Laboratory/Research Facilities

Civil Engineering Department

Sr. No.	Name of the Laboratory	Major Equipment
1	Advanced Transportation Lab (C129)	Benkelman Beam, Marshall Stability Equipment, Digital CBR, Digital Marshal, Dynamic Cone Penetrometer
2	CAD Lab (D204)	Dell Desktop, Core i-5, 11 Gen With 4 GB graphics card, Computer Plotter, AutoCAD Software
3	Computational Lab (E103)	Intel(R) Core(TM) i5-6400 CPU @ 2.70GHz 2.71 GHz Desktop computers with 8 GB RAM, 64 BIT OS Tersest Satellite Image Processing Software, QGIS Software
4	Environment Lab (E101)	Atomic Absorption Spectrophotometer, Muffle Furnace, Split Beam UV- Visible Spectrophotometer Portable Flue Gas Analyzer with Accessories, O2/CO2 Analyzer, Hot Plate – Rectangular S.S. Body & SS Top plate, Shaker - Rotary Shaker, Autoclave - Vertical Type, Electronics Balance, MPN Incubator, DO Meter pH Meter, Handheld pH Meter, Turbidity Meter, Single Stage Water Distillation, Double Stage Water Distillation, Portable stack monitoring kit, The Velocity Monitor, Stack Emission Monitoring (Monitors Dioxin, Furans and heavy metal emissions from the stationary sources)
5	Environmental Engineering Lab (E101A)	Gas Chromatograph, Spectrophotometer, Stack Sampler, BOD Incubator, PM2.5 Micron Respiratory Particulate Matter sampler, High Volume Sampler, Digital Flume Gas Analyzer, BOD Incubator, Digital COD Digester.
6	Geology Lab (E201)	Special Industry Minerals, Thin Sections of The Mineral and Rock, Microscopes, Wooden Models ERDAS software, GPS, Remote sensing Imageries
7	Hydraulic & Fluid Mechanics Lab (C134)	Hydraulic Bench with all accessories, Tilting Flume- 10 Meter, Test Rig of Kaplan, Francis, Pelton Turbine, Centrifugal pump, Reciprocating Pump, Rainfall Simulator, Hydraulic Flume, Lysimeter, Double Ring Infiltrometer, Soil Moisture Tensiometer.

8	Surveying Lab (E106)	ss, Dumpy Levels, Prismatic and Surveyor Compass, Dumpy Levels, Prismatic and Surveyor Compass, Dumpy Levels, Auto Levels, Vernier Theodolites, Stereoscope for 3 D View.
9	Digital Surveying Lab (E105A)	Digital Levels, Digital Theodolites, Total Stations, Digital Levels, Digital Theodolites, Total Stations, Digital Planimeter, DGPS, Unmanned Aerial Vehicle (Drone) with Photogrammetry, Video and Thermal Payload Digital Planimeter, DGPS, Unmanned Aerial Vehicle (Drone) with Photogrammetry, Video and Thermal Payload
10	Transportation Lab (C129)	Marshal Stability Testing machine, Los Angeles Abrasion Testing Machine, Aggregate Impact Tester, Ductility Machine, Traffic Radar, Noise level Meter, Lux Meter, Sieve for gradation of Aggregate and Soil. Soil.
11	Centre of Excellence in Geospatial Technology	Oracle Academic Subscription, Primavera P6 Enterprise Project Portfolio Management 30 Licenses for 3 year PTV Full Academic Licenses (includes the software's 1. PTV Vissim 2. PTV Viswalk, 3. PTV Visum 4. PTV Vistro), 1 network license for 5 years HEXAGONE Remote Sensing- Education Kit – Permanent -5 Licenses HEXAGONE GIS - Education – Permanent - 5 Licenses Dell OptiPlex 7010 Tower 30 Desktop

BIRLA VISHVAKARMA MAHAVIDYALAYA
V. V. NAGAR
PIN-388 120
DIST. ANAND.

Structural Engineering Department

Sr. No.	Name of the Laboratory	Major Equipment
1	Advanced Structural Engineering (A102)	Various apparatus/models for verification of principles of structural analysis
2	Concrete Technology (A107)	Rebound Hammer, Rapid Chloride Penetration Test, Accelerated Curing Tank, Digital concrete moisture meter, Muffle Furnace, Concrete Crack Microscope, Oven Industrial, Concrete Core Drilling Machine, Concrete Core Cutter With Accessories, Concrete Permeability Test Apparatus, Ultrasonic Pulse Velocity meter, Elcometer

		(Cover meter and Half-cell), Vicat Apparatus, Le Chatelier's Apparatus, Mortar Vibrator
3	Earthquake Engineering (A108)	Horizontal & Vertical Shake Table Along With Various Building Models, Vibration Analyzer (4 Channel)
4	Soil Mechanics & Geotechnical Engineering (A103 & A104B)	Liquid limit device with accessories, Direct shear testing machine for soil specimen, Triaxial compression testing machine with accessories, California bearing ratio apparatus, Unconfined Compression Test Apparatus, Standard Proctor Test, Universal testing Machine for Geotextiles, Consolidation test Apparatus
5	Material Testing (A102)	Compression Testing Machine (Digital)- 3000 kN, Compression Testing Machine- 2000 kN, Universal Testing Machine (Digital)- 400 kN, Universal Testing Machine- 1000 kN, Universal Testing Machine- 50 BT Capacity, Flexural Testing machine (Digital), Brinell Hardness Machine, Torsion Testing Machine, Izod Impact Machine
6	Computational Lab (A108 A & A 202 A)	Computers, System Software, Application Software, ANSYS, STAAD PRO, PLAXIS, MATLAB, SAP, ETABS, OASYS, SAFE

Computer Engineering Department

Sr. No.	Name of the Laboratory	Major Equipments
1	F106A - Artificial Intelligence Lab	**Dell Optiplex SFF, 7200 Desktop 48 No's** Core I7 14700 Vpro (33MB Cache), 1 x 32GB DDR5, M.2 2230 512GB NVMe SSD Class 25 AMD Redeon™, 6500 4GB GDDR6 **Senses Smart Board 01 No** Processor: intel 12th Gen. i7 Memory : 16GB DDR4, HDD : 1TB SATA SSD: 256GB Connectivity : Blutooth 4.0, Wifi2.4 Ghz,Ethernet,USB, HDMI, Type C, VGA, Audio.

BIRLA VISHVAKARMA MAHAVIDYALAYA
V. V. NAGAR
PIN-388 120
DIST. ANAND.

2	F106B- Computing Lab	**Dell Optiplex SFF, 7200 Desktop: 28 No's** Core I7 14700 Vpro (33MB Cache), 1 x 32GB DDR5, M.2 2230 512GB NVMe SSD Class 25 AMD Redeon^{TM}, 6500 4GB GDDR6
3	F206 - COE Image Processing & Computer Vision	**Dell Optiplex Tower plus 7010 20 No's** DELL 24" E2423H Display, Processor: Core I7 with GPU, 13th Gen, 2.10 GHz, RAM : 32 GB DDR5 HDD : 1 TB SSD : 512 GB NVME **Senses Smart Board 01 No** Processor: intel 11th Gen. i5 Memory : 16GB DDR4, HDD : 1TB SATA SSD: 256GB Connectivity: Bluetooth 4.0, Wifi2.4 Ghz,Ethernet,USB, HDMI, Type C, VGA, Audio. **Desktop: 01 No** LG 18.5" Display Intel CPU Prcessor: Core I7 8th Gen RAM: 16 GB,DDR4 Harddisk: 1 TB Nvidia: Titan X Graphics card **Desktop : 04 No's** ASUS LED 21.5" Display Processor: Core I7 10thGen RAM: 16 GB DDR4 Harddisk: 1 TB SATA 7200RPM **Desktop : 01 No** BENQ 24" Display Prcessor: Core I7 8th Gen RAM:64 GB,DDR4 HDD: 4 TB SATA, GPU NVDIA, RTX 5000 16 GB

4	F207 - Programming Lab I	**Dell Optiplex 5090 20 No's** LED 18"Display Processor: Intel Core I7-11700 RAM: 8 GB DDR4 M.2 SSD: 512 GB NVME
5	F208 - Programming Lab II	**Acer VT BCS75T13118 20 No's** Acer LED 18.5"Display Processor: Core 8500 8th Gen RAM: 8Gb DDR4 Harddisk: 1 TB SATA
6	F209 - Computer Network Lab	**Laptop Acer 18 No's** 15" Display TM P246M Processor: Core I5 4th gen RAM: 8GB DDR3, Harddisk: 500 GB **Acer LED 18"Display 01 No** Processor: Core I5 4th gen RAM: 4Gb + 4GB DDR3, Harddisk: 500 GB,
7	F409 - Operating System Lab	**Acer VT BCS75T13118 12 No's** Acer LED 18.5"Display Processor: Core 8500 8th Gen RAM: 8GB DDR4 Harddisk: 1 TB SATA **Acer Desktop 13 No's** Processor: Core 8500 4th Gen RAM: 8Gb DDR3 Harddisk: 500 GB **Assemble Desktop : 9 No's** LED 18.5"Display Processor: Core I5 RAM: 4Gb + 4GB DDR3, Harddisk: 500 GB

