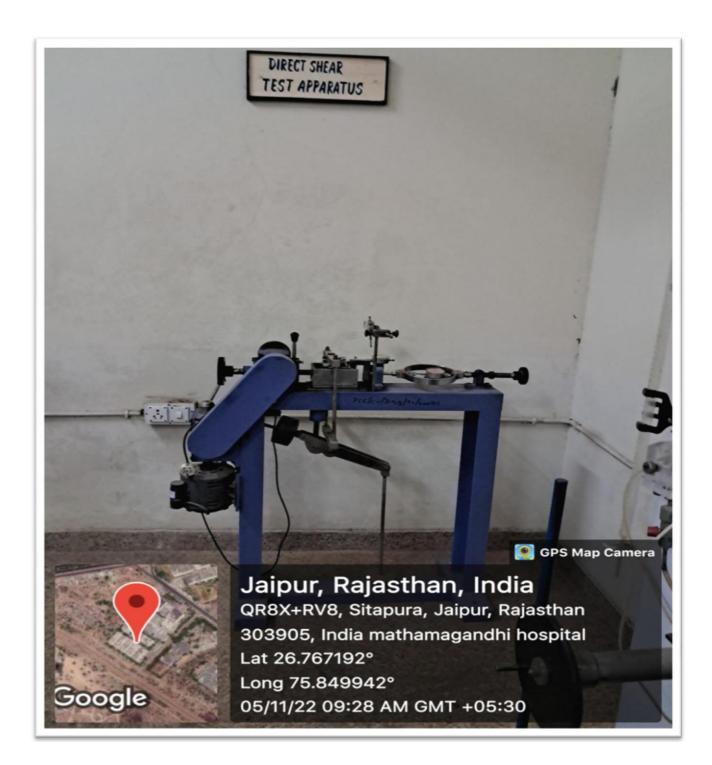
Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Cornima College of Engineering
ISI-6, FUICO Institutional Area
Stapura, JAIPUR



Equipment Name: CONSOLIDATION TEST APPARATUS Make and Model: ENGINEERING MODELS & EQUIPMENT

Cost: Rs. 46000/- Year of Purchase: 2014

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Cornima College of Engineerin



Equipment Name: DIRECT SHEAR TEST APPARATUS Make and Model: ENGINEERING MODELS & EQUIPMENT

Cost: Rs. 70600/- Year of Purchase: 2014

Department of Civil Engineering



Equipment Name: TRI- AXIAL TEST APPARATUS
Make and Model: ENGINEERING MODELS & EQUIPMENT

Cost: Rs. 138000/- Year of Purchase: 2014

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Cornima College of Engineering
181-6, Fill CO Institutional Area
Stapura, JAIPUR



Equipment Name: UNCONFINED COMMPRESSION TEST APPARATUS Make and Model: ENGINEERING MODELS & EQUIPMENT

Cost: Rs.4 1800/- Year of Purchase: 2014

Department of Civil Engineering



Equipment Name: OVEN

Make and Model: ENGINEERING MODELS & EQUIPMENT

Cost: Rs.9400/- Year of Purchase: 2014

ng

Dr. Mahesh Bundele

Director
cornima College of Engineering
131-6, RIICO Institutional Area
Stlapura, JAIPUR



Equipment Name: PLASTIC LIMIT APPARATUS
Make and Model: ENGINEERING MODELS & EQUIPMENT
Cost: Rs.1700/- Year of Purchase: 2014

Department of Civil Engineering

Director

Cornima College of Engineering

Si-6, RIICO Institutional Area



Equipment Name: PROCTER TEST (LIGHT)

Make and Model: ENGINEERING MODELS & EQUIPMENT

Cost: Rs.4200/- Year of Purchase: 2014

Department of Civil Engineering

Director
Cornima College of Engineering
Si-6, RIICO Institutional Area



Equipment Name: PROCTER TEST (HEAVY)
Make and Model: ENGINEERING MODELS & EQUIPMENT

Cost: Rs.6800/- Year of Purchase: 2014

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Cornima College of Engineering
ISI-6, RIICO Institutional Area



Equipment Name: CASSAGRANDE APPARATUS
Make and Model: ENGINEERING MODELS & EQUIPMENT

Cost: Rs.5200/- Year of Purchase: 2014

Dr. Mahesh Bundele B.E., M.E., Ph.D. Director



Approved by AICTE
Affiliated to Rajasthan Technical University, Kota Recognized by UGC under Section 2(f) of the UGC Act, 1956

Research Facilities in Department of Computer Engineering & IT

ISI-6, RIICO Institutional Area, Sitapura, Jaipur-302022 (Rajastban)
• Phone: +91-9829255102, +91-9414728922 • E-mail: principal.pce@p.o.c.in

Website: www.pce.poornima.org

Ornima College of Engineerin ISI-6, RIICO Institutional Area Stepura, JAIPUR

Research Facilities

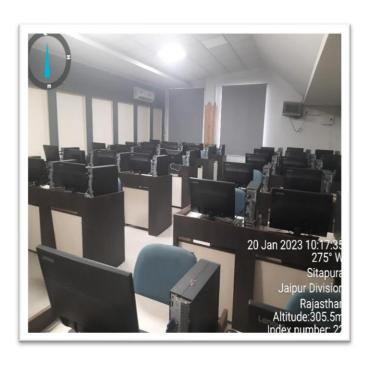
S. No	Name of Equipment/ Software	Laboratory	Quantity	Cost	Bill no. & Date
1	Operating System: Microsoft Windows 10 Pro Processor: Intel(R) Core(TM) i5- 6400 CPU @ 2.70GHz, 2712 Mhz, Core(s), 4 Logical Processor(s) RAM: 8.00 GB HDD: 1 TB	AI & Big Data Lab (COE)	70	34,27,500.00	BDCS/16- 17/1590 BDCS/16- 17/1591 BDCS/16- 17/1592
2	Raspberry Pi Model 3, with case	IOT Lab (COE)	30 Nos	114,000.00	116 31-10-2017
3	Operating System: Microsoft Windows 10 Pro Lenovo Think Station P310, Intel(R) Core(TM) i5-6400 CPU @ 2.70GHz, 2712 Mhz, Core(s), 4 Logical Processor(s) Memory (RAM): 8.00 GB HDD: 1 TB	IOT Lab (COE)	42	1919400.00	BDCS/16- 17/1594 BDCS/16- 17/1595 (2285000 Rs for 50 PCs)
4	GPU Server: Dell Power Edge R 750 Server CLX 4208 2P 8C/16T 2.1G 11M 9.6GT 85W 3647 R1 32GB 2933MHz DDR4 RAM NVIDIA A100 40GB Passive card	Computer Vision Lab (COE)	1	19,48521.00	Voucher No. 58
5	Higher Configuration Desktop with Graphic Card Intel Core i7 10700 F X 2 Cooler Master Cabinet SMPS 600-watt Cooler Motherboard Gigabyte B560M DS3H AC X 2 RAM 16 GB DDR4 2656 8TB HDD Seagate 500 GB SSD Graphic card 8gb 3050 Gaming RTX	Computer Vision Lab (COE)	2	2,12,457.62	BDCS/5573/21- 22
6	FujiFilm-FX-X-100V S-EE Digital Rangefinder Camera	Computer Vision Lab (COE)	1	1,06,245.76	BDCS/5573/21- 22
7	BASLER ACE GIGE Camera	Computer Vision Lab (COE)	1	1,40,000.00	BDCS/5573/21-
8	Operating System: Microsoft Windows 10 Pro	Data Science Lab	24	114250	Mahesh Bun BE, ME

	T	T			Г
	Processor: Intel(R) Core(TM) i5- 6400 CPU @ 2.70GHz, 2712 Mhz, Core(s), 4 Logical Processor(s) RAM: 8.00 GB				
	HDD: 1 TB				
9	Operating System: Microsoft Windows 10 Pro and Ubuntu Processor: Intel(R) Core(TM) i3- CPU @ 3.70GHz, 4 Logical Processor(s) RAM: 4.00 GB HDD: 500 GB	Cyber Security Lab	24	689700.00	BDCS/16- 17/2932
10	Einscan Pro 2X 2020 + Solid Edge Software, Multifunctional 3D Scanner	AI & Big Data Lab (COE)	1	713,900	IN21-22-088 30-03-2022
11	Anaconda (Python distribution)	Artificial Intelligence Lab & Data Science Lab	-	Open Source	NA
12	Weka	Artificial Intelligence Lab & Data Science Lab	-	Open Source	NA
13	VMware	Cyber Security Lab	-	Open Source	NA
14	IBM SPSS software platform	Artificial Intelligence Lab & Data Science Lab	-	Open Source	NA
15	Snort - Network Intrusion Detection & Prevention System	Cyber Security Lab	-	Open Source	NA
16	Wireshark	Cyber Security Lab	-	Open Source	NA





AI & Big Data Lab (COE)





IOT Lab: (COE)

Dr. Mahesh Bundele B.E., M.E., Ph.D.





GPU Server





Higher Configuration Desktop with Graphic Card (Computer Vision Lab.)

