




3.3.1	Institution has created an ecosystem for innovations, Indian Knowledge System (IKS) including awareness about IPR, establishment of IPR cell, Incubation centre and other initiatives for the creation and transfer of technology/knowledge and the outcomes of the same are evident
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### Details of Key Instruments

Building	Room/ Lab No.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Main Building, B Wing, Ground Floor	33	Total Station	Total Survey Work carried out digitally	





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**Criterion- 3**

**R, I & E**

**KI 3.3**

**M 3.3.1**

Building	Room/ Lab No.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Main Building, B Wing, Ground Floor	33	Dumpy Level	To carry out different RL	
Main Building, B Wing, Ground Floor	35	Direct shear apparatus	Evaluates soil shear strength under controlled conditions.	





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<b>Building</b>	<b>Room/ Lab No.</b>	<b>Instrument Name</b>	<b>Instrument Purpose</b>	<b>Geo Tagged Photographs</b>
Main Building, B Wing, Ground Floor	35	Humidity Chamber	Maintains controlled temperature and humidity conditions for material testing.	
Main Building, B Wing, Ground Floor	35	Hot Air Oven	Used for drying, sterilization, and testing material behavior at elevated temperatures.	

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<b>Building</b>	<b>Room/ Lab No.</b>	<b>Instrument Name</b>	<b>Instrument Purpose</b>	<b>Geo Tagged Photographs</b>
Main Building, B Wing, Ground Floor	35	CBR TEST APPARATUS	Measures the California Bearing Ratio of soil for subgrade strength evaluation	
Main Building, B Wing, Ground Floor	35	Unconfined Compression Test Apparatus	Determines the unconfined compressive strength of soil or rock.	



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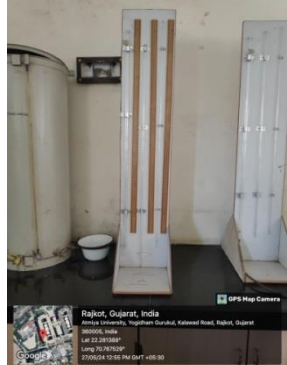
<b>Building</b>	<b>Room/ Lab No.</b>	<b>Instrument Name</b>	<b>Instrument Purpose</b>	<b>Geo Tagged Photographs</b>
Main Building, B Wing, Ground Floor	35	Direct Shear Test Apparatus.	Evaluates soil shear strength under controlled conditions.	
Main Building, B Wing, Ground Floor	35	CBR (California Bearing Ratio) test apparatus	To determine the soil's strength and bearing capacity for design of pavements and road subgrades.	

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<b>Building</b>	<b>Room/ Lab No.</b>	<b>Instrument Name</b>	<b>Instrument Purpose</b>	<b>Geo Tagged Photographs</b>
Main Building, B Wing, Ground Floor	35	Direct Shear test apparatus	To determine the shear strength parameters of soil.	
Main Building, B Wing, Ground Floor	35	Soil Permeability Test Apparatus	To measure the rate at which water can flow through soil.	

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Building	Room/ Lab No.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Main Building, B Wing, Ground Floor	35	Soil Permeability Test Apparatus	To measure the rate at which water can flow through soil.	
Main Building, B Wing, Ground Floor	35	Constant Temperature Water Bath	To maintain a consistent temperature for accurate and reliable experimental results.	
Main Building, B Wing, Ground Floor 	37	Weighing balance	To carry out weight of different material	







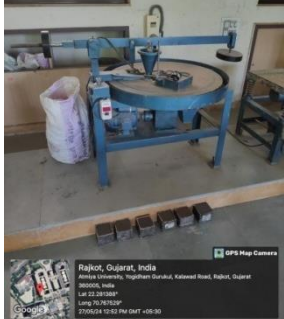
<b>Building</b>	<b>Room/ Lab No.</b>	<b>Instrument Name</b>	<b>Instrument Purpose</b>	<b>Geo Tagged Photographs</b>
Main Building, B Wing, Ground Floor	37	Water bath for Soundness	Soundness mould bath	
Main Building, B Wing, Ground Floor	37	Fine Sieve Shaker	Help promote particle movement through a stack of sieves, facilitating accurate particle separation	
Main Building, B Wing, Ground Floor	37	Impact Test	Calculating the amount of energy absorbed to determine the impact resistance or toughness of materials by during fracture.	