8	F411- Database Management Lab	**Acer LED 18"Display 27 No's** Processor: Core I5 4th gen RAM: 4Gb + 4GB DDR3, Harddisk: 500 GB, **ACER 01 No** 18" Display Veriton, H110 ,Core I5, 8 GB 6th Gen With Graphics Card, RAM : 1.256 GB DDR3 HDD : 500 GB **Acer: 04 No's** LED 18" Display Processor: Core I5 6th Gen RAM: 8 GB Harddisk :1 TB SSD : 240 GB
9	F409A - System Programming Lab	**Acer 19 No's** LED 18" Display Processor : core I7 4th gen RAM : 8GB DDR3, HDD : 500 GB
10	F107 Server Room	**HPC Server** **Master Node:** Make: Tyrone Model: Camarero SSI100C3S-212L Processor: 1x ICX 4310 (12C/24T 2.1G 18M 10.4GT 120W) (Single CPU) Chipset: Intel® C621A Memory: 2x 32GB DDR4-3200 ECC RDIMM (DIMMs 8) SSD: 2x 960GB SATA 2.5" SSD for OS HDD: 4x 12TB SATA 7.2K RPM 3.5" HDD for DATA **Compute Node:** Make: Tyrone Model: Camarero SDI100A2G-210 Processor: 2x ICX 6338 (32C/64T 2.0G 48M 11.2GT 205W) (Total 64 Core)

BIRLA VISHVAKARMA MAHAVIDYALAYA V. V. NAGAR PIN-388 120 DIST. ANAND.

		Chipset: Intel® C621A Memory: 8x 64GB DDR4-3200 ECC RDIMM (DIMMs 16) SSD: 2x 960GB SATA 2.5" SSD GPU: 2x Nvidia A6000(48GB) **Dell Power Edge T620** C2 X INTEL X eon E5-2609 V2 18.5”Display RAM: 16Gb , HDD: 600 GB X 3=1.8 TB, 4 TB **Assemble Desktop : 1 No** LED 18.5”Display Processor: Core I5 RAM: 4Gb + 4GB DDR3, Harddisk: 500 GB **Laptop Acer 3 No’s** 15” Display TM P246M Processor: Core I5 4th gen RAM: 8GB DDR3, Harddisk: 500 GB **Laptop Acer 3 No’s** 15” Display TM 4740 Processor: Core i3 **Laptop Acer 1 No.** Acer Nitro 5 AN515 Gaming NHQD951.001 Core i7 16GB DDR4 3200 MHz 1 TB SSD + 1TB 15.6” FHD
11	F308 - Seminar Hall	Projector, Shared with EL & EC Department

BIRLA VISHVAKARMA MAHAVIDYALAYA
V. V. NAGAR
PIN-388 120
DIST. ANAND.

ELECTRICAL ENGINEERING DEPARTMENT

Sr.No.	Room No.	Name of Staff Cabin / Lab./ Class	Courses Taught in Labs	
			Course Code	Course Name
1	A-115	Instrumentation Lab.	1) 4EE54 2) 101SB	1) Industrial Instrumentation 2) Electrical Workshop
2	A-117/A	Measurement Lab.	1) 120ES	1) Electrical Measurements and Electronic Instruments
3	A-117/B	Embedded and Automation Lab.	4EE61 3EE07 3EE14 3EE84 4EE64	Embedded Systems MPS and MCS lab IA and Control lab Industrial Automation Wide Area Measurement Systems and applications
4	A-119/A	Basic Electrical Lab.	1) 110ES	1) Basic Electrical Engg
6	A-120	Power System Lab.	4EE02	Power System Protection Lab
7	A-122	High Voltage Lab.	1) 3EE08	1) High Voltage Engg
8	A-123	Computational Lab.	1) 4EE65 2) 3EE03 3) 3EE12 4) 4EE57	1) AI Apps to EE 2) Power System - I Lab 3) Power System - II Lab 4) Power System Practice and Design
9	A-125	Sr. Machine Lab./ Power Electronics Lab/ Electric Drives Lab	1) 4EE55 2) 2EE05 3) 2EE09	1) Electrical Drives 2) Electrical Machine - I Lab 3) Electrical Machine - II Lab
10	A-126	Project (Tinkering Lab)	1) 4EE32 2) 4EE33 3) 4EE34 4) 4EE04 5) 3EE31 6) 2EE11	1) Project Stage - I 2) Project Stage - II 3) External Project 4) Hardware and Software skills Lab 5) Electronics Design Lab 6) Power Electronics Lab
11	A-128	Energy Lab	1) 3EE82 2) 4EE58 3) 4EE60	1) Renewable Energy technology 2) Non Conventional Energy Sources 3) Electrical Energy

BIRLA VISHVAKARMA MAHAVIDYALAYA
V. V. NAGAR
PIN-388 120
DIST. ANAND.

				Conservation and Auditing
12	A-129	Electric Vehicles Lab	4EE63	Electric and Hybrid Vehicles
13	A-227	Analog and Digital Lab	1) 2EE03 2) 118ES 3) 2EE07	1) Analog Electronics Lab 2) Analog and Digital electronics 3) Digital Electronics Lab
14	A-228	Network and Control Lab	1) 3EE05 2) 2EE01 3) 3EE10	1) Signals and Systems Lab 2) Electrical Circuits Analysis 3) Control Systems Lab
15	A-229	Electrical Simulation Lab	1) 4EE03 2) 4EE56 3) 4EE59	1) Computer Aided Electrical Machine Design 2) Electrical Transients and Swtichgear 3) Power System Operation and Control

Electronics Engineering Department

Sr. No.	Name of Laboratory	Major Equipments and Software's
1	Advanced Electronics Design and Simulation Lab-I (F-103)	Computers-20, License software :Xilinx, Vivado, MATLAB, AVR Studio, Keil, Proteus, Scilab, Image & Video Processing kit with GPU DSP Evaluation kit TEXAS IP and Digital Video Development kit, Optical Fiber Kits and Software - OptiWave
2	Advanced Electronics Design and Simulation Lab-II (F-104)	Microcontroller Kits, Computers-20, License software :Xilinx, Vivado, MATLAB, HFSS

3	ELARC (F-202A)	Anechoic chamber, SPECTRUM ANALYZER 3 Ghz AGILENT MAKE RF SIGNAL GENERATOR 9 KHz TO 3 GHz AGILENT MAKE Arbitrary Function Generator-25Mhz,2 channel DSO 200 Mhz Agilent make Scalar Network Analyzer-2.5GHZ Vecor Network Analyzer – 15GHZ
4	Electronics Design and Simulation Lab-II (F-202B)	Computers - 15, Vivado, MATLAB, AVR Studio, Keil, Proteus, Scilab
5	Power Electronics Lab (F 203)	30 Mhz Power CRO, Function Generator, DMM, Power Supply, Kits Of Bio-Medical & Power Electronics,LCRQ Bridge Meter NI ELVIS -3 Power Electronics Add-on Board
6	Control and Instrumentation Lab (F204)	Electrical And Electronics System Trainer Xpo-Ct With Active Passive Filter Panel,Xpo-Pe Power Electronics IGBT/MOSFET Panel,XPO-PID Control Trainer Model,Dc Motor Speed Control With 1 Hp,Ac Motor Speed Control With 0.5 Hp,P, PI,PID Kits, Control Systems,Kit, Instrumentation Kits, CRO, DMM, Power Supply, Function Generators
7	Communication - I Lab (F305)	Analog Communication Trainer,DSB/SSB AM-Transmitter and Receiver Trainer,Arbitrary Function Generator-25Mhz,2 Channel RF Signal Generator 9 KHz To 3 GHz Agilent Make,Satellite Communication Lab,100Mhz Digital Oscilloscope,Arbitrary Waveform Generator
8	Communication - II Lab (F304)	GPS trainer,GSM/GPRS trainer,kitek make fiber optic trainer,kitek make laser diode trainer,DCS 20 VLSI Based Digital communication training system, Spectrum Analyzer 3 MHz(HM 5530), Satellite Communication Trainer
9	Microwave and Antenna Lab (F303)	Scientech Make Micro Wave Test Bench, Scientech Make Transmission Line Trainer,Scientech Make CDMA D 555 Trainer Laser Trainer,Klystron Tube X Band Satellite Communication Trainer,Digital Storage Oscilloscope 200 MHz Agilent Make

BIRLA VISHVAKARMA MAHAVIDYALAYA
V. V. NAGAR
PIN-388 120
DIST. ANAND.