Dr. Mahesh Bundele B.E., M.E., Ph.D. Director





Digital Rangefinder Camera & DSLR Cameras:



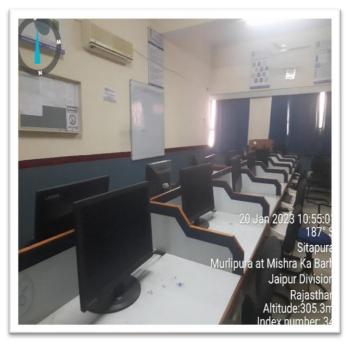


Data Science Lab

Dr. Mahesh Bundele

Department of Computer Engineering & Positive College of Engineering





Cyber Security Lab





3D Scanner AI & Big Data Lab (COE):

Dr. Mahesh Bundele

Department of Computer Engineering & Positive College of Engineering





Center of Excellence in Artificial Intelligence and Big Data

ISI-6, RIICO Institutional Area, Sitapura, Jaipur-302022 (Rajasthan)
• Phone: +91-9829255102, +91-9414728922 • E-mail: principal.pce@poornima.org

• Website: www.pce.poornima.org

Director

Cornima College of Engineering

131-0, FIICO Institutional Area

Stlapura, JAIPUR



OFFICE OF THE DEAN ACADEMIC AFFAIRS RAJASTHAN TECHNICAL UNIVERSITY

AKELGARH, RAWATBHATA ROAD, KOTA-324010 Ph-0744- 2473015, website: www.rtu.ac.in, email: dean.academic@rtu.ac.in

RTU/Acad./F(17)14/2021/3646

Date: 28.06.2021

To Principal/Director Poornima College of Engineering ITS-1, IT Park, EPIP Sitapura Jaipur-302028

Sub: Recognition of Centre of Excellence in Artificial Intelligence and Big Data.

Ref.: 1. University letter no. RTU/F(17)Acad./2020/1414-15, dtd. 30.09.2020.

2. Your proposal dtd. 23.04.2021.

Sir

With reference to University call for proposals for establishment of Centre of Excellence, your application for recognition of Centre of Excellence in the area of **Artificial Intelligence and Big Data** was considered. On the recommendation of Expert Evaluation Team and subsequent approval of 68th Board of Inspection vide agenda no. 66.3, University has recognised the Centre of Excellence in the area of **Artificial Intelligence and Big Data** at your institute.

The modalities of operation for Centre of Excellence shall be communicated in due course of time.

Yours sincerely

(**Prof. D.K. Palwalia**)
Dean, Academic Affairs

Dr. Mahesh Bundele

Director
Cornima College of Engineering
ISI-6, RIICO Institutional Area
Stapura, JAIPUR

Vision: To be the leading research institute in the Area of AI & Big Data in the stateof Rajasthan and upliftment of other institutions and their stakeholders.

Objectives of setting up RTU COE in AI & Big Data:

- 1. To impart knowledge about AI & Big Data to the students and the faculty from the institutions across Rajasthan.
- 2. To make the resources available to advanced learners and researchers for developing solution to any societal, industrial and environmental applications using AI & Big Data.
- 3. To create project-based learning environment in and around the institute across the state of Rajasthan.

Physical Resources Available

1. Artificial Intelligence Lab I:

This lab is established in the year 2017 in a space of 1500 Square Feet having:

Hardware: Lenovo Think Station P310, Microsoft Windows 10 Pro, Intel(R) Core (TM) i5- 6400CPU @ 2.70GHz, 2712 MHz, Core(s), 4 Logical Processor(s) and Memory (RAM) 8.00GB [72 Nos.]

Software: All open-source AI & Big Data tools with an access to virtual processing and software resources.

IBM Tools & Access- Cognos, BI, Bluemix

2. Artificial Intelligence Lab II:

This lab is also established in the year 2017 in a space of 600 Square Feet having:

Hardware: Lenovo Think Station P310, Microsoft Windows 10 Pro, Intel(R) Core (TM) i5-6400CPU @ 2.70GHz, 2712 Mhz, Core(s), 4 Logical Processor(s) and

Centre of Excellence (COE) in AI & Big Data

Dr. Mahesh Bundele B.E. M.E. Ph.D Director Poornima College of Engineer Memory (RAM) 8.00GB. [42 Nos.]

Raspberry Pi Model 3, with case and NOOBS on Micro SD 16 GB Card, Sensors and otheraccessories. [50 Nos]

Software: All open-source AI & Big Data tools with an access to virtual processing and software resources.

IBM Tools & Access- Cognos, BI, Bluemix.

3. Training and Learning Provisions:

- Well-furnished meeting room with TV screen for video conferencing.
- Furnished Training room with Projector, Screen, White Board and furniture.
- Working and learning space furnished with tables, chairs, power plugs and internet connectivity.

Virtual Resources

1. In collaboration with IBM

Artificial Intelligence Lab I and II were established in the year 2017 when Poornima Collegesigned MoU with IBM to train students and faculty in the area of Cloud Computing and IoT.Since 2017 students and faculty members are being trained in following three areas:

- a. Internet of Things (IOT) Lab for Application Development & Deployment using IBMBlueMix;
- b. Cloud Computing Lab for App Development & Deployment for Cloud using IBMBlueMix;
- c. Business Intelligence Lab for Learning Business Intelligence using IBM Cognos BI;
- d. Participant are able to use the IBM software in the lab for their non-commercial research interests;
- e. Participant receive the printed course material
- f. Participant have access to various IBM online forums for additional study material

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineerin

and resources to interact with experts & participate in discussions;

- g. Participants receive certification from IBM at the completion of the course;
- h. IBM Experts provide real world challenges for project experience & also mentor theparticipants through the various phases of these projects.

Application Development and Deployment for Cloud using IBM Bluemix:

Built on Cloud Foundry open-source technology, Bluemix makes application development easier with Platform as a Service (PaaS). Bluemix also provides prebuilt Mobile Backend as a Service (MBaaS) capabilities.

Learning Business Intelligence using IBM Cognos:

BI Module 1: IBM Cognos Insight: Analyze and Share Module 2: IBM Cognos Business Intelligence Advance.

IoT Application Development and Deployment using IBM BlueMix:

All the students of II, III- and IV-year's students of all disciplines are opting for any one optionevery year and are being trained.

2. In Collaboration with Microsoft:

MoU has been signed with Celebal Technologies Jaipur in January 2020 to get access toMicrosoft processing resources and tools.

Celebal Technology Jaipur is in general collaborating with Poornima College of Engineeringfrom 2018 in terms of training and hiring the students.

Microsoft resources available to the students and faculty are;

- Virtual Machines, Azure Tools and Services
- 5TB Blob Storage, Azure Credits for Azure services, AI/ML/DL Tools access
- High End Virtual Machines and Azure Credits with latest Data Science, AI and Deep Learning Tools
- Learning of multiple aspects and languages like: Big Data,
 Chatbots, Enterprise Integration, Python, Databricks, Power BI,
 Power Apps

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineerin
ISI-6, RIICO Institutional Area

Centre of Excellence (COE) in AI & Big Data

- 5TB Blob Storage
- Microsoft Azure Certifications by faculty and students
- App Service Plan
- Application Insight
- SQL Database
- Azure Data Factory
- SQL Server
- Azure Database for MySQL
- Web App Bot
- App Service
- Azure Synapse
- Azure Consumption: 60,000 Units for year 2021

3. SAP: MoU with SAP University Alliance

Poornima College of Engineering has signed MoU with SAP University alliance in January2021 for utilizing SAP online resources to train faculty and students.

Training resources are as under;

- Overview of SAP's vision of the Intelligent Enterprise
- Basic concepts of an ERP solution based on S/4HANA system
- SAP Fiori User Interface to interact with the S/4HANA system
- Case studies provided to understand various business processes.
- Business simulation games for SAP S/4 HANA
- Help improve knowledge of business processes

Dr. Mahesh Bundele B.E., M.E., Ph.D. Director Poornima College of Engineerin ISI-6, FIICO Institutional Area

Centre of Excellence (COE) in AI & Big Data

- Dynamic environment where it accelerates time, simulates interactions with businesspartners, & automates administrative tasks execution to understand how ERP systems are effective at managing business processes.
- Faculty training is in progress and soon we are going start student training on SAP.

Research Facilities

S. No	Name of Equipment/ Software	Laboratory	Quantity	Cost	Bill no. & Date
1	Raspberry Pi Model 3, with case	IOT Lab (COE)	30 Pcs.	114,000.00	116 31-10-2017
2	Operating System: Microsoft Windows 10 Pro Lenovo Think Station P310, Intel(R) Core (TM) i5-6400 CPU @ 2.70GHz, 2712 Mhz, Core(s), 4 Logical Processor(s) Memory (RAM): 8.00 GB HDD: 1 TB	IOT Lab (COE)	42	1919400.00	BDCS/16- 17/1594 BDCS/16- 17/1595 (2285000 Rs for 50 PCs)
3	GPU Server: Dell Power Edge R 750 Server CLX 4208 2P 8C/16T 2.1G 11M 9.6GT 85W 3647 R1 32GB 2933MHz DDR4 RAM NVIDIA A100 40GB Passive card	Computer Vision Lab (COE)	1	19,48521.00	Voucher No. 58
4	Higher Configuration Desktop with Graphic Card Intel Core i7 10700 F X 2 Cooler Master Cabinet SMPS 600-watt Cooler Motherboard Gigabyte	Computer Vision Lab (COE)	2	2,12,457.62	BDCS/5573/21- 22

Dr. Mahesh Bundele B.E., M.E., Ph.D. Director Poornima College of Engineeric

Stapura,

	B560M DS3H AC X 2				
	RAM 16 GB DDR4 2656				
	8TB HDD Seagate 500 GB				
	SSD Graphic card 8gb 3050				
	Gaming RTX				
	FujiFilm-FX-X-100V S-	Computer Vision Lab			BDCS/5573/21-
5	EE Digital Rangefinder	(COE)	1	1,06,245.76	22
	Camera	(COL)			22
	BASLER ACE GIGE	Computer Vision Lab			BDCS/5573/21-
6	Camera	(COE)	1	1,40,000.00	22
	Einscan Pro 2X 2020 +				
7	Solid Edge Software,	AI & Big Data Lab			IN21-22-088
	Multifunctional 3D	(COE)	1	713,900	30-03-2022
	Scanner				

Library Resources

We have subscription to following library resources those are being used by the faculty and students while doing projects and R&D in AI and Big Data.