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<b>Building</b>	<b>Room/ Lab No.</b>	<b>Instrument Name</b>	<b>Instrument Purpose</b>	<b>Geo Tagged Photographs</b>
Main Building, B Wing, Ground Floor	37	Cement mould vibrator	help eliminate air voids by evenly compacting the cement	
Main Building, B Wing, Ground Floor	37	Cube Vibrator	help eliminate air voids by evenly compacting the concrete	
Main Building, B Wing, Ground Floor	37	Tile Abrasion test	determining the resistance to wear for cement concrete flooring tiles	

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<b>Building</b>	<b>Room/ Lab No.</b>	<b>Instrument Name</b>	<b>Instrument Purpose</b>	<b>Geo Tagged Photographs</b>
Main Building, B Wing, Ground Floor	37	losangeles abrasion test	To test the hardness property of aggregates.	
Main Building, B Wing, Ground Floor	37	Compressive Testing Machine	To determine the compressive strength of Concrete cube	
Main Building, B Wing, Ground Floor	37	Universal Testing machine	To determine various testing on different material,like Tensile testing, compressive testing etc...	



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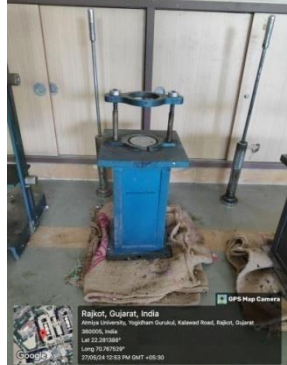


Building	Room/ Lab No.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Main Building, B Wing, Ground Floor	37	Concrete Miller	To mix the wet and dry ingredients of concrete	
Main Building, B Wing, Ground Floor	38	IZOD and CHARPY Test	To advance the understanding of why materials fail prematurely.	









Building	Room/ Lab No.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Main Building, B Wing, Ground Floor	38	CBR Testing Machine	Determines the bearing capacity of soil for road and pavement design.	
Main Building, B Wing, Ground Floor	38	Marshall Stability Testing Apparatus	Tests the stability and flow properties of bituminous mixtures	

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<b>Building</b>	<b>Room/ Lab No.</b>	<b>Instrument Name</b>	<b>Instrument Purpose</b>	<b>Geo Tagged Photographs</b>
Main Building, B Wing, Ground Floor	38	CBR Testing Machine	Determines the bearing capacity of soil for road and pavement design.	
Main Building, B Wing, Ground Floor	38	Digital Weighing Machine	Measures the precise weight of samples or materials.	

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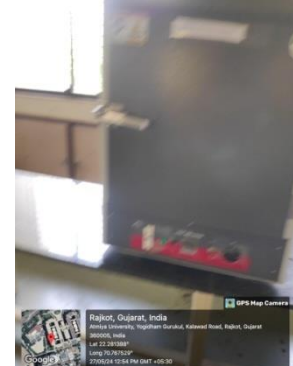
Building	Room/ Lab No.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Main Building, B Wing, Ground Floor	38	Bump Integrator	Assesses the surface roughness and quality of road pavements.	
Main Building, B Wing, Ground Floor	38	Humidity Chamber	Maintains controlled temperature and humidity conditions for material testing.	

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<b>Building</b>	<b>Room/ Lab No.</b>	<b>Instrument Name</b>	<b>Instrument Purpose</b>	<b>Geo Tagged Photographs</b>
Main Building, B Wing, Ground Floor	38	Standard Cone Penetrometer	Measures the consistency and compaction of soil.	
Main Building, B Wing, Ground Floor	38	Hot Air Oven	Used for drying, sterilization, and testing material behaviour at elevated temperatures.	