10	Electronics Measurement Lab (F404)	National Instruments Make ELVIS _3 Board NI my RIO -1900 wifi and msp connector NI Sensors Kit
11	Electronics Devices and Circuits Lab (F406)	Logic Trainer Board Digital Multimeter, 30 V Dual Power Supply, Single Power Supply General Purpos
12	Physics Lab (F403)	Ultrasonic Measurement Of Velocity,Band Gap In Semiconductor,V-I Curve Of Solar Cell,Measure Elasticity Young's Module,Velocity Measurement Of Ultrasonic,Hall Effect In Semiconductor.
13	CRIS (Center for Research and Innovation in Semiconductors) - F402A (EL + EC)	20 PCs, Cadence Software Tools for VLSI Design, Other supporting software and kits

Mechanical Engineering Department

Sr. No.	Name of the Laboratory	Major Equipment's
1	CAD	HARDWARE: • PIII 550 MHz Workstation with Acce-7 P IV 1.5 GHz - 08 Nos. • Pentium – 05 Nos. • Pentium Dual Core – 20 Nos. Pentium Core To Duao – 23 Nos. • UPS : APC Make 500 VA, BK 500 MI • PIII 550 MHz Server Make : Seagate • Laptop Acer, Robotic kit, Multifunctional printer, • UPS 600 VA, Portable DVD writer, External Hard Disk (1TB), • Projector Screen with Tripod stand, EPSON LCD

BIRLA VISHVAKARMA MAHAVIDYALAYA
V. V. NAGAR
PIN-388 120
DIST. ANAND.

		Projector:EB-X29, Server Dell Power Edge T430 Motherboard, Acer Veriton H110 core i5 with OS Desktop, CAD Workstation 1, CAD Workstation 2, Work Station (INTEL is), Maxell-projector, Webcam, HIFOCUS web cam, Speaker Artis, Logitech Headphone, One by Wacom CTL SOFTWARES : • Window NT 4.0 Terminal Mechanical Desktop 4.0 Power Pack • University High Software and Direct CAD Translator for MDT 4.0. • Inventor 5.0 • Ansys Fluent Teaching software V 6.3 (4,56,828) ANSYS Academic Teaching V1.2-32200 Nodes Pro-E Wild Fire 4.0 (2.7lakhs) • Autodesk AutoCAD Inventor Professional Suite2010-30 Seats(3,15,000) • 20 Sim 4.4 with 4C real-time Tool Chain, Auto CAST-X1, ANSYS Academic Software Renewals PERIPHERALS: • CAD Workstations - HP Colour Printers CD - Writer : Internal IDE • Personal Computers Motherboard HP Inkjet Printer 1125C • HP Laser Printer 1020 • EPSON LQ 1050 DMP HARDWARE: • Pentium Core To Duao – 24 Nos. • UPS : APC Make 500 VA, BK 500 MI SOFTWARES : • Autodesk AutoCAD Inventor Professional Suite2010-30 Seats

BIRLA VISHVAKARMA MAHAVIDYALAYA
V. V. NAGAR
PIN-388 120
DIST. ANAND.

		• ANSYS Academic Teaching V1.2-32200 Nodes
2	Thermal Power Engineering	• Compound Steam Engine & Simple Steam Engine 3 kW Steam Power Plant, Parson Turbine • 50 KW Parson Reaction Turbine with Generator and surface condenser • Steam generating set-up complete compound steam engine • Steam power plant with Non IBR boiler • Oil fired steam Boiler • Vertical water tube steam boiler • Locomotive boiler
3	Heat Transfer	• Thermal conductivity of insulating powder apparatus Critical Heat Flux • Apparatus for Heat Transfer by Natural Convection Apparatus for Heat Transfer by Force Convection Apparatus for Heat Transfer in Pin Fin by Natural & Force Convection • Apparatus for Heat Transfer through Composite Walls • Apparatus for Effect of Temperature on Thermal Conductivity of Metal Rod • Parallel & Counter Flow Heat Exchanger • Plate Heat Exchanger • Critical Radius of Insulating, Emissivity measurement Apparatus, • Heat pipe demonstration Apparatus • Lagged pipe Apparatus, • Natural convection heat transfer apparatus, • Thermal conductivity of Liquid by Quarded hot plate method, • Two phase heat transfer unit,

BIRLA VISHVAKARMA MAHAVIDYALAYA
V. V. NAGAR
PIN-388 120
DIST. ANAND.

		• Unsteady state conduction heat transfer equipment
4	Turbo Machines Lab.	• Auto Rickshaw Fare meter Testing Facility Fan/Blower • Anemometer • Wind Tunnel and its accessories INSCON Smoke Generating System & Accessory to measure Lift & Drag Force Wind Tunnel Models (1,35,161) Pneumatic Trainer (64,417) • Axial flow fan test rig, Cavitation test Apparatus, • Centrifugal test rig, Hydraulic circuit trainer, Air nozzle test rig • Single stage Air compressor - Two stage air compressor with Air cooled Intercooler and water Cooled Intercooler
5	Automobile Engg. Lab	• Diesel Engine Test Rig with radiator & clutch & accessories (2,38,761) • Multipoint Fuel Injection System - Petrol Engine Test Rig (1,82,712+ 52,053) • Computerized Petrol Engine Test Rig with PC (4,82,000) Variable Compression Ratio Petrol Engine (91,000) • Gas flow meter • CNG kit; LPG kit
6	IC Engine Lab	• Ajit Diesel Engine (2) • Petter Cut Section Diesel Engine Rusten Diesel Engine • Cooper Diesel • Engine Sulzer Diesel Engine • Premier Petrol Engine • Ambesaddor Car Engine • National Gas Engine • Reavell Air Compressor

BIRLA VISHVAKARMA MAHAVIDYALAYA
V. V. NAGAR PIN-388 120 DIST. ANAND.

7	Dynamics of Machines Lab	• Balancing of Rotors • Noise Measurement & Calibration of SLM (Digital) Portable FFT Analyser with accessories • Cut section/models of mechanisms, Cam analysis Apparatus (stroboscope), • Epicyclic gear train and torque holding apparatus, Influence of moment of inertia of flywheel, • Motorized Gyroscope, Static & Dynamic balancing • apparatus, Universal Governor Apparatus, Universal Vibration Apparatus, "Whirling of shaft Apparatus (With non-contact type tachometer)", FFT Analyzer
8	CAM Lab	• VMC430, Jyoti make • State of the art CNC Trainers: • MIRAC PC : CNC turning center & TRIAC PC : CNC Machining Centre • Denford, UK make with simulation software Master CAM • VMC430, Jyoti make
9	Measurement & Instrumentation	• Temperature measurement tutor; Pressure measurement tutor; Displacement measurement tutor; Load measurement tutor; 8-channel data logger with PC & software • Dead weight Pressure gauge tester With Set of weight, Digital Anemometer, Digital Portable Thermometer, Flow Measuring device (Ventueimeter, Orifice meter and Rotameter), • "Pressure Measuring Device (Pr. Gauge & Manometers)", Vacuum gauge, Bomb calorimeter with weighting scale Digital Tachometer, Junker's gas calorimeter with stop watch, Bore gauge 18-35mm LC 0.01,Bore guage35-

BIRLA VISHVAKARMA MAHAVIDYALAYA
V. V. NAGAR
PIN-388 120
DIST. ANAND.

		61mmLC 0.01, "Dial gauge10mm displacement LC 0.01mm",Magnetic dial stand, Magnetic V block Micrometer Screw gauge 0-25mm LC 0.001,"Micrometer Screw gauge • 25-50mm LC 0.001", "Micrometer Screw gauge 50-150mm LC 0.001", • Thread pitch gauge in mm and TPI , "Vernier Bevel Protector 300mm • 0-180" ,Vernier Caliper 0-200mm digital type LC0.01, • Universal Data Logger 20 Universal analog input and 12 dital inputs, with softwar RS 232 output
10	Non-Conventional Energy Sources Lab	• Solar water heating system-125 LPD; • Solar cooker (Box type); • Solar still; Solar dryer; • Solar power plant 250 VA; • solar parabolic cooking system; Biogas plant model; • Sunshine recorder-mechanical; • Pyranometer sensor
11	Refrigeration & A/ C Lab	• VCR system, Heat pump, Air condition test rig, 3ton A/C plant; Artificial cooling tower • Cascade Refrigeration cycle test rig, Refrigeration control display board/ cut model of RAC component, Digital Anemometer, Thermo hydrometer-barometer combine (Digital), "Thermo hydrometer-TH402 (Digital psychrometer)", "Barometer Standard fortin (Mercuri type)", • Computerized Air conditioning cycle-test rig, Vapor • Absorption Refrigeration Trainer-Domestic
12	Model Room	• Various models and cut sections required for EME course

13	Metallurgy Lab 	• Muffle furnaces, mounting press, eddy current tester, polishing equipment's • Computerized micro image analysis System, Inverted metallurgical microscope, Trinocular metallurgical upright microscope, • Eeciflux-Portable: Magnetic Particle Inspection Unit, Digital Rockwell cum superficial Hardness tester, Strohlein's Apparatus (Carbon Sulphur Determination), Abrasive cut-off machine, Single disk polishing machine for metallographic specimen, Spacimen mounting press with accessories, • Laboratory scale Precision Balance, UST Ultrasonic, • A set of 23 Standard Specimens of metal for Micro examination
14	Graphics Lab	• Smart Interactive Board, PC, LCD Projector, PA Podium • with Internet
15	Tinkering Lab.	• Hackshaw frame patti type 2) Hackshaw blades 3) Mini Hackshaw frame 4) Mini Hackshaw blades 5)External Straight pliers 6) Long nose circlip pliers 7) Long nose circlip pliers 8)Combination mini plier 9) Wire streeping pliers 10) Bent nose plier 11) Tweezer Set 12) Ball pan hammer 13) claw hammer 14) C clamp 15) Allen key set • 16) Spanner Set 17)Bench Vice 18) Precision screw driver set 19) ADJU Wrench; • Minifile Set 2) Hand Grinder 3) Air Blower 4) PCB Drill Machine 5) Inverter Welding Machine 6)Hand Drilling Machine; • 40pc multipurpose screw driver set 2) File set 3) Drilling machine Metal Cutting, 1) Light duty lathe machine