- IEEE IEL Online full subscription
- DELNET
- ASME for Mechanical Engineering
- J-Gate
- Scopus
- Turnitin Plagiarism check software

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Cornima College of Engineerin

INFRASTRUCTURE PICS



AI Lab 1



AI Lab 2

Centre of Excellence (COE) in AI & Big Data

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Cornima College of Engineering
ISI-6, RIICO Institutional Area
Stapura, JAIPUR



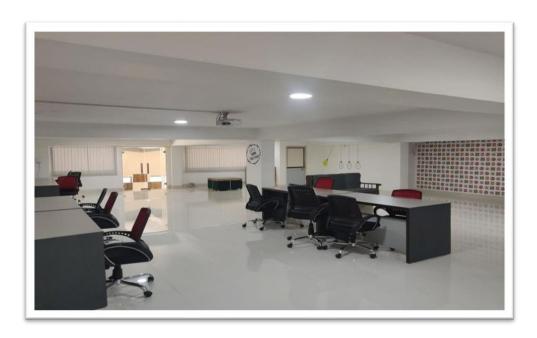
Centre First Floor Entry



Meeting Room

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, FUICO Institutional Area
Stlapura, JAIPUR

Centre of Excellence (COE) in AI & Big Data



Working Space



Reference Section

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Cornima College of Engineering
131-6, Fill CO Institutional Area
Stapura, JAIPUR





Digital Rangefinder Camera & DSLR Cameras:

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Cornima College of Engineering
181-6, RIICO Institutional Area
Stlapura, JAIPUR

Centre of Excellence (COE) in AI & Big Data





3D Scanner AI & Big Data Lab (COE)





Center of Excellence in Advance Wireless Communication

ISI-6, RIICO Institutional Area, Sitapura, Jaipur-302022 (Rajasthan)

• Phone: +91-9829255102, +91-9414728922 • E-mail: principal.pce@poornima.org

• Website: www.pce.poornima.org

Dr. Mahesh Bundele
B.E. M.E. Ph.D.
Director



OFFICE OF THE DEAN ACADEMIC AFFAIRS RAJASTHAN TECHNICAL UNIVERSITY

AKELGARH, RAWATBHATA ROAD, KOTA-324010 Ph-0744- 2473015, website: www.rtu.ac.in, email: dean.academic@rtu.ac.in

RTU/Acad./F(17)14/2023/ 10 34-35

Date: 23.05.2023

Principal/Director Poornima College of Engineering ISI-6, RIICO Institutional Area, Sitapura Jaipur-302022

Sub: Recognition of Centre of Excellence in Advanced Wireless

Communication Lab.

Ref.: Your proposal dtd. 23.03.2022.

With reference to University call for proposals for establishment of Centre of Excellence, your application for recognition of Centre of Excellence in the area of **Advanced Wireless Communication Lab** was considered. On the recommendation of Expert Evaluation Team and subsequent approval of 75th Board of Inspection vide agenda no. 75.3.1, University recognise the Centre of Excellence in the area of **Advanced Wireless Communication Lab** at your institute from session 2022-23.

Further, BOI has not approved the COE proposal for Advanced Manufacturing Lab.

(**Prof. D.K. Palwalia**)
Dean, Academic Affairs

C.C.to: PS to HVC

> (**Diwakar Joshi**) Dy. Registrar, A/A



Vision and Mission of COE:

Vision: To be the leading research institute in the Area of Advanced Wireless Communication in the state of Rajasthan and upliftment of other institutions and their stakeholders.

Mission:

- 1. To offer state of the art education of global standards through innovative methods of teaching and learning with practical orientation aiming to prepare the students for successful careers and to provide required technological services.
- 2. To pursue high quality contemporary research in advance wireless communication technologies and its applications.
- 3. To empower students by imparting quality education in Communication Engineering for better employability and preparing them to be competent in dealing with industrial and societal challenges.
- 4. To expose its students to an advanced technology spectrum in order to prepare them for diverse and competitive career paths.
- 5. To develop innovative & simple instructional materials to drive the concepts into the minds of students.
- 6. To promote research culture by infusing scientific temper in the students and guiding them towards R&D activities.

Objective and Relevance of the COE

- 1. To impart knowledge about Advanced Wireless Communication to the students and the faculty from the institutions across Rajasthan.
- 2. To make the resources available to advanced learners and researchers for developing solution to any societal, industrial and environmental applications using Wireless Communication.
- 3. To create project based learning environment in and around the institute across the state of Rajasthan.



Detail of the National/International Institutes. Industries involved in the Centre of Excellence

International Institute:

- Universiti Teknologi Mara, Malaysia
- > RI Instruments and Innovation Pvt. Ltd., Uttarakhand and RINZTECH, New Zealand

National Institute:

- > IIT Indore
- > IIT Dharwad
- > MNIT, Jaipur
- ➤ Siemens Centre of Excellence, NIT, Kurukshetra
- ➤ Government Engineering College, Dahod

Industries:

- ➤ Elektrolites Pvt. Ltd., Jaipur
- > VVDN Technologies Pvt. Ltd., Manesar
- Research for Resurgence Foundation, India
- > SAP
- > IBM
- Celebal Technologies
- ➤ Latashri 3D Creations, Jaipur
- Latashri 3D Creation (3D Printer), Jaipur

Dr. Mahesh Bundele B.E., M.E., Ph.D. Director Coornima College of Engineerin 181-6, Fulco Institutional Ages



INFRASTRUCTURAL FACILITIES

Major Equipment's accessories exclusive for COE

S. No.	Name of Equipment	Specification	Make	Quantity	Total Cost
	SENSE- nut	 Microcontroller with integrated 802.15.4 transceiver. Variety of sensors: Environment, Meteorological, Air & water quality etc. Modular design having Gateways, Radios & sensors devices. USB to Asynchronous serial data transfer 			
1	USB Gateway Module	interface. • USB protocol handled by the device (No USB specific programming required). • Data Transfer rate 115200 baud • 128 byte receive buffer and 256 byte transmit buffer	SENSE- nut ProLab	1	4,72,000/-
	Radio Module:	 32-bit RISC JN 5168 Microcontroller 1-32MHz clock speed 256KB flash, 32KB RAM, 4KB EEPROM 2.4 GHz IEEE 802.15.4 compliant transceiver 			



	T		
	• 128-bit AES security		
	processor		
	• Time of Flight engine for		
	ranging		
	• Integrated PCB antenna		
	• Rx current 17mA, Tx		
	current 15mA		
	• 2V to 3.6V battery		
	operation		
	• Controllable transmission		
	power (-32 to +2.5 dBm)		
	• Low-power Wi-Fi		
	networking module		
	• Integrated SPI-serial flash		
	for software		
	• Broadcom BCM43362		
	single band 2.4GHz IEEE		
	802.11b/g/n 1x1 Wi-Fi		
	transceiver		
	• Includes support for all		
	Wi-Fi security modes		
THE FIG.	including Open, WEP,		
Wi-Fi Gateway	WPA,WPA2-PSK		
Module:	• Integrated 1MB Flash		
	memory and 128kB		
	SRAM		
	• Operational Temperature		
	Range: -30°C to +85°C		
	• Wi-Fi Power save : 0.77mA		
	• Active receive : 6.9mA @		
	1Mbit/s		
	• Active transmit: 12.5mA		
	@ 1Mbit/s		



	TL Sensor Module	 Temperature Range -25 C to 80 C with12 bit resolution, Light Range 3 to 64k lux with16 bit resolution, Excellent IR/UV rejection 1.5uA shutdown current 			
	HTP Sensor Module	 The humidity sensor provides digital output with a 14-bit resolution (0.04% RH) Pressure sensor outputs the barometric pressure in 24-bit resolution Hardware interrupts in order to update the microcontroller about any critical events 			
	Extender Module	 Connect external sensors and devices. Debug hardware/checking output on DIOs and other ports Access ADC, SPI, UART, I2C, and PWM generators 			
2	Advanced Fiber Optic Communication Trainer - Model - FOL-A-P	 Fiber Optic Transmitter: Two wavelength (660nm and 950nm) Fiber Optic Receiver: 2 types (PIN Photo Diode, Photo Transistor detector) On board functional generator N.A. measurement 	Falcon	2	94,400/-
3	Power Meter	A Power Meter is one of the most useful and simple	RY- PM3008	1	35400/-