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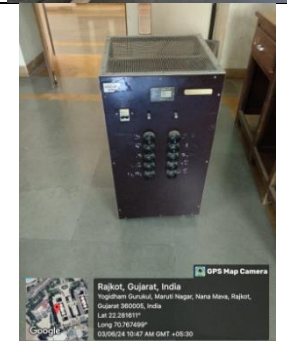
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<b>Building</b>	<b>Room/ Lab No.</b>	<b>Instrument Name</b>	<b>Instrument Purpose</b>	<b>Geo Tagged Photographs</b>
Main Building, B Wing, Ground Floor	38	Ductility Testing Apparatus	Determines the ductility of bituminous materials by measuring their elongation	
Main Building, B Wing, Ground Floor	39	Resistor Bank	As a load bank	

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Building	Room/ Lab No.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Main Building, B Wing, Ground Floor	39	Chock Coil	As a Inductive load	
Main Building, B Wing, Ground Floor	39	Single phase auto transformer	To vary voltage	
Main Building, B Wing, Ground Floor	39	Step Down Transformer	To step down voltage	

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Building	Room/ Lab No.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Main Building, B Wing, Ground Floor	39	Small kit cupboard	Electronics Kit	
Main Building, B Wing, Ground Floor	41	3 Phase SCR Control Converter	Perform half and full wave control converter	
Main Building, B Wing, Ground Floor	41	IC	Different Type of ICs model for Study	
Main Building, B Wing, Ground Floor	41	Different types of Transformer	Different types of Transformer for study	

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Building	Room/ Lab No.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Main Building, B Wing, Ground Floor	41	Analog Trainer Kit	To perform different analog practicles	
Main Building, B Wing, Ground Floor	41	Linear&Digital IC Trainer	For Practicle Purpose	
Main Building, B Wing, Ground Floor	42	HV Instruments	High voltage practicle	

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Building	Room/ Lab No.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Main Building, B Wing, Ground Floor	42	HV Instruments	High voltage practice	
Main Building, B Wing, Ground Floor	42	Horn gap Apparatus	Oil dielectric Strength chacking	
Main Building, B Wing, Ground Floor	42	HV Instruments	High voltage practical	

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Building	Room/ Lab No.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Main Building, B Wing, Ground Floor	44	Transmission line simulation panel	Transmission line fault detector	
Main Building, B Wing, Ground Floor	44	Generator protection simulation panel	Generator fault detector	

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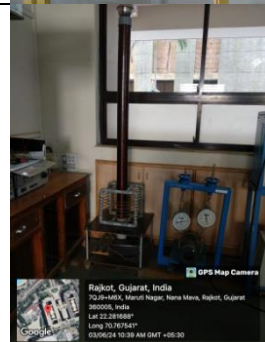
Building	Room/ Lab No.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Main Building, B Wing, Ground Floor	44	Transformer protection panel	Transformer protection panel for study purpose	
Main Building, B Wing, Ground Floor	44	Forward Reverse DOL Starter	Forward Reverse DOL Starter for motor	

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Building	Room/ Lab No.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Main Building, B Wing, Ground Floor	44	Automatic star delta starter	Automatic star delta starter for motor	
Main Building, B Wing, Ground Floor	44	Tesla Coil	Tesla Coil for HV Testing	





Building	Room/ Lab No.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Main Building, B Wing, Ground Floor	44	Motor Load	To identify motor load	
Main Building, B Wing, Ground Floor	44	Motor Protection panel	To protect motor from different fault	

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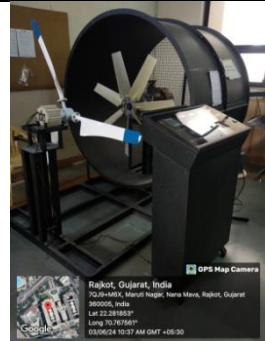


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**Criterion- 3**

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Building	Room/ Lab No.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Main Building, B Wing, Ground Floor	45	Wind mill	Wind mill for study	
Main Building, B Wing, Ground Floor	45	Bus bar simulation panel	Bus bar simulation panel	
Main Building, B Wing, Ground Floor	45	Solar kit	Solar kit for study	



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Building	Room/ Lab No.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Main Building, B Wing, Ground Floor	46	Motor Generator coupling	Motor Generator coupling	
Main Building, B Wing, Ground Floor	46	DC Shunt Motor set	DC Shunt Motor set for practical purpose	
Main Building, B Wing, Ground Floor	46	DC Shunt motor coupled with non-salient pole alternator	DC Shunt motor coupled with non-salient pole alternator	