16	General 	• High resolution web camera, Handi camera with tripod, Glass door cupboard library, Canon image class Laser printer, Steel cupboard (50*30*17),Wall Mounted projection screens, • EPSON LCD Projector:EB-X29, Projector installation kit+ Installation Charge, Projector Trolly with castor wheel, 125 watt Portable PA amplifier system with remote and 230v Ac power code,50W pa amplifier with buit-in digital player, Dual PA wireless Microphone, PA column speaker with PVC casing & caping having 3 core wire, PA microphone with 6m or more twin core shelded low nose cable, PA VHF wireless Micophone with hand-held and Tie clip, Painted & galvanized box,lock Key, Office, table, Steel Library rack, Book case, Steel Cupboard, Audio podium, System Acer extensa core I5 with Os (Acer destop), Chair (Comp. chair), Canon IR20066 N, Split AC 2 Nos (CAD), Maxell-projector, Digital Boards, Digital Set • up box, Digital Interactive board
17	Dynamics	• Balancing of Rotors • Noise Measurement & Calibration of SLM (Digital) Portable FFT Analyzer with accessories
18	Advanced Metrology	• CNC Coordinate Measuring Machine Roundness • Tester Laser Scan Micrometer Micro-Hardness Tester • Digital Profile projector • CNC Coordinate Measuring • Machine Roundness Tester • Laser Scan Micrometer • Micro-Hardness Tester • Digital Profile projector
19	Computational Lab – Research Lab	• Computers with Pentium Quadra core processors, networked, with peripherals and software

20	Robotics	• HP Laser Printer 1020 • ROBOT:5 axis Articulated Robot ER IV Scorebase Control Software Robocell Simulation Software MACHINE VISION SYSTEM: • CCD Camera, Image Pro Express software HARDWARE: • Pentium Core To Duo • UPS : APC Make 500 VA, BK 500 MI • Rapid prototyping machine (3D Printer) • Dual Channel Dc Power Supply 0-30v , 0-10a • Phrozen Sonic Mighty 8k Printer + Wash & Cure Kit • Creality 3d Printer Crx Pro • Criality Ender 7 • Criality Cv 01 Pro (Laser Engraving) • Smart Door Lock La 28 With Wifi • DLP 3d Printer (Elgoo Mars 4) • LCD 3d Printer (Anycubic Photon Mono M5s) • FDM 3d Printer (Elegoo Neptune 4 Pro) • FDM 3d Printer (Elegoo Neptune 3 Max) • Microtek Hups Jmsw 5500/48v • Exide SMF Battry FE02- EP100-12
21	Smart Manufacturing	• PowerEdge R550 Server: 2×Intel Xenon Silver 4314 2.4G, 16C/32T,10.4GT/s, 24M cache, DDR4-2666, 2× 64 GB RDIMM, 3200 MT/s, 16Gb, 2× 960 GB SSD SATA Mix use, 1 × 1.92 TB SSD SATA Read Intensive, 1 × 8TB 7.2K RPM SAS ISE 12Gbps size 3.5 in Hard Drive

BIRLA VISHVAKARMA MAHAVIDYALAYA
V. V. NAGAR
PIN-388 120
DIST. ANAND.

		• Dell Workstation: Precision 3660 Tower CTO Base, Acceleration i9-12900(30MB cache, 16 core (8P+8E), 2.4 to 5.1 GHz(65W)) TDP, 32GB, 2 × 16 GB, DDR5 up to 4400 MHz UDIMM ECC Memory, 2TB 7200rpm SATA 3.5 " HDD, Nvidia T400 4GB, 4 GB 3mDP to DP adapter • 17U Server Rack 1000 mm Depth • Meta Oculus Quest 3 Advanced all in one Virtual Reality Headset by Facebook(512GB) • Meta Quest Carrying Case • Miniature Coveyor - SVKA-100-900-25-TA115-SCM-5-G • Turck PLC : TX707-P3CV01 • Digital Input Card : BL20-E-16DI-24VDC-P • Digital Output Card : BL20-E-16DO-24VDC-0.5A-P • Analog Input Card : BL20-E-8AI-U/I-4PT/NI/ET • Analog Output Card: BL20-E-4AO-U/I • IO Link Master : TBEN-L5-8IOL • Barcode Reader From Banner Engineering - ABR3009-WSE1

Production Engineering

Sr. No.	Name of the Laboratory	Major Equipment
1	Allied Manufacturing Process(C-125)	Electro Chemical Machine, Electro Discharge Machine, Electro Plating Setup, Lapping Machine, Plastic Extruders 25 mm LDPE Tubing Contain Tower Blower Set Control Panel and Digital Temperature indicator.
2	Computational Lab- (C222)	Dell Server, Zenith Computers, Acer Computers, Canon copier machine, Acer Laptop, Samsung Digital Board

3	Material Science & Physical Metallurgy Lab (C314)	Century Digital Conductivity Meter (Model: Sr No 303) Supplied with All Accessories, Inverted Metallurgical Microscopes (Model: Vaisheshika), Lab Muffle Furnace, Magnetic Particle Crack Detector (Model: Radent-2000),Wet polishing mill
4	Productivity Improvement Method Lab (C317)	TKK 5101 Grip-P,TKK 5102 Back - D, Whole Body Reaction measuring equipment
5	Rapid Prototyping & Additive Manufacturing Lab	3D Printer Kits(Model:Prusa), Desktop 3D Printers (Model: Pratham), Heavy duty 3D Printer (Model: Pratham-3) Projector, Projection screen,Formlab 3L SLA 3-D Printer,Shining 3D EinScan Pro 2 3D Scanner, Allenware Laptop, Elegoo Neptune 4 Pro and Neptune 3Max FDM 3D Printer

BIRLA VISHVAKARMA MAHAVIDYALAYA
V. V. NAGAR
PIN-388 120
DIST. ANAND

Electronics and communication Engineering

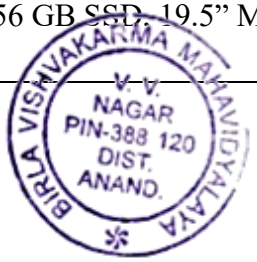
Sr. No.	Name of the Laboratory	Major Equipment
1	Communication Lab F304 and F305	Analog Communication Trainer,DSB/SSB AM- Transmitter and Receiver Trainer,Arbitrary Function Generator-25Mhz,2 Channel RF Signal Generator 9 KHz To 3 GHz Agilent Make,Satellite Communication Lab,100Mhz Digital Oscilloscope,Arbitrary Waveform Generator, GPS trainer,GSM/GPRS trainer,kitek make fiber optic trainer,kitek make laser diode trainer,DCS 20 VLSI Based Digital communication training system, Spectrum Analyzer 3 MHz(HM 5530).
2	Advanced Computing Lab F312 and F408	License software : Xilinx, Vivado, MATLAB, CISCO Packet Tracer, Computers-40.
3	IOT Infrastructure Lab H208	Nebula Gateway and Nods V.3 Demonstration Board, Computers-15 .

4	Embedded and VLSI Lab F312	8051 Microcontroller Advanced Kits,8085 Microprocessor Kits, Interface Card, Arduino UNO Board with USB power cable,Wi-Fi Serial Ethernet shield Zigbee2.4GHz Transceiver 100 Mtr range, Universal Programmer.
5	Control and Instrumentation System Lab F204	Electrical And Electronics System Trainer Xpo-Ct With Active Passive Filter Panel,Xpo-Pe Power Electronics IGBT/MOSFET Panel, XPO-PID Control Trainer Model,Dc Motor Speed Control With 1 HP, AC Motor Speed Control With 0.5 HP, P, PI, PID Kits, Control Systems Kit, Instrumentation Kits, CRO, DMM, Power Supply, Function Generators
6	Microwave and Antenna Lab F303	Scientech Make MicroWave Test Bench, Scientech Make Transmission Line Trainer,Scientech Make CDMA D 555 Trainer Laser Trainer, Klystron Tube X Band Satellite Communication Trainer,Digital Storage Oscilloscope 200 MHz Agilent Make,Radar Trainer (NV 2001)
7	Power Electronics Lab F203	CRO, Function Generator, DMM, Power Supply, Kits Of Bio-Medical & Power Electronics,LCRQ Bridge Meter
8	ELECTRONICS DESIGN AND SIMULATION LAB F202B	LabView, OrCAD PCB Design
9	Physics Lab F403	Ultrasonic Measurement Of Velocity,Band Gap In Semiconductor,V-I Curve Of Solar Cell,Measure Elasticity Young's Module,Velocity Measurement Of Ultrasonic,Hall Effect In Semiconductor.
10	Logic Design And Radar Lab	Digital Electronics Kit, EPABX TRAINING SYSTEM,- Digital Logic Trainer TTL/ Logic Trainer Board, Boolen Algebra Trainer.
11	Basic Electronics Lab F406	Kits Of Various Theorem, 30 MHz Cathode Ray Oscilloscope, Function Generator, Digital Multimeter, 30 V Dual/Single Power Supply,Digital Storage Oscilloscope.
12	CRIS (Center for Research and Innovation in Semiconductors) - F402A (EL + EC)	20 PCs, Cadence Software Tools for VLSI Design, Other supporting software and kits

BIRLA VISHVAKARMA MAHAVIDYALAYA
V. V. NAGAR
PIN-388 120
DIST. ANAND.