	Γ			1	
		instruments to measure			
		electrical power when no			
		deeper analysis of the			
		measured data is required. It			
		measures the voltage (V)			
		and current (A) and derives			
		from these the most			
		important power results.			
		Analyzer need to measure S-			
		parameters, the right mix of			
		speed and performance			
		gives you an edge. Key sight			
		ENA vector network			
		analyzers provide affordable			
		measurement integrity to			
	ENA Vector Analyzer	help you transform a deeper			
		understanding into a better			
		design. The full contents of	Keysight		0.27.000/
4		the kit include:	Technology	1	8,37,800/-
	J	• C6713 DSP Development			
		Board with 512K Flash			
		and 16MB SDRAM			
		• C6713 DSK Code			
		Composer Studio TM IDE			
		including the Fast			
		Simulators and access to			
		Analysis Toolkit on			
		Update Advisor.			
		The Antenna Training			
		System also comes with			
		Motorized Antenna Unit			
		(Model Amitech 2261A) to			
5	Antenna Trainer	automate the recording of	Amitech	1	2,14,200/-
	Kit	the radiation pattern of the	7 1111110011	1	2,11,200/
		antennas. The Motorized			
		Unit consists of a			
		Microcontroller based			
		where the discussion of the second of the se			



		system for Capturing, Displaying and Printing of radiation pattern. The system capture signal at an interval of 1degree rotation using stepper motor and radiation pattern is displayed on PC. The Windows based Software is supplied in CD Rom. The PC Communication is via RS232 port. It used with Amitech.			
6	Radar Trainer Kit	Trainer is useful classroom training equipment provided with different types of accessories for experimentation, and a Windows based software for observation and calculation of different parameters. Onboard Test points are provided, which enable students to observe the signals on an Oscilloscope or a PC.The trainer is capable of measuring the Speed of Object, Frequency of Vibrations and RPM of any fan. Students can also study the properties of different types of materials like Metal, Acrylic, Teflon, Bakelite, etc.	NVIS	1	53,404/-
7	Satellite Trainer Kit	• Simultaneous Communication of three	Scientech	1	80,106/-



	1	1100			I
		different signals at each			
		up-linking frequency			
		• 2414-2468 MHz PLL			
		microwave operation			
		Nvis GPS module			
		MC20GPS is an extension			
		module for Nvis			
		Microcontroller			
		development platforms. The			
		module has been designed			
		for students and practicing			
		engineers to gain invaluable			
		practical experience on the			
		principle and applications of			
		microcontroller & GPS			
		Module. The objective is to			
		have a clear understanding			40.050/
		of how GPS module is			
		interfaced and controlled			
		with microcontroller. It has			
8	GPS Trainer Kit	various terminals for	Scientech	1	40,258/-
		connection to external real			
		world applications. Nvis			
		GPS module will provide a			
		basic understanding of the			
		GPS fundamentals,			
		Satellites & Design aspects			
		of GPS receiver by actually			
		connecting to the Satellite			
		by GPS antenna.MC20GPS,			
		GPS module for Embedded			
		Platforms is an ideal			
		platform to enhance			
		education, training, skills &			
		young minds.			



9	CDMA DSSS Trainer Kit	The Wireless mobile communication systems provide access to the capabilities of the global network at any time, irrespective of the location or mobility of the user. The Direct Sequence Spread Spectrum (DS-SS) technique, incorporated into CDMA can accommodate large number of users in one radio channel depending on the voice activity level.	Scientech	1	1,44,602/-
10	Microwave Test Bench	 Gunn Power Supply: Gunn Oscillator: Isolator: PIN modulator: Variable attenuator: Detector Mount: SWR meter: 	Scientech / NVIS	8	5,49,326/-
11	Digital Storage Oscilloscope	30Mhz	Keysight	8	1,86,900/-
12	Spectrum Analyzer	9Khz-6.2Ghz	Scientech/ CADDO	2	3,39,675/-
13	FPGA Trainer Kit	VLSI Trainer	Scientech / NVIS	10	1,49,347/-



14	Digital Signal Processing Development	 Up to 600 MHz high performance black fin processor Two 16 bit MAC Two 40 bit ALU Four 8 bit video ALU 40 bit shifter Advanced debug, trace and performance monitoring Wide range of operating voltages Qualified for automotive application Programmable on chip voltage regulator Up to 148 k byte of on chip memory On chip PLL capable of 0.5 to 64 frequency multiplication core timer 	Scientech	10	3,38,000/-
15	Advance MIC Trainer kit	 Frequency Range: 2.2 - 3GHz continuously variable Modulating Frequency: 100Hz to 5kHz AM square wave, FM triangular wave Output Level Variation: 10 - 20 dB Impedance: 50V Min RF level: 5mW 	Scientech	2	2,53,151/-
16	RF/ Microwave Circuit Board	Cover the 5 parameter measurement up to 5 band (ENA)	Scientech	1	2,36,000/-



17	Logic Analyzer Kit	32-channel logic analyzer with 256K memory Scienter		1	58,744/-
18	Fiber Optic Trainer Kit	Fiber-Optic Trainer, Single Channel and Dual Channel	Scientech	9	1,71,179/-
				Total Cost	42,54,492/-

Major Software and IT structure for COE

S. No.	Name of Equipment	Research Application	Total Cost
1	CST MW Software 2020 (20 Users)	CST Studio Suite® is a high-performance 3D EM analysis software package for designing, analyzing and optimizing electromagnetic (EM) components and systems. Electromagnetic field solvers for applications across the EM spectrum are contained within a single user interface in CST Studio Suite.	1,53,400/-
2	Optical Communication Software (2 Users)	Opti-System Ver. 16	6,90,300/-
3.	SENSE- nut interface Software	Wireless Sensors Network	Mention in Above table

Virtual Resources

In collaboration with Celebal Technologies

- The industry-connect which will enable students to increase their literacy technical skill & supervisory skill. Enhancing the personality development aspect of an individual through soft skills, Learning modules of various latest technologies, through the technical curriculum specially designed for Computer, Electronics & Communication Engineering, students by subject matter expert (SMEs) of Celebal Technologies, through Workshops, Guest Lectures, SDP'S etc. Access to learning content from Microsoft & Pluralsight.
- ➤ Consultancy support from Celebal Technology on how the quality of infrastructure for



different technical labs can be increased and brought to the level of industry acceptance.

- Onsite resources for carrying out FDP training activities on Wireless Communication by Microsoft trainers
- ➤ Ecosystem level support in Hackathons/ events NKN and/ or 50mbps / higher internet connectivity

In collaboration with Elektrolites Pvt. Ltd.

- ➤ Seek mutual advice and support in planning and executing Programs promoting Excellence in respective areas of research and industrial solutions.
- ➤ Encourage students and faculties of PCE and Scientific staff of Eletrolites pvt. Ltd to visit the either institute for short duration for getting research inputs and guidance upon recommendation from the research guides and directors from Elekrolites pvt ltd.
- Encourage joint research activities and project for students.
- ➤ Industry and institution interaction will give an insight into the latest development of the industries.
- The industrial Training and exposure provided to the students will build confidence and prepare the students to have smooth transition from academic to working career.

In collaboration with VVDN Technologies

- ➤ Giving a chance to the faculty (Trainers) to have an interaction with SMEs of VVDN Technologies to enhance their employability by learning latest technologies and giving them actual industry flavour of today.
- > VVDN Technology would help the best students from different Branches that have been enrolled in their learning modules with the recruitment aspect on merit basis.
- ➤ The subject matter experts can be made available to train the faculty of the college on certain new industry practices.
- ➤ Industrial visit would be organized for the students of Poornima College of Engineering.
- Aiming to bridge the academia-industry gap "VVDN Technologies". It would help a college come up with a Centre of Excellence on varied topics.

Library Resources

We have subscription to following library resources those are being used by the faculty and students while doing projects and R&D in Advance Wireless Communication

➤ IEEE IEL Online full subscription



- > DELNET
- ➤ J-Gate
- > SCOPUS
- > Turnitin Plagiarism check software

Glimpses of Infrastructure of Centre of Excellence



Microwave Test Bench



Power Meter



ENA Vector Analyser







Radar Trainer Kit



Satellite Communication Trainer Kit



Microwave Patch Antenna



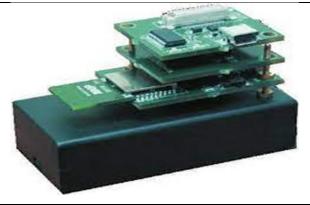




Microwave Patch Antenna Kit Setup



Advanced Optical fiber Trainer Kit



SensNut Module



SensNut Module





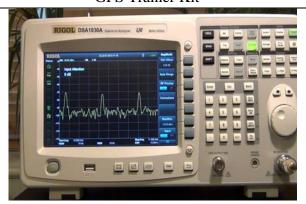




Antenna Trainer Kit

GPS Trainer Kit





Digital Storage Oscilloscope

Rigol Spectrum Analyzer









Glimps of of Centre of Excellence





Center of Excellence in Advanced Manufacturing

ISI-6, RIICO Institutional Area, Sitapura, Jaipur-302022 (Rajasthan)

• Phone: +91-9829255102, +91-9414728922 • E-mail: principal.pce@poornima.org

• Website: www.pce.poornima.org

Dr. Mahesh Bundele



Vision and Mission of proposed COE:

Vision: To become a forward-thinking and cutting-edge research center dedicated to promoting research in the areas of advanced manufacturing in order to provide better trainings and research solutions to industries and researchers especially in the State of Rajasthan.