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Building	Room/ Lab No.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Main Building, B Wing, Ground Floor	46	DC Shunt motor coupled with salient pole alternator	DC Shunt motor coupled with salient pole alternator	
Main Building, B Wing, Ground Floor	46	BLDC Training kit	BLDC Training kit for EV Practicle	

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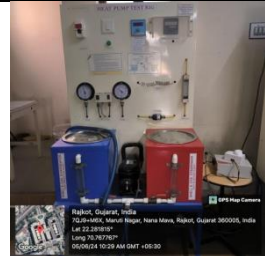


Building	Room/ Lab No.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Main Building, B Wing, Ground Floor	46	PMSM Training kit	PMSM Training kit for EV Practicle	
Main Building, B Wing, Ground Floor	53	Absorption Refrigeration System	Facilitate cooling through the absorption and desorption processes using a heat-driven cycle.	
Main Building, B Wing, Ground Floor	53	Air Conditioning Test Rig	Simulate and evaluate the performance of air conditioning systems under controlled conditions	

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Building	Room/ Lab No.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Main Building, B Wing, Ground Floor	53	Heat Pump Test Rig	Evaluate and analyze the performance and efficiency of heat pump systems under controlled conditions	
Main Building, B Wing, Ground Floor	53	Ice Plant Test Rig	Simulate and assess the performance of ice-making systems for efficiency and operational analysis	
Main Building, B Wing, Ground Floor	53	Refrigeration Test Rig	Evaluate and analyze the performance and efficiency of refrigeration systems under controlled conditions.	

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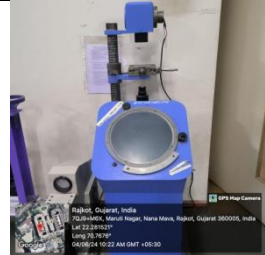

<b>Building</b>	<b>Room/ Lab No.</b>	<b>Instrument Name</b>	<b>Instrument Purpose</b>	<b>Geo Tagged Photographs</b>
Main Building, B Wing, Ground Floor	53	Water Cooler Test Rig	Assess and analyze the performance and efficiency of water cooling systems using refrigeration technology under controlled conditions.	
Main Building, B Wing, Ground Floor	56	Single Disc Polishing Machine	Achieve a smooth and reflective surface finish on materials through abrasive polishing.	
Main Building, B Wing, Ground Floor	56	Metallurgical Microscope	Examine and analyze the microstructure of metallic materials with high magnification and clarity.	

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<b>Building</b>	<b>Room/ Lab No.</b>	<b>Instrument Name</b>	<b>Instrument Purpose</b>	<b>Geo Tagged Photographs</b>
Main Building, B Wing, Ground Floor	56	Muffle Furnace	heat materials to high temperatures in a controlled atmosphere, typically for processes like annealing, sintering, or heat treatment.	
Main Building, B Wing, Ground Floor	56	Isomat Profile Projector	Accurately measure and inspect the dimensions and features of objects using optical magnification and profile comparison.	
Main Building, B Wing, Ground Floor	56	Hardness Testing Machine	Determine the resistance of a material to indentation or penetration, providing information about its mechanical properties such as hardness.	


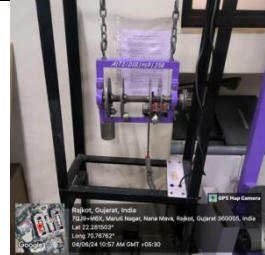

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Building	Room/ Lab No.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Main Building, B Wing, Ground Floor	57	Universal Vibration Apparatus	Simulate and analyze mechanical vibrations of various structures or components for testing and analysis.	
Main Building, B Wing, Ground Floor	57	Static & Dynamic Balancing Apparatus	Measure and correct imbalances in rotating machinery to ensure smooth and efficient operation.	
Main Building, B Wing, Ground Floor	57	Epicyclic gear train & torque apparatus	Demonstrate and study the principles of gear trains, torque transmission, and