Information Technology

Name of Lab	Equipment	No of computer
B201 High Computing Lab	Dell AIO : Intel Core processor I7-1165G7 (11h Generation), 16 GB RAM, 1TB Hard Disk, 512 GB SSD, 2 GB Graphics Card MX 330, 27" FHD IPS TOUCH, No ODD/Wifi + BT, Wireless Keyboard & Mouse, McAfee Antivirus – 15 months, Windows 10 & MS Office, Windows 11 Home OS, MS Office 365, Adobe reader	26
B203 b AI Lab	Intel Core i7 9th Generation Processor (9700f), ASUS H410M-E Motherboard, 16 GB DDR-4 RAM(Adata)–2666 Mhz, 500 GB SSD – WD Blue, 2 GB Graphics Card Nvidea Geforce GTX-1030,20" LED Monitor Dell, USB combo Keyboard & Mouse – Dell, ATX Cabinet with SMPS- FOXIN/ INTEX	10
B203 B AI Lab	Acer M200 : Intel Core i3, H61 Chipset Motherboard, 8 GB DDR3 RAM, 500 GB SSD, Acer Keyboard & Mouse, 18.5" LCD Monitor	12
B 203 C Programming Lab	Intel Core i7 9th Generation Processor (9700f), ASUS H410M-E Motherboard, 16 GB DDR-4 RAM(Adata)–2666 Mhz, 500 GB SSD – WD Blue, 2 GB Graphics Card Nvidea Geforce GTX-1030,20" LED Monitor Dell, USB combo Keyboard & Mouse – Dell, ATX Cabinet with SMPS- FOXIN/ INTEX	24
B 206 B Central Computing Facility	Acer M200-Q87 : Intel Core i5, 16 GB DDR3 RAM, 256 GB SSD, 19.5" Monitor, Keyboard, Mouse	20
B 206 C	Acer M200-H110 : Intel Core i5, 16 GB DDR4 RAM, 256 GB SSD, 19.5" Monitor, Keyboard, Mouse	20
B 209 Central Computing Facility & Internet Laboratory	Acer M200-Q87 : Intel Core i5, 16 GB DDR3 RAM, 256 GB SSD, 19.5" Monitor, Keyboard, Mouse	38
B 209 Central Computing	Acer M200-H110 : Intel Core i5, 16 GB DDR4 RAM, 256 GB SSD, 19.5" Monitor, Keyboard, Mouse	2



Facility & Internet Laboratory		
B301 Programming Lab II	Acer M200-H81: Intel core i5, 4 GB RAM, 500 GB HDD ,18.5" LED Monitor, Keyboard, Mouse	10
B301 Programming Lab II	Acer M200-H81: Intel core i7, 4 GB RAM, 500 GB HDD ,18.5" LED Monitor, Keyboard, Mouse	8
B301 Programming Lab II	Acer M200-H61: Intel core i5, 4 GB RAM, 500 GB HDD ,18.5" LED Monitor, Keyboard, Mouse	9
B301 Programming Lab II	Acer M200-H110: Intel core i5, 8 GB RAM, 1 TB HDD ,18.5" LED Monitor, Keyboard, Mouse	9
B302 Project Lab	Dell OptiPlex Tower Intel Core i7 13th Gen, 16 GB DDR5 RAM, 500GB SSD, Keyboard, Mouse, 20.5" LED Monitor	20
B305 Computer Network Lab	Dell OptiPlex Tower Intel Core i7, 8 GB DDR5 RAM, 500GB SSD, Keyboard, Mouse, 20.5" LED Monitor	30
B305 Computer Network Lab	Acer M200-H61: Intel core i5 11 gen, 4 GB RAM, 500 GB HDD ,18.5" LED Monitor, Keyboard, Mouse	6
B309 Database Lab	Acer M200-H61: Intel core i3, 4 GB RAM, 500 GB HDD ,18.5" LED Monitor, Keyboard, Mouse	36

Mathematics Department

Sr. No.	Name of the Laboratory	Major Equipments
1	Computational Lab (A215)	Acer PC – 10 [Core i3, 4GB Ram, 500 Gb Hdd, 18.5” LCD Monitor], 24 Port Switch-1

Laboratory Equipment Details of Workshop

1. ADVANCE CAM LAB

Sr. No	Equipment Name	Nos
1	CNC Vertical Machine Centre VMC – 430, Make : Jyoti	01 No
2	Reciprocating Air Compressor, Delivery 8.8 c.m. Tank Cap. 160 liters Elgi Make	01 No
3	Automatic Servo Controlled Voltage Stabilizer Input – 340v-480v, Output – 415v 1%	01 No
4	Lock Down Jaw Milling Machine Vice – 190 MM-MMV-6HXL	01 No
5	Boring Head GIN-BHC3, With Taper Shank + Boring Tool	01 No
6	Collect Chuck – BT40ER25-100, With Spanner	03 Nos.
7	Collect Chuck – BT40ER32-100, With Spanner	02 Nos.
8	Three Jaw Chuck-Accuracy, Adj-250mm AAC-3	01 No
9	STRAP CLAMP –FORGED BODY -TSCF12	06 Nos.
10	Plain Clamp – TES-12	06 Nos.
11	Strap Clamp – Forgel - TSCF-16	06 Nos.
12	Plain Clamp – TES-16	06 Nos.
13	LEVELING JACK LJ-1 (A0	04 Nos.
14	Height Block – HBL - 75	04 Nos.
15	T BOLT TTB 12-14-60	06 Nos.
16	T BOLT TTB 12-14-80	06 Nos.
17	T BOLT TTB 12-14-100	06 Nos.
18	T BOLT TTB 12-14-125	06 Nos.
19	T BOLT TTB 12-14-160	06 Nos.
20	T BOLT TTB 12-14-200	06 Nos.
21	FLANGED NUT-TEN-12	50 Nos.
22	EXTENSION NUT – TEB12	06 Nos.
23	C – WASHER – TEW - 12	25 Nos.
24	CLAMPING KIT TCK-58-14-12	01 No
25	T – NUT – TTN – 1412	12 Nos.
26	Precision Steel Parallels – TSP - 35	01 No
27	EDGE FINDER - EFR10	01 No
28	Magnetic V-Block, MVB/4P/HARD MVB-4-H	01 No
29	Keyless Drill Chuck BT40-APU13, NC Drill Chuck	01 No
30	ER25 Collect - 3mm , ER 25 Collects 3.67	03 Nos.

31	ER25 Collect - 9mm, ER 25 Collects (9,10,13,14,15,17,18,19,20)	09 Nos.
32	Pull Stud - BT40X15	06 Nos.
33	Insertable End Mill Dia – 25mm (With Holder & Inserts 10 Nos.)	01 No
34	FACE Mill Cutter - 80mm, (With face Mill Holder – Inserts – 10 Nos.)	01 No
35	Precision Steel Parallels – TSP - 20	01 No
36	Precision Steel Parallels – TSP - 45	01 No
37	Precision Steel Parallels – TSP - 55	01 No
38	Precision Steel Parallels – TSP - 60	01 No
39	Steel V Block - SVB 50	01 No
40	Steel V Block - SVB 100	01 No
41	Steel V Block - SVB 150	01 No
42	Self Centring Vice - 150mm	01 No

BIRLA VISHVAKARMA MAHAVIDYALAYA
V. V. NAGAR PIN-388 120 DIST. ANAND.