Mission: To establish cutting-edge research facilities in advanced manufacturing processes and three dimensional printing in order to give practical solutions to meet technological advances.

Objective and Relevance of the proposed COE

- 1. To foster ideas, research, and end user product development for both researchers and industries.
- 2. To build cutting-edge research facilities in the areas of advanced manufacturing in order to resolve industries problems.
- 3. To encourage international collaboration between Local NGOs, industries, academia, and government bodies.
- 4. To ensure that Graduate, Postgraduate, and local artisans can participate in research and internship programs, as well as training and entrepreneurship.
- 5. To encourage women and physical disabled persons to work as a researchers and entrepreneurs in the field of advanced manufacturing and three dimensional printing.

Centre of Excellence Functions

- 1. Student projects with beyond syllabus concept project every semester
- 2. Faculty members pursuing research projects, sponsored research and other works in advance manufacturing utilizing existing resources.
- 3. Conducting Workshops, Seminars, FDPs, Trainings for the Students and Faculty members.
- 4. Collaborative research work with emerging industries.
- 5. To provide research solutions to the research scholars as well industries.
- 6. To conduct Skill based training programs for students and industry technical persons.



- 7. To provide Summer Internship for in/out side Students and research scholars
- 8. To provide research facility to the faculties in summer/winter vacations.

Technical Novelty and Utility

This centre will allow the students, faculty members and researchers to work in advanced manufacturing laboratory and to work with latest cutting edge and to enhance their project/research development.

- Synthesize of advanced polymers based composites.
- Machining of difficult to cut materials using laser cutter.
- Design and fabrication of parts for defence, biomedical, electronic and jewellery industries using 3D printer.
- Characterization and surface quality measurement of manufactured miniaturize parts.
- Joining of dissimilar metals.
- Development of in-house hybrid machines.

Detail of the National/International Institutes. Industries involved in the Centre of Excellence

International Institute:

Centre for Advanced Manufacturing at Adama Science & Technology University Ethiopia

National Institute:

- > MNIT, Jaipur
- ➤ CIPET Jaipur
- > MSME Jaipur
- ➤ NIT Kurukshetra

Industries:

- > Jaipur Foot, Jaipur
- > Tarun International Ltd. Jaipur

Dr. Mahesh Bundele B.E. M.E. Ph.D Director Poornima College of Engineering ISI-6, RIICO Institutional Area



- ➤ BOSCH, Jaipur
- > HUMBOT Pvt. LTD. Jaipur
- > TechnoHub, Jaipur
- Latashri 3D Creation (3D Printer), Jaipur

INFRASTRUCTURAL FACILITIES

Major Equipment exclusive for COE

Name	Quantity	Specific	ations
3D Printer	2	Make	L3D Creation
Electronic Balance Machine	1	Make	Wesner
Digital Microscope	1	Make	ISM- Pro
			MACPOWER
		Make	Industries
			Rajkot (Gujrat)
		Model No.	
	3	Type	Engine lathe
		Bed Length	3.5 Feet
		Power Supply	AC 3-Phase /415 V/
Lathe			50Hz/1.9 AMP
		Power	1.0 Horse Power
		Tower	(H.P.)
		Speed	1440 rpm
		Distance between live	24 inch
		center and dead center	2 i men
		Diameter of chuck	8 inch
		Diameter of job, which	6 inch
		can be held in the chuck	



		Height of the center above the top of the bed	6 inch	
		Range of spindle speed	150-780 RPM	
			MACPOWER	
		Make Industries Rajkot (Gu Model No. Type Engine Lat Bed Length 4 Feet AC 3-Phas 50Hz/3.5 A	Industries	
			Rajkot (Gujrat)	
		Model No.		
		Type	Engine Lathe	
		Bed Length	4 Feet	
		Power Supply	1.5 Horse Power (H. P.)	
		Power Supply	50Hz/3.5 AMP	
		Power 1	1.5 Horse Power (H.	
Lathe	1		P.)	
		Speed	1440 rpm	
		Distance between live	30 inch	
		center and dead center	30 men	
		Diameter of chuck	8 inch	
		Diameter of job, which	6 inch	
		can be held in the chuck		
		Height of the center	6 inch	
		above the top of the bed		
		Range of spindle speeds	150-780 RPM	
Lathe			Sadguru (SELECT)	
		Make	Industries Rajkot	
	1		(Gujrat)	
			Type	Engine Lathe
		Power Supply	AC 3-Phase /415 V/	



			50Hz/2.2 AMP
		Motor	Three (03) phase
		Motor Power	1 Horse Power
			(H. P.)
		Speed	1440 RPM
		Distance between live center and dead center	42 inch
		Diameter of chuck	6 inch
		Diameter of job, which can be held in the chuck	4 inch
		Height of the center above the top of the bed	7 inch
		Range of spindle speeds	150- 780 RPM
		Range of spindle speeds Make	MACPOWER
			Industries
Lathe			Rajkot (Gujrat)
		Model No	
		Type	Gear Lathe
		Bed Length	4 Feet
	1	Power Supply	AC 3-Phase /415 V/
		Tower Suppry	50Hz/3.5 AMP
		Power	2.0 Horse Power (H.
			P.)
		Speed	1440 rpm
		Distance between live center and dead center	24 inch



		Diameter of chuck	8 inch	
		Diameter of job, which can be held in the chuck	6 inch	
		Height of the center above the top of the bed	6 inch	
		Range of spindle speeds	80 – 900 RPM	
		Make	HERBERT	
		Model No.	2D	
Capstan Lathe (CLATHE)	1	Collet Capacity	20 mm	
Capstan Laine (CL/TTIL)	1	Max. distance between spindle nose to turret face	11 inch	
		Make	ANOOP Rajkot (Gujrat)	
		Model No.	A-1	
		Power Supply	AC 3-Phase /415 V/ 50Hz	
		Speed	6 inch 80 – 900 RPM HERBERT 2D 20 mm 11 inch ANOOP Rajkot (Gujrat) A-1 AC 3-Phase /415 V/ 50Hz 1.5 Horse Power (H. P.) 89 inch X 9 inch X 2 nch 18 inch	
Sharper	1	Motor Power	1.5 Horse Power (H. P.)	
		Length, breadth and	39 inch X 9 inch X 2	
		depth of the bed.	inch	
		Maximum axial travel of the Ram	18 inch	
		Maximum length of the stroke	18 inch	



		Vertical travel of tool post slide	4 inch
		Make	Gajjar Machine Tool (Gujrat)
		Model No.	GUA-1,CODE NO 532
		Power Supply	AC 3-Phase /415 V/ 50Hz
		Speed	2700 rpm
		Working Surface	1050 x 250 mm
Milling	1	Number of T-Slots	3
Willing	1	Width of T-Slots	15 mm
		Pitch of T-Slots	62 mm
		Number of Spindle Speed	6
		Range of spindle speed	50, 85, 110, 240, 350,525 RPM
		Floor Space	600 mm x 925 mm
		Height	1500 mm
		Coolant Tank Capacity	20 Litre
Power Hack Saw		Make	MMT
	1	Power Supply	AC 3-Phase /415 V/ 50Hz/1.9 AMP
		Motor Power	1H.P.
		Speed	1440 rpm



Power Hack Saw		Max. Size of materials	1
		that can be cut	170 mm.
		Stroke length	6 inch
		No. of speed strokes	1
		Make	HEEREX
		Power Supply	AC 3-Phase / 50Hz
		Current	35 to 300 AMP
		Voltage	380-440 V
Arc welding (AW)	1	Welding Current	20-400 AMP
Arc weiding (AW)	1	Welding voltage	65 - 75 V DC
		Welding voltage	(Open circuit voltage)
		Maximum Rated	17 KVA
		Dimension (mm)	550X280X545mm
		Weight	33 Kgs
			Vijay Electricals
		Model	28913
Spot Welding	1	Frequency	50 - 60 Hz
		Input Power	25 kVA
		Electrodes Length	200 mm
		Make	ELECTRA KOKO
TIG Welding (TW)	1		TAWA
		Current	200AMP.
		TIG Welding Current	4 - 400 Amps
Submerge Arc Welding		Make	Electro Koko Tawa
	1	Power Supply	AC 3-Phase / 415 V/
			50Hz