2. Foundry & Casting LAB

Sr. No	Equipment Name	Nos
1	Hand Moulding Machine Pin Lift hand Square Moulding Machine, Model MA Table Size : 27½" x 19" Depth of draw : 4½	01 No
2	Super Burn Oil Fired Tilting Furnace Model T-100 Blower No 4 Nandi Brand with Elect Moter	01 No
3	Electric Driven Centrifugal Blower Moter No. 4924 3HP	01 No
4	Induction Furnace for Melting Capacity 5 Kg. Aluminium, Max Temperature 1200c. With cooling Tower Melting Pot & Tilting Mechanism	01 Set (1 No)

3. Sand Testing Lab & Casting LAB

Sr. No	Equipment Name	Nos
1	Sand Testing Compressor Machine with Rotating Screw with Dial Ridsdute & co. Ltd, Sr. No. 9565	01 No
2	Sand Testing Compressor Heary wt. That can be moved reliably Machine with Rotating Screw with Dial	01 No

	Ridsdute & co. Ltd, Sr. No. 9565	
3	Permeability Meter Sr. No. 65613, Ridsdale & Co. Ltd	01 No
4	Moulding Machine with falling wt. For marking mould of sand, Sr. No. 7563, Ridsdale & Co. Ltd	01 No
5	Sand Serving Machine operated (elco) and with 11 (Eleven) Test Sires 300,200,150,100,60,44,30,22,16,10,8, a mesh lid & receiver, Sr. No. 6561 Ridsdale & Co. Ltd	11 Nos.
6	Sand Testing Instrument Elect Operated, Sr. No. 2569	01 No
7	Nova Make Hot Air Oven, Lab. Model No. NV 588 Lanner is made of Stainless Steel, Size : 18" x 18" x 18"	01 No
8	Laboratory Sand Mill Green Hardness Tester Core Hardness Tester	01 No 01 No 01 No
9	Permeability Meter (Tester), B. No.595,Make Kelson Testing Equip.	01 No
10	Universal Strength Machine, B. No.595, Make Kelson Testing Equip. (Mechanical & Digital Computer Interface	01 No
11	Mould Hardness Tester (B Scale), B. No.595,Make Kelson Testing Equip.	01 No
12	Repaid Moisture Tester, B. No.595,Make Kelson Testing Equip.	01 No
13	Foundry Tool Kit, B. No.595,Make Kelson Testing Equip.	01 No
14	Sand Washer, B. No.595,Make Kelson Testing Equip.	01 No
15	Rapid Drier, B. No.595,Make Kelson Testing Equip.	01 No
16	Mouldability Tester, B. No.595,Make Kelson Testing Equip.	01 No
17	Sand Muller, B. No.595,Make Kelson Testing Equip.	01 No
18	Core Hardness Tester, B. No.595,Make Kelson Testing Equip.	01 No

4. Smithy Shop

Sr. No	Equipment Name	Nos
1	W. I. Anvil	08 Nos.
2	C. I. Swage Block	01 No
3	Electrically Driven Centrifugal Blower	01 No
4	Power Hammer with Anvil	01 No
5	Smithy Vice Staple Vice	04 Nos.
6	Hand Operated Shearing	01 No.

BIRLA VISHVAKARMA MAHAVIDYALAYA
V. V. NAGAR
PIN-388 120
DIST. ANAND.

5. Electro Plating Shop

Sr. No	Equipment Name	Nos
1	M. S. Tank with Lead Lining Size ; 30" x 18" x 18"	01 No.
2	Plastic P. V. C. National Electroplating Tank = 220Liter size : 2' x 2' x 2'	03 Nos.

6. Sheet Metal Shop

Sr. No	Equipment Name	Nos
1	Potable Forge with Hand Blower	01 No
2	Jumma Dinesh Make Hand Operated Hydraulic Pipe Bending Machine	01 No
3	Fly Wheel Press (Metal forming Lab.)	01 No
4	Spray Painting Machine (Fuji Japan Make)	01 No
5	ELGI Compressor (Plastic Lab.)	01 No
6	Fitting Pipe Vice	01 No
7	Pipe Vice size : 2"	01 No

7. Fitting Shop

Sr. No	Equipment Name	Nos
1	Parelled Jaw Bench Vice Size : 4½" 5" 6"	 13 Nos. 08 Nos. 09 Nos.
2	Marking Table with Surface Plate Size : 36" x 24"	 01 No
3	Anvil – Square	01 No

8. Carpentry Shop

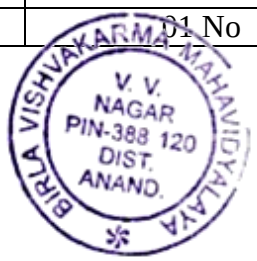
Sr. No	Equipment Name	Nos
1	Carpentry Shiraji Vice : Size : 7"	02 Nos.
2	Carpentry Shiraji Vice : Size : 9"	07 Nos.
3	Carpentry Shiraji Vice : Size : 10"	01 No
4	Bhavani Brand Thickness Planner Size : 450 x 200 H	01 No

BIRLA VISHVAKARMA MAHAVIDYALAYA
V. V. NAGAR
PIN-388 120
DIST. ANAND.

5	Surface with Saw Attachment Size 300 x 1295, Model CS 13	01 No
6	Bhavani Brand MARU Brand Wood and Metal Cutting Band Saw	01 No
7	Blade Grinder, 440 kg. Model G 2	01 No
8	Self Gripping Jainers Clamp – 4' Long	01 No
9	Self Gripping Jainers Clamp – 3' Long	01 No
10	Drill Machine (BVM/E1/28/2)	01 No

9. Welding Shop

Sr. No	Equipment Name	Nos
1	Oxygen Gas Cylinder No. 118668, Cap. 220 Cu ti	01 No
2	Spot Welding Machine Type Sp, Italy Make	01 No
3	Pug – Cutting Machine for Gas Cutting No. 4/31/MA 16, Machine No. 66/D-88 with Rail	01 No
4	Trolly for Oxygen & Acetylene Gas Cylinder	01 No
5	Welding Standard Tool Kit (Nozzles), Catogen Set = 1/8, 3/64. 1/32,	01 No
6	Advani Oerliken Make A/c D/c Tig Control Out Fit, Sr. No. 22 / 8911428 Unit Auxiliary unit Au 45/5 DC with water Hoses with E/ can Torch with Acce. STW 50 W 3.5, With Set of Welding Accessories Tig & Set of Inter connoting Cables between the Tig Control	01 No
7	Air Cooled Welding Transformer, RED 401, Sr. No. 89 / 1043	01 No
8	Pressure Regulator cum flow meter	01 No
9	AOL Make : Sub Merged ARC Welding Machine Model Adov. Subarc-601 Power Source CPR 60 A welding head up – 15 cp. Control cable 10M Track for carriage 2 m Sr. No. 13/89112661 & of Trolly S. No. 32/8912798	01 No
10	Plasma Cutting Machine, Sr. No. 21/8912373 D. C. Retifier Power source with Built in H. P. Contactor water circulatory system	01 No
11	Pressure Regulator cum Flow Meter Plasma	01 No
12	Power Con – 400 Machine Make : Ador Welding Ltd, MMA Welding Rectifier, Model No. 23/06707937	01 No
13	Welding Transfermer, Model ADGR-ROD, 200 amps., Sr. No. 9202185	01 No
14	ESAB Make Saffire C.W.H.P., Blowpipe 8/93 M. 0503 Tip. No. Nozal 2, 7, 6, 13 = 4 Nos	01 No
15	Netron Make, NR1B Blower, A 135/17	01 No
16	Saffire L.N. ISI M. P. Welding, Blow Pipe ESAB Make	01 No



17	Argon Empty Gas Cylinder No. B-2400 With Cap and Valve W.C. (Ltr) 46.7	01 No
18	Oxygen Empty Gas Cylinder No. B – 2326 With Cap and Valve W.C. (Ltr) 46.7	01 No
19	Acetylene Empty Gas Cylinder No. B – 2326 With Cap and Valve W.C.	01 No

10. Machine Tool LAb

Sr. No	Equipment Name	Nos
1	Three Dimension Pantograph Milling Machine Model sew-21 With All Accessories & Attachments	01 No
2	Universal Milling Machine, FA 3 U Batliboi Make With All Accessories & Attachments	01 No
3	Universal Tool & Cutter Grander Model GTC – 28 T with Power rise and tall of wheel head Complete With All Accessories & Attachments	01 No
4	Hydraulic Cylindrical Grinder Machine Model No. K – 300 500 u. With All standard Accessories & Attachments	01 No
5	PMT Single Spindle Automatic Lathe Machine Model A 25 M/c No A25/05353/8 With All Accessories & Attachments	01 No
6	Oriental 25 Ton Frame Hydraulic Press Machine No. 368/1989 Cost of the Machine 150 mm stroke 5 Ton Cap	01 No

BIRLA VISHVAKARMA MAHAVIDYALAYA V. V. NAGAR PIN-388 120 DIST. ANAND.

11. Machine Shop

Sr. No	Equipment Name	Nos
1	M. K. Make Planning Machine Size : 2’ x 2’ x 4’ Type LEPHAN, Machine No. S. 138/VS5	01 No
2	Ormerod Shaping Machine 20” Storke, Machine No. M 7839	01 No
3	Cooper Make Heigh Speed Shaping Machine – 12’ Stroke, Machine No. 12643	01 No
4	ATLAS Make Shaping Machine, Model GSM – 24 all geared drive 24” Stroke	01 No
5	ORMEROD – Slotting Machine, High Speed Slotting Machine 8” Stroke	01 No
6	Richmond Universal Milling Machine, Model 03, Size of Table 3½” x 9½”	01 No

7	PRAGA Pillar precision Drilling Machine, Machine No. P/1172	01 No
8	Radial Drilling Machine, High Speed Motorised Radial Drilling Machine Make : Kiteben & wade ltd, Length of Radial Aram 4', Machine No. 13263	01 No
9	MATTERSON Bevel Gear Generating attachment, Size : 6" Bevel Gear on Shaper cuts 4 DP in Castlron	01 No
10	Precesion Swirel Base Machine Vice Having detachable Swirel base graduated in degree fitted with hardened jaws , Size : 8"	01 No
11	Precision Swivel base Machine Vice, Size : 6"	01 No
12	Lathe Tool Dynamometer 300 kg in x, y and z with 3-component digital read-out. Tool Size 16 X 16, With Rs 232 port	01 No
13	Milling Tool Dynamometer 300 kg in x, y and z with 3-component digital rood-out. Tool Size 16 X 16, With Rs 232 port	01 No
14	Drilling Tool Dynamometer, 500 kg Thrust Load 15 Kg. m Torque with 2 axis digital read-out, With Rs 232 port	01 No
15	Grinder Tool Dynamometer 200 kg in x, y and z with 3-component digital read-out. Tool Size 16 X 16, With Rs 232 port	01 No
16	Computer Software for Data Logging in to computer from Dynamometer	01 No
12	Lathe Tool Dynamometer 300 kg in x, y and z with 3-component digital read-out. Tool Size 16 X 16, With Rs 232 port	01 No