		Welding Current	150 to 1200 Amps	
		Open Circuit Voltage	72 Volts (DC)	
		Welding Voltage	20 to 46 Volts DC	
		Make	MUNISH	
		Motor Power	1HP	
Sensitive Drilling	1	Speed	1440rpm	
		Speed 1440rpm AC 3-Phase / 6AMP/220 V/50H Make NATIONAL ENGINEERING Model No. AC 3-Phase / 415		
		Motor Power Speed Power Supply Make Model No. Power Supply Motor Power Speed Make Power Supply Make Power Supply Motor Power Speed Make Power Supply Wheel Diameter	6AMP/220 V/50Hz	
		Make	NATIONAL	
		Wake	ENGINEERING	
		Model No.		
Radial Drilling	1	Power Supply	AC 3-Phase / 415	
Radiai Diffilling	1	Fower Suppry	V/1.9 AMP/50Hz	
		Motor Power	1 Horse Power	
		Motor Fower	(H. P.)	
		Speed	1440 rpm	
		Make	PERFECT	
		Power Supply	AC 3-Phase / 440	
		1 ower suppry	1440rpm AC 3-Phase / 6AMP/220 V/50Hz NATIONAL ENGINEERING AC 3-Phase / 415 V/1.9 AMP/50Hz 1 Horse Power (H. P.) 1440 rpm PERFECT AC 3-Phase / 440 V/0.8 AMP/50Hz 200 mm 0.5 Horse Power (H. P.) 2880 rpm	
Bench Gridding (BG)	1	Wheel Diameter	200 mm	
		Motor Power	72 Volts (DC) 20 to 46 Volts DC MUNISH 1HP 1440rpm AC 3-Phase / 6AMP/220 V/50Hz NATIONAL ENGINEERING AC 3-Phase / 415 V/1.9 AMP/50Hz 1 Horse Power (H. P.) 1440 rpm PERFECT AC 3-Phase / 440 V/0.8 AMP/50Hz 200 mm 0.5 Horse Power (H. P.) 2880 rpm	
		Motor Fower	P.)	
		Speed	2880 rpm	
ELECTRIC FURNANCE HORIZONTAL (EFH)	1	Working Temperature up to 950°		



Electric Furnace Vertical (EFV)	1	Working Temperature up to 950°				
Donid Majotyma Taston		Make	Versatile Equipment's Pvt. Ltd.			
Rapid Moisture Tester (RMT)	1	Model No.	V/M 060211			
(KIVII)		The instrument specifies	Versatile Equipment's Pvt. Ltd. V/M 060211 Disture on wet/weight A to dry weight basis. Versatile Equipment's Pvt. Ltd. V/R 060302 Somm x Height Somm Versatile Equipment's Pvt. Ltd. VGH 060302 Versatile Equipment's Pvt. Ltd. VCW 060206 Versatile Equipment's Pvt. Ltd. VCW 060303			
		basis and easily convertible to dry weight basis.				
		Make	Versatile Equipment's			
		Wake	Versatile Equipment's Pvt. Ltd. V/R 060302 Sand Rammer can sed to prepare a dard sand specimen seter Versatile Equipment's Pvt. Ltd. V/R 060302 50mm x Height 50mm			
		Model No.	Versatile Equipment's Pvt. Ltd. V/M 060211 noisture on wet/weight le to dry weight basis. Versatile Equipment's Pvt. Ltd. V/R 060302 50mm x Height			
Sand Rammer	1	The Sand Rammer can				
		be used to prepare a	50mm x Height			
		standard sand specimen	Versatile Equipment's Pvt. Ltd. V/M 060211 noisture on wet/weight e to dry weight basis. Versatile Equipment's Pvt. Ltd. V/R 060302 50mm x Height 50mm Versatile Equipment's Pvt. Ltd. VGH 060302 Versatile Equipment's Pvt. Ltd. VCW 060206 Versatile Equipment's Pvt. Ltd. VCW 060303 Engineering Models			
		diameter				
		Make	Versatile Equipment's			
Sieve Shaker	1	Make Versatile Equipm Pvt. Ltd.				
		Model No.	VGH 060302			
		Make	Versatile Equipment's			
Clay Washer	1	Wide	Pvt. Ltd.			
		Model No.	VCW 060206			
Permeability Meter (PM)	1	Make	Versatile Equipment's			
			Versatile Equipment's Pvt. Ltd. V/M 060211 Disture on wet/weight to dry weight basis. Versatile Equipment's Pvt. Ltd. V/R 060302 Gomm x Height Gomm Versatile Equipment's Pvt. Ltd. VGH 060302 Versatile Equipment's Pvt. Ltd. VCW 060206 Versatile Equipment's Pvt. Ltd. VCW 060303 Engineering Models			
		Model No.	V/P 060303			
Universal Testing Machine	1	Make	Engineering Models			
for Foundry Shop (UTMF)		IVIAKE	and Equipment's			



		 	Adi Artech O/P 3.13,
		Model No.	500Kg
Core and Mould Hardness	1	Make	Engineering Models
Tester (C&M HT)	1	Make	and Equipment's
PROFILE PROJECTOR	1	Make	METZER-M
(PP)	1	Iviane	WILTZEK W
MONOCHROMATIC AND	1	Make	PRISMS INDIA
OPTICAL FLATE (M&OF)	1	Iviane	TRIBING INDIA
COMBINATION SET (300		Make	MITUTOYO
MM) (CS)		Model No.	180-907
FILLER GAUGE (FG)		Make	MITUTOYO
TILLER GAUGE (TO)		Model No.	184-304
MICROMETER OUTSIDE	1	Make	MITUTOYO
(0.25mm) (M0-1)	1	Model No.	103-101
MICROMETER OUTSIDE	1	Make	MITUTOYO
RANGE (25-50) (M0-2)	1	Model No.	103-138
SMALL BORE GAUGE			
WITH DIAL RANGE (8-10	1	Make	CHINA
MM) (SBG-1)			
SMALL BORE GAUGE			
WITH DIAL (10-18 MM)		Make	CHINA
(SBG-2)			
SMALL BORE GAUGE			
WITH DIAL (18-36) (SBG-	1	Make	CHINA
3)			
TELESCOPIC GAUGE	1	Make	INSIZE
(TG)			



DIAL GAUGE (DG)	1	Make	ASAHI
MAGNETIC STAND (MS)	1	Make	MITUTOYO
		Make	WORK ZONE
THERMOMETER	1	Model No.	MT-14A
		Range	50 -1500 _o C
		Make	MITUTOYO
DIAL VERNIER CALIPER		Model No.	505-671
RANGE-150 MM (VC-1)	1	Size	150 mm
KANGE-130 MM (VC-1)		Accuracy/ Least Count	0.02 mm
		Display Type	Dial
		Make	MITUTOYO
DIGITAL VERNIER	1	Model No.	500-193
CALIPER RANGE-300		Size	300
MM (VC-2)		Accuracy/ Least Count	0.02 mm
		Display Type	Digital
ORDINARY VERNIER		Make	MITUTOYO
CALIPER RANGE-150	1	Size	150 mm
MM (VC-3)	1	Accuracy/ Least Count	0.02 mm
		Display Type	Analog
ORDINARY VERNIER			
CALIPER RANGE-300	1	Make	MITUTOYO
MM (VC-4)			
VERNIER HEIGHT		Make	MITUTOYO
GAUGE	1	Model No.	514-103
(0-300 MM)	1	Size	300 mm
(VHG-1)		Accuracy/ Least Count	0.02 mm



		Display Type	ANALOG	
		Make	MITUTOYO	
DEPTH GAUGE		Model No.	129-111	
MICROMETER (DGM)	1	Base size	16 X 64 mm	
WICKOWLILK (DOM)		Range	10-100 mm	
		Rod size	4 mm	
UNIVERSAL BEVEL		Make	CHINA	
PROTECTOR (UBP)	1	Model No.		
TROTLETOR (CBI)		Blade Length	150 X 300 mm	
PLANE SNAP GAUGE	1	Make	Indian	
(PSG)	1	With	Indian	
		Make	OMEGA	
SINE BAR (SB)	1	Model No.	604	
	_	Size	200 mm	
		Model No.		
INSIDE MICROMETER		Make	MITUTOYO	
(IM)		Model No.	141-205	
		Size	20 mm	
GEAR TOOTH VERNIER	1	Make	ALEN	
WIRE GAUGE AND		Make	KRISTEEL	
SHEET GAUGE	1			
(W&S G)		Model No.	1505	
ANGLE PLATE (AP)	1	Make	INDIAN	
OXYGEN CYLINDER	1	Make	INDIAN	
(OC)				



ACETYLENE CYLINDER (AC)	1	Make	INDIAN
DRILL TOOL DYNOMOMETER (DTD)	1	Make	INDIAN
MILLING TOOL DYNOMOMETER (MTD)	1	Make	INDIAN











Images of Digital Microscope, 3D Printer, Balance machine and surface roughness tester



IT infrastructure for COE

S. No.	PC	Modal	PC Serial No.	Processor	RAM	Hard	MAC
5.110.	Brand	No.	i e seriai No.	Trocessor		Disk	WIAC
				<u>i3-4170</u>			F4-4D-
1	Lenovo	Lenovo	PC0B3BCC	cpu@3.70 GHz	4GB	500GB	30-52-
				<u> </u>			9E-86
				<u>i3-4170</u>			F4-4D-
2	Lenovo	Lenovo	PC0C1ZQ9	cpu@3.70 GHz	4GB	500GB	30-57-
				<u></u>			0A-59
				<u>i3-4170</u>			F4-4D-
3	Lenovo	Lenovo	PC0B3BFW	<u>cpu@3.70 GHz</u>	4GB	500GB	30-52-
				<u>space, a cris</u>			9E-D5
				<u>i3-4170</u>			F4-4D-
4	Lenovo	Lenovo	PC0B3BB5	<u>cpu@3.70 GHz</u>	4GB	500GB	30-52-
				<u>-p</u>			A0-3E
				<u>i3-4170</u>			F4-4D-
5	Lenovo	Lenovo	PC0B3BBC	cpu@3.70 GHz	4GB	500GB	30-52-
							9B-03
				<u>i3-4170</u>			F4-4D-
6	Lenovo	Lenovo	PC0B3AFD	cpu@3.70 GHz	4GB	500GB	30-51-
				<u></u>			B6-64
				<u>i3-4170</u>			B8-AE-
7	Lenovo	Lenovo	PC07DHWV	cpu@3.70 GHz	4GB	500GB	ED-D8-
							E2-F6
				<u>i3-4170</u>			F4-4D-
8	Lenovo	Lenovo	PC0B3BH9	cpu@3.70 GHz	4GB	500GB	30-52-
				-			9E-D0
				<u>i3-4170</u>			F4-4D-
9	Lenovo	Lenovo	PC0B3B6J	cpu@3.70 GHz	4GB	500GB	30-52-
							9B-01
				<u>i3-4170</u>			F4-4D-
10	Lenovo	Lenovo	PC0BUHXZ	cpu@3.70 GHz	4GB	500GB	30-55-
							5D-B4



11	Lenovo	Lenovo	PC07DHZL	<u>i3-4170</u> <u>cpu@3.70 GHz</u>	4GB	500GB	B8-AE- ED-D4- 04-A6
12	Lenovo	Lenovo	PC0B3BEQ	<u>i3-4170</u> <u>cpu@3.70 GHz</u>	4GB	500GB	F4-4D- 30-52- 9B-43
13	Lenovo	Lenovo	PG00QMZF	<u>i3-4170</u> <u>cpu@3.70 GHz</u>	4GB	500GB	F4-4D- 30-59- 6D-99
14	Lenovo	Lenovo	PG00QN2H	<u>i3-4170</u> <u>cpu@3.70 GHz</u>	4GB	500GB	00-01- 6C-D6- 09-1B
15	Lenovo	Lenovo	PC0BUHXT	i3-4170 cpu@3.70 GHz	4GB	500GB	F4-4D- 30-55- 5D-A7
16	Lenovo	Lenovo	PG00QMZ0	i3-4170 cpu@3.70 GHz	4GB	500GB	00-01- 6C-D6- 0F-5F
17	Lenovo	Lenovo	PC0BUHXW	<u>i3-4170</u> <u>cpu@3.70 GHz</u>	4GB	500GB	F4-4D- 30-55- 5A-FB
18	Lenovo	Lenovo	PG00QNKK	<u>i3-4170</u> <u>cpu@3.70 GHz</u>	4GB	500GB	00-01- 6C-D4- FC-3D
19	Lenovo	Lenovo	PC07DJ1Y	<u>i3-4170</u> <u>cpu@3.70 GHz</u>	4GB	500GB	B8-AE- ED-D4- 04-C7
20	Lenovo	Lenovo	PG00QNKC	<u>i3-4170</u> <u>cpu@3.70 GHz</u>	4GB	500GB	00-01- 6C-D4- FC-25
21	Lenovo	Lenovo	PG00QNJY	<u>i3-4170</u> <u>cpu@3.70 GHz</u>	4GB	500GB	00-01- 6C-D4- FC-2B



22	Lenovo	Lenovo	PC0B3BFV	<u>i3-4170</u> <u>cpu@3.70 GHz</u>	4GB	500GB	F4-4D- 30-52- 9D-3F
23	Lenovo	Lenovo	PG00QMZC	<u>i3-4170</u> <u>cpu@3.70 GHz</u>	4GB	500GB	00-01- 6C-D6- 0A-0C
24	Dell	Dell	OPTIPLEX360	Intel care 2Duecpu E7400@2.80GHz	2 GB		00-23- AE-86- EE-15

Items	Functions	Cost
PROJECTOR, PANASONIC	Presentation, Training	26250
PRINTER, 2900 CANNON	Documentation	9145
SCANNER, CANNON	Documentation	2375

List of Consumables

S. No.	Item	Quantity	Total Cost
1	MS Steel rod	100	6558
2	Copper Rod	10	9500
3	Brass Rod	10	6200
4	Aluminum Rod	10	4500
5	Cast Nylon Rod	10	2750
6	Aluminum Sheet	5	2500
7	Emery Paper	50	1500
8	Single point cutting tool	5	1250



9	Milling Cutter	5	1250
10	Consumable and non-consumable electrodes	5 packets	2000
11	3D printer material (PLA)	5 spool	6000
12	Drilling bit	10	1000



Glimpses of Infrastructure of Centre of Excellence



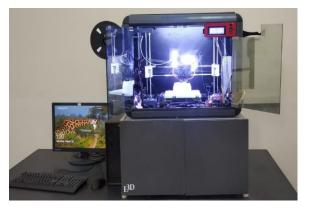
Production Lab



Aero-modeling Lab



Lecture Theatre



3D Printer



Computer Lab



TIG Welding Setup





Center of Excellence in Geoinformatics

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• Website: www.pce.poornima.org

r. Mahesh Bundele



ABOUT THE CoE

Poornima College of Engineering started a Center of Excellence (CoE) for GEOINFORMATICS that focuses on research, development, education, and practical applications related to geoinformatics. Geoinformatics is an interdisciplinary field that combines geographic information systems (GIS), remote sensing, geospatial analysis, and other technologies to acquire, manage, analyze, and visualize geographic and spatial data.

An effort called the Center of Excellence for Geoinformatics aims to advance research, education, and support services for geospatial applications. Its core initiatives are focused on employing a collaborative and community-driven approach to raise knowledge, understanding, appreciation, and implementation of geospatial solutions.

The research, outreach, and consulting efforts of the Center are concentrated on many elements of Geoinformation technology and systems. The center's research initiatives take the shape of funded projects by domestic and international funding organizations and community development initiatives. The center for the promotion of multidisciplinary research for sustainable development is affiliated with faculty members from all of the institute's departments, including Electronics & Telecommunication Engineering, Computer Engineering, and Information Technology.

Vision and Mission of proposed COE:

Vision: To be a Global Centre of Excellence for Geoinformatics in Academic, Research, Government support and Industrial Training.

Mission: To be a leading Centre of Excellence in Geoinformatics Research of international repute for the investigation of multidisciplinary areas.

To enhance the knowledge based on research, education and information transfer by using the advanced approach.

To organize trainings/workshop/social activity for capacity building in Geoinformatics.

To provide academic support to undergraduate/post-graduate/ PhD program in the discipline of Geoinformatics.



Objective and Relevance of the proposed COE

- **1.** ICT and geospatial knowledge co-creation and sharing based on Geoinformatics principles.
- **2.** To enhance quality of life and create proactive local communities, integrate and employ geospatial solutions and open-source principles.
- **3.** Offer deployment and consulting services for geospatial solutions based on BIG data, AI and Machine Learning.
- **4.** Strengthening capacity via awareness campaigns, instruction, workshops, teacher training sessions, consultations, displays, and outreach initiatives.
- **5.** Use cutting-edge geospatial software to meet various needs for monitoring and evaluation (M&E).

Centre of Excellence Aims

Research: Conduct cutting-edge research in the field of geoinformatics, exploring new methodologies, technologies, and applications to address various spatial challenges and problems. Education: Offer training programs, workshops, and courses to educate professionals, students, and the public about geoinformatics principles, tools, and techniques.

Application Development: Develop practical applications, software tools, and solutions that leverage geoinformatics to address real-world issues in sectors like urban planning, environmental monitoring, agriculture, disaster management, and more.

Data Management: Focus on the collection, management, and analysis of geospatial data, including satellite imagery, aerial photographs, geographic databases, and other spatial datasets. Collaboration: Foster collaborations with academia, government agencies, industries, and other stakeholders to advance geoinformatics research and applications.

Policy and Decision Support: Provide expertise to policymakers and decision-makers by utilizing geoinformatics data and analyses to make informed choices related to land use, resource



management, infrastructure planning, and more.

Innovation: Drive innovation by pushing the boundaries of geoinformatics technology and its integration with emerging fields such as artificial intelligence, machine learning, and big data analytics.

This center will play a vital role in advancing the understanding and application of geoinformatics in various domains. It will contribute to scientific advancements, support sustainable development, and enhance decision-making processes by providing valuable geospatial insights.