12. Turning Shop

Sr. No	Equipment Name	Nos
1	M. K. Make Centre Lathe 6½" Centre height X 6½" ft bed length No. , Bed No. 65A VGN91 With All Accessories	01 No
2	M. K. Make Centre Lathe 9¼" Centre height X 8'-10" bed length Shimoga No. 2 , Bed No S 856 V 566 With All Accessories	01 No
3	Simplex Semi Automatic Turret Lathe Model : Mondiale Bed No. SD 5U27 UK	01 No

	With All Accessories	
4	Murad High – Speed Capstan Lathe 6" centre HT x 2½ ft bed length Model 36 Serial No. 1111 With All Accessories	01 No
5	M. K. Make Centre Lathe, 165 mm Cen. Ht X 600 mm Distance be Centre Harihar D-1 First Grade Type With All Accessories Bed No. D-1/65/1275 Bed No. D-1/66/1135 Bed No. D-1/65/1129 Bed No. D-1/65/1282 Bed No. D-1/66/1317 Bed No. D-1/66/1339 Bed No. D-1/66/1315 Bed No. D-1/66/1333 Bed No. D-1/66/1320 Bed No. D-1/66/1318 Bed No. D-1/66/1347 Bed No. D-1/66/1368	12 Nos.
6	Fitting Vice Size : 4½"	01 No
7	Surface Plate 24" x 18"	01 No
8	Anvil Square	01 No

BIRLA VISHVAKARMA MAHAVIDYALAYA
V. V. NAGAR
PIN-388 120
DIST. ANAND.

13. Advance Metrology Lab

Sr. No	Equipment Name	Nos
1	Heaxagon Metrology Make Moving Bridge Type CMM Globel Classic 5.7.5	01 No
2	Laser Scan Micrometer LAM – 503	01 No
3	Micro Hardness Tester HM – 112	01 No
4	Digital Profiel Projector PJ – A3005D – 50	01 No
5	Roundness Testing Machine with 'Roundpak' Software RA – 116D	01 No
6	Measuring Microscope MF – A 1010 H	01 No
7	Protable Surface Roughness Tester SJ 201	01 No
8	On Line UPS 3KVA With 20min Battery Backup	01 No
9	Refrigerated Type Air Dryer For Dry Air	01 No
10	Air Compressor Elgi Make	01 No
11	Computer 2-8 GHz Pentium core to Daul processor with 2GB RAM, 250 GB HDD, 19" LCD Monitor Computer System Table, Laser Printer 1020.	01 No

14. PROCESS LAB (CAM LAB)

Sr. No	Equipment Name	Nos
1	Elektrameric CNC Retro fit System with all Std. Features & Suitable mounting bkts.	01 No
2	PHOTOPHONE Over Head mark III f with fesnollens Halogen Lamp Spare Halogen Lamp Projection Screen with Pearl finish fabric Size : 52" x 70"	01 No 01 No 01 No 01 No
3	Mirac PC CNC slant bed Lathe, With Accessories	01 No
4	Tirac PC 3 Axes CNC Bench Milling Machine Machine with Accessories	01 No
5	ELGI Make Air Compressor, Model LG 50B equipped with air filter, moisture separator, pressure switch, with starter.	01 no
6	U.P.S. cap- 600VA Model Bk – 5001, Make ; A.P.C.	01 No
7	Hard – Disk Drive cap – 1-08GB, Make : Seagate	01 No
8	Constant Voltage Trf. Cap. 400VA, Model BAVR 400 I	01 No
9	Constant Voltage Trf., Cap. 400VA Model : BAVR 4001, Make : Bhurji	05 Nos.
10	Trorendo Trendi Vacuum Cleaner	01 No
11	Up gradation of Old Computer in CAM Lab, With All Accessories	01 No
12	APC 20 min Backup 500VA UPC - 14476	01 No
13	UMAX SCANNER – ASTRA, 3600 U - 14754	01 No
14	Up gradation Computer in CAM Lab, With All Accessories	01 No
15	Up gradation of Old Computer in CAM Lab, With All Accessories	01 No
16	3 KVA , CCT (Hitek) Units	01 No
17	Computer Type – 2, Inter 7th Generation Core 15-7600 Processor Motherboard H110 Chipset, With All Accessories EØDS-SE93B43A EØDS-SE93D1E6 EØDS-SE945241 EØDS-SE93D669 EØDS-SE93D1D6 EØDS-SE93D1E5 EØDS-SE93CD98 EØDS-SE9190B5 EØDS-SE9190B6	 01 No 01 No 01 No 01 No 01 No 01 No 01 No 01 No 01 No

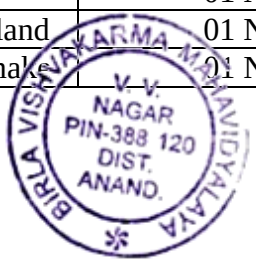
BIRLA VISHVAKARMA MAHAVIDYALAYA
V. V. NAGAR
PIN-388 120
DIST. ANAND.

15. METROLOGY LAB

Sr. No	Equipment Name	Nos
1	Out Side Micrometer, Size 0" to 1" = 1 No. (Vernier micrometer) Moore and Wright No 965 B, England	01 No

2	Out Side Micrometer Size 0” to 1” (Vernier micrometer) Moore and Wright, No 436 The L. S Starret C. U.S.A	01 No
3	Out Side Micrometer Size 0” to 1” Moore and Wright, No 965 B England	01 No
4	Out Side Micrometer, Size 0” to 1” (Vernier micrometer) Moore and Wright, No965 B England	01 No
5	Out Side Micrometer, Size 0” to 1” (Vernier micrometer) Moore and Wright, No 965 B England	01 No
6	Out Side Micrometer, Size 0” to 1” (Vernier micrometer) Moore and Wright, No 961 B England	01 No
7	Out Side Micrometer, Size 1” to 2” (Vernier micrometer) Moore and Wright, No 966 B England	01 No
8	Out Side Micrometer, Size 0” to 2” Moore and Wright England, No 940	01 No
9	Out Side Micrometer, Size 2” to 3” Moore and Wright England, No 967	01 No
10	Out Side Micrometer, Size 3” to 4” Moore and Wright England, No 968	01 No
11	Out Side Adjustable Micrometer, Size 0” to 4”; Moore and Wright England, No 941	01 No
12	Out Side Micrometer,Size 2” to 6” = 1 No. No 224 Starret Co. U.S.A	01 No
13	In Side Micrometer, Size 8” to 33” = 1 No. Moore and Wright England No 908	01 No
14	In Side Micrometer, Size 2” to 6” = 1 No. No 124A Starret U.S.A	01 No
15	Vernier Micrometer (Outside), 0 to 25 mm 965 M, Moore and Wright England	01 No
16	Out Side Micrometer, 0 to 25 mm 965 M. Moore and Wright England	01 No
17	Out Side Micrometer, 0 to 25 mm 965 M.	01 No
	Moore and Wright England	
18	Out Side Micrometer, 0 to 25 mm 965 M.	01 No
	Moore and Wright England	
19	Out Side Micrometer, 0 to 25 mm 965 M.	01 No
	Moore and Wright England	
20	Out Side Micrometer, 0 to 25 mm 965 M.	01 No
	Moore and Wright England	
22	Out Side Micrometer, 25 to 50 mm 966 M. Moore and Wright England	01 No
23	Out Side Micrometer, 25 to 50 mm 966 M. Moore and Wright England	01 No
24	Out Side Micrometer, 25 to 50 mm 966 M. Moore and Wright England	01 No