FUTURE COMMITMENT

- > Patent
- ➤ Publications in reputed journals (SCI/WOS & SCOPUS Indexed)
- Collaborative research work with International and National Organization
- External Funded Projects
- Presenting research outcome in National and International conferences
- Conducting workshop/seminar/ training program. Capacity Building

INFRASTRUCTURAL FACILITIES

IT infrastructure for COE

S. No	PC Brand	Modal No.	PC Serial	Processor	RA M	Hard Disk	MAC
1	Lenov o	Lenovo Think Centre E63z	P900JQP9	Intel ® Core TM i3-4005U CPU @ 1.70GHz	4GB	500 GB	00-25-AB- 7D-70-20



2	Lenov o	Lenovo Think Centre E63z	P900JQPB	Intel ® Core TM i3- 4005U CPU @ 1.70GHz	4GB	500 GB	00-25-AB- 7D-6D-DB
3	Lenov o	Lenovo Think Centre E63z	P900JQSX	Intel ® Core TM i3- 4005U CPU @ 1.70GHz	4GB	500 GB	00-25-AB- 7D-6F-8A
4	Lenov o	Lenovo Think Centre E63z	P900JQPY	Intel ® Core TM i3- 4005U CPU @ 1.70GHz	4GB	500 GB	00-25-AB- 7D-7A-14
5	Lenov o	Lenovo Think Centre E63z	P900JQQ W	Intel ® Core TM i3- 4005U CPU @ 1.70GHz	4GB	500 GB	00-25-AB- 7D-75-16
6	Lenov o	Lenovo Think Centre E63z	P900JQSW	Intel ® Core TM i3- 4005U CPU @ 1.70GHz	4GB	500 GB	00-25-AB- 7D-6F-B4
7	Lenov o	Lenovo Think Centre E63z	P900JQQ8	Intel ® Core TM i3- 4005U CPU @ 1.70GHz	4GB	500 GB	00-25-AB- 7D-7A-4F
8	Lenov	Lenovo Think Centre E63z	P900JQQ1	Intel ® Core TM i3- 4005U CPU @ 1.70GHz	4GB	500 GB	00-25-AB- 7D-78-06
9	Lenov	Lenovo Think Centre E63z	P900JQNY	Intel ® Core TM i3- 4005U CPU @ 1.70GHz	4GB	500 GB	00-25-AB- 7D-6E-5E
10	Lenov	Lenovo Think Centre E63z	P900JQNX	Intel ® Core TM i3- 4005U CPU @ 1.70GHz	4GB	500 GB	00-25-AB- 7D-70-F4
11	Lenov	Lenovo Think Centre E63z	P900JQSN	Intel ® Core TM i3- 4005U CPU @ 1.70GHz	4GB	500 GB	00-25-AB- 7D-7A-2F
12	Lenov	Lenovo Think Centre E63z	P900JQPL	Intel ® Core TM i3- 4005U CPU @ 1.70GHz	4GB	500 GB	00-25-AB- 7D-7A-6F



13	Lenov o	Lenovo Think Centre E63z	P900JQSA	Intel ® Core TM i3- 4005U CPU @ 1.70GHz	4GB	500 GB	00-25-AB- 7D-7A-52
14	Lenov	Lenovo Think Centre E63z	P900JQPX	Intel ® Core TM i3- 4005U CPU @ 1.70GHz	4GB	500 GB	00-25-AB- 7D-6E-47
15	Lenov	Lenovo Think Centre E63z	P900JQT6	Intel ® Core TM i3- 4005U CPU @ 1.70GHz	4GB	500 GB	00-25-AB- 7D-7A-08
16	Lenov	Lenovo Think Centre E63z	P900JQT9	Intel ® Core TM i3- 4005U CPU @ 1.70GHz	4GB	500 GB	00-25-AB- 7D-77-DB
17	Lenov o	Lenovo Think Centre E63z	P900JQPH	Intel ® Core TM i3- 4005U CPU @ 1.70GHz	4GB	500 GB	00-25-AB- 7D-6E-97
18	Lenov o	Lenovo Think Centre E63z	P900JQR1	Intel ® Core TM i3- 4005U CPU @ 1.70GHz	4GB	500 GB	00-25-AB- 7D-6D-E0
19	Lenov	Lenovo Think Centre E63z	P900JQPF	Intel ® Core TM i3- 4005U CPU @ 1.70GHz	4GB	500 GB	00-25-AB- 7D-70-17
20	Lenov	Lenovo Think Centre E63z	P900JQTY	Intel ® Core TM i3- 4005U CPU @ 1.70GHz	4GB	500 GB	00-25-AB- 7D-70-0A
21	Lenov o	Lenovo Think Centre E63z	P900JQSV	Intel ® Core TM i3- 4005U CPU @ 1.70GHz	4GB	500 GB	00-25-AB- 7D-79-AC
22	Lenov	Lenovo Think Centre E63z	P900JQQL	Intel ® Core TM i3- 4005U CPU @ 1.70GHz	4GB	500 GB	00-25-AB-7L- 79-AC
23	Lenov	Lenovo Think Centre E63z	P900JQQD	Intel ® Core TM i3- 4005U CPU @ 1.70GHz	4GB	500 GB	00-25-AB- 7D-6F-8D



24	Lenov o	Lenovo Think Centre E63z	P900JQQB	Intel ® Core TM i3- 4005U CPU @ 1.70GHz	4GB	500 GB	00-25-AB- 7D-7C-C4
25	Lenov	Lenovo Think Centre E63z	P900JQQ2	Intel ® Core TM i3- 4005U CPU @ 1.70GHz	4GB	500 GB	00-25-AB- 7D-79-FA
26	Lenov	Lenovo Think Centre E63z	P900JQSG	Intel ® Core TM i3- 4005U CPU @ 1.70GHz	4GB	500 GB	00-25-AB- 7D-6F-84
27	Lenov	Lenovo Think Centre E63z	P900JQRV	Intel ® Core TM i3- 4005U CPU @ 1.70GHz	4GB	500 GB	00-25-AB- 7D-70-0D
28	Lenov o	Lenovo Think Centre E63z	P900JQRB	Intel ® Core TM i3- 4005U CPU @ 1.70GHz	4GB	500 GB	00-25-AB- 7D-7C-6B
29	Lenov	Lenovo Think Centre E63z	P900JQPW	Intel ® Core TM i3- 4005U CPU @ 1.70GHz	4GB	500 GB	00-25-AB- 7D-6D-FF
30	Lenov	Lenovo Think Centre E63z	P900JQN W	Intel ® Core TM i3- 4005U CPU @ 1.70GHz	4GB	500 GB	00-25-AB- 7D-70-D6
31	Lenov	Lenovo Think Centre E63z	P900JQTL	Intel ® Core TM i3- 4005U CPU @ 1.70GHz	4GB	500 GB	00-25-AB- 7D-79-B0
32	Lenov	Lenovo Think Centre E63z	P900JQPR	Intel ® Core TM i3- 4005U CPU @ 1.70GHz	4GB	500 GB	00-25-AB- 7D-6E-4E
33	Lenov	Lenovo Think Centre E63z	P900JQQQ	Intel ® Core TM i3- 4005U CPU @ 1.70GHz	4GB	500 GB	00-25-AB- 7D-71-01
34	Lenov	Lenovo Think Centre E63z	P900JQP4	Intel ® Core TM i3- 4005U CPU @ 1.70GHz	4GB	500 GB	00-25-AB- 7D-70-E5



35	Lenov o	Lenovo Think Centre E63z	P900JQRA	Intel ® Core TM i3- 4005U CPU @ 1.70GHz	4GB	500 GB	00-25-AB- 7D-70-F5
36	Lenov	Lenovo Think Centre E63z	P900JQPK	Intel ® Core TM i3- 4005U CPU @ 1.70GHz	4GB	500 GB	00-25-AB- 7D-7C-93
37	Lenov o	Lenovo Think Centre A10	L90MA04	Intel ® Core ™ i3-2120 CPU @ 3.30GHz	4GB	260 GB	AC-FD-CE- 84-B7-FA
38	Lenov	Lenovo Think Centre E63z	P900JQPJ	Intel ® Core TM i3- 4005U CPU @ 1.70GHz	4GB	500 GB	F8-0F-41-2E- 51-CC

Items	Functions
PROJECTOR, PANASONIC	Presentation, Training
Computer Cabinet (DELL OPTIPLEX 360, Intel ® Core ™ 2 Duo CPU E7400 @2.80 GHz, RAM 1GB, HDD 160GB, MAC 00-23-AE-87-12-B6) for Projector	Documentation

LIST OF SOFTWARE

S. No.	Item	Quantity	Total Cost
1	QGIS 3.12	20	0 (Open Source)
2	SAGA 8	10	0 (Open Source)
3	SketchUp Desktop 2024.0	20	0 (Open Source)

EXISTING FACILITY/SUPPORT FROM LAB

The Instruments/ equipment and software from the following labs will be used-

- ➤ Computer Aided Design Lab
- Concrete & Material Testing Lab



- ➤ Geo-Mechanics & Environmental Engineering lab
- > Artificial Intelligence lab
- Existing facilities in the Poornima College of Engineering
- Permanent Equipment and Software
- > Desktop and CPU with advanced configuration
- Software available: QGIS, AUTO-CAD
- ➤ Handheld GPS
- ➤ Water quality testing equipment

TEAM MEMBERS

Multi-disciplinary research team are involved from various department at Poornima College of Engineering.

- ➤ Dr. Pran N. Dadhich is the Coordinator of the Centre along with the relevant experts from the following Department of PCE as Members.
- > Department of Civil Engineering
- > Department of Computer Science and Engineering
- Poornima Innovation Incubation Cell
- Research and Development Cell
- ➤ Intellectual Property Right Cell

Dr. Mahesh Bundele B.E., M.E., Ph.D. Director Poornima College of Engineerin



- ➤ CoE Artificial Intelligence and Big Data
- ➤ CoE Automobile and e-Vehicle
- CoE Advanced Wireless Communication

Glimpses of Infrastructure of Centre of Excellence