25	Out Side Micrometer, 25 to 50 mm 966 M. Moore and Wright England	01 No
26	Out Side Micrometer, 25 to 50 mm 966 M. Moore and Wright England	01 No
27	Out Side Micrometer, 25 to 50 mm 966 M. Moore and Wright England	01 No
28	Out Side Micrometer, 50 to 75 mm 966 M. Moore and Wright England	01 No
29	Out Side Micrometer, 50 to 75 mm 966 M. Moore and Wright England	01 No
30	Out Side Micrometer, 75 to 100 mm 966 M. Moore and Wright England	01 No
31	Out Side Micrometer, 75 to 100 mm 966 M. Moore and Wright England	01 No
32	Out Side Micrometer, (indicator type) Call-Mahar Germany, No 230634	01 No
33	Out Side Micrometer, Dial Indicator type, Size 0-25mm Mitutoya Japan Make, No 510-201	01 No
34	In Side Micrometer, 5-25 mm 0.01mm No 97712, Mitutoya Japan Make	01 No
35	Telescopic Inside Micrometer (Adjustable), 50-310 mm F.S.O Moore & Wright England	01 No
36	Out Side Micrometer (Disc type), Size 0-25mm Mitutoya Japan Make, Code No 123-101 A.	01 No
37	Gear Tooth Vernier Calliper, No 45613 0-3”	01 No
38	Vernier Calliper, 0-15 cm size 6” 0.15cm, Mitutoya Japan	01 No
39	Vernier Calliper, Size 12” 0.30 cm	01 No
40	Bore Gauge with dial, Model PM-14 Rod No 573859-44, OLDAK British	01 No
41	Magnetic Base, AT No 900 A Eclipe, Sheffied England	01 No
42	Dial-Sheet Gauge, No. 170, L.C 0.001”, Starret U.S.A	01 No
43	Dial Test Indicator, No 2937, L.C 0.01mm	01 No
44	Starret Dial Test Indicator (with Attachments), No 196 A, L.C 0.01”	01 No
45	Dial Test Indicator, Range 0.8mm, L.C 0.01mm Mitutoya Japan Make, No 513—117	01 No
46	Stop Watch, ROCAR Swiss make	01 No
47	Hand Techometer	01 No
48	Accessories for Techometer	01 Set
49	Slip Gauge set 87 Pieces, No 82306 USSR make	01 Set
50	Matrix Sine-Bar 10”, CE & T Co Ltd.	01 No
51	Optical Flat 8.5 cm diameter 2 pieces	01 No
52	Matric Screw Pitch Gauge, No 803, Moore & Wright England	01 No
53	Screw Pitch Gauge, Withworth 550, CAFRICO German make	01 No



54	Screw Pitch Gauge, Voget Germany, St D/N 13/14	01 No
55	Imperial Standard, Wire Gauge ROEBUCK	01 No
56	Drill and wire Gauge Chart, Formie Screw Top U.S.A, No. 185	01 No
57	Morse Twist Drill Gauge, No 1064	01 No
58	Fillet Gauge No. 279	01 No
59	The Starrett Co U.S.A make, Thickness Gauge 31/2" long, 0.025-635mm	01 No
60	Combination Set(New), Mitutoya Japan Make	01 No
61	Universal Bevel Protector Carl-Mahar, Essilingan 9 N, Germany	01 No
62	Universal Bevel Protector With magnifying glass (New), Made in Poland	01 No
63	Stanley Iron Spirit Level 12", U.S.A make	01 No
64	Double Ended cylindrical Plug-Gauge, Size ½", 5/8",3/4",1" = 4 Nos Praga-make oxxx	04 No
65	Morse Taper Plug Gauges, MT-1 MT-2 MT3 Erich =2 Nos, Total = 6 Nos. Praga-make	06 No
66	Morse Taper Plug Gauges, MT-4 MT-5 each-2 Nos, Total = 4 Nos Praga-make	04 No
67	Double Ended cylindrical Plug Guage, xxx1/2",3/4", 1" = 3 Nos Praga-make	03 No
68	Double Ended Female Go NOGO Guages Size 1/2",5/8" 3/4", 1" = 4 Nos	04 No
69	Morse Taper Ring –Gauges, Praga make Mt-0 MT-1 MT-2 MT-3 = 4 Nos.	04 No
70	Morse Taper Ring –Gauges, Mt-4 MT-5 = 2 Nos. Praga make	02 No
71	MATRIX Snap- Gauges, (Adjustable) Gauge, 1/2", 3.4" C. G. Tools C. Ltd U.K. Make	01 No
72	MATRIX Snap- Gauges, (Adjustable Perin Calliper Gauges) 3/2", 1" C. G. Tools C. Ltd U.K. Make	01 No
73	Snap Gauge Adjustable, 0 – 6 mm 0" -1/4", Make C. E Sweden 850 c	01 No
74	Snap Gauge Adjustable, 850 c, 6-12mm ¼" -1/2", Make C. E Sweden	01 No
75	Telescopic Gauges Set 4 Nos., No 3323 ½" to 6", Make Helios Germany	01 No
76	Vernier Hight- Gauge 0-21" & 0.55mm	01 No
77	Vernier Depth Gauge, No448, 0-6" & 0.12mm, Make The L.S.Starrelt U.S.A	01 No
78	Micrometer Depth Gauge, No 04924, Mitutoya Japan make	01 No

BIRLA VISHVAKARMA MAHAVIDYALAYA
V. V. NAGAR
PIN-388 120
DIST. ANAND.

79	Radius Gauge No.178 B, The L.S.Starrett Co U.S.A	01 No
80	Center Gauge, No 650 U.S.A Make	01 No
81	Compound Sine table with electro Magnetic chuck 2180/772 CZEN make CSN 246750	01 No
82	MONO CHROMATIC Cheklite Instrument model SML-85 Hifin Product Pvt LTD Bombay	01 No
83	Precesion spirit level square Type with one side Flat and three side vee Reading 0.02mm Range 200mm	01 No
84	"CZECH" Somet make PROFLE PROJECTOR model Profil-2 with equipment 1) Micrometer Table (Compound Slide) 2) 280 mm Glass Scale (1mm graduation) 3) work centre cradle 4) Optical filter (Yellow with green) 5) Brush for cleaning the optical system 6) objective for 10x magnification(Profesa) 20x(Magnor) 50x(Opener) 120x (Magnor) 7) Profile Projector head 8) Maine cord 9) Bottom illuminator 10)35 w- 12 v spare blue 11) 5W 6 %	01 Set
85	Vernier micrometer, 0.25mm, L.C 0.001mm	01 No
86	Dial Type Vernier Caliper, 150 mm, L.C. 0.05mm Mitutoyo Japan make	01 No
87	Magnetic stand, Code No 7010, USPAT 4251791 Mitutoyo Japan make	01 No
89	Magnetic stand, Code No 70106, USPAT 4251791 Mitutoyo Japan make	01 No
90	Dial Gauge, Reading 0.01mm, No 2046 E Mitutoyo Japan Make	01 No
91	Dial Gauge, Reading 0.01mm, No 2046 E Mitutoyo Japan Make	01 No
92	Stop watch (Decimal type), GEM T Jewels Sack Prof, Snap back type	01 No
93	Digital Surface Roughness tester Set No 178- 935 E	01 No
94	Slip Gauge set of 125 Pcs	01 Set
95	Disc Micrometer 0.25mm Flange type Mitutoyo Japan Make	
96	Electronic Digimatric Height Gauge, Code No 570 -113, HDS 12"/300 mm Mitutoyo japan make,	01 No

BIRLA VISHVAKARMA MAHAVIDYALAYA
V. V. NAGAR
PIN-388 120
DIST. ANAND.

97	Out Side Micrometer, Size 0-25mm, Mitutoyo Japan Make	01 No
98	Slip Gauge accessories, Set 7 14 pcs = 1 set	01 Set
99	1) Supreme make floating Carriage diameter Measuring Machine Range 0-100 mm	01 Pic
	2) Plain Master cylinder, 3mm – 100 mm, Set of 22 Nos	01 Set
	3)Thread Measuring wires, 3 wire set (16 Nos), From 0.17mm to 3.20mm	01 Set
	4)Thread Measuring Prisms, Designation 'B' 1.5mm to 2.25mm (2 Nos)	01 Set
100	Vernier Calipers, 150 * 0.02 mm, 6 * 1/1000 in = 2 Nos Made in China	02 No
101	Aluminium Sprit Leval 12"	01 No
102	Iron Sprit Level	01 No
103	Sine Centre with Auxiliary Base	01 No
104	Cast Iron Parallel edge	01 No
105	Granite Surface Edge with M.S. Stand	01 No
106	Hardened and Ground steel, V. Block with clomps	01 No
107	Granite Square Grade	01 No
108	Granite base bench Comparator	01 No
109	Master Cylinder	01 No
110	C. I. Box Angle plate	01 No
111	Vertical – Cam – Horizontal bench Centre	01 No
112	Floating Carriage Micrometer	01 No
113	Bore Gauge with Dial Gauge Size : Rang 10-18 5 mm Depth – 100mm Stroke : 0.5mm	01 Set
114	Screw Thred Micrometer, Rang = 0.25mm	01 No
115	Gear Tooth Micrometer, Range – 0.25mm Accuracy -4mm	01 No
116	Telescopic Gauge Set, Total Range 8-150mm with 6 gage set	01 No
117	Inside Micrometer, Range : 25-50mm, Travel of Micrometer head : 7mm With 2 rods with morking	01 No
118	Vernier Height Gauge, Range : 0.300mm Height – 525mm Mass : 3.1kg Adjustment : 15mm	01 No
119	Vernier Dept Gauge, Range : 0.150mm	01 No
120	Metric Screw Pitch Gauge, Range : 0.4-7 mm with 21 Composition of leaves from 0.4 to 7 mm	01 No
121	Outside Micrometer – I, Range : 25-50mm Accuracy – 2mm	01 No
122	Out Side Micrometer – II, Range : 25-50mm Accuracy – 2mm	01 No
123	Whitworth Screw pitch Gauges, Range 4-60 TPI with 28 composition Of leaves from 4 to 60 TPI Thread	01 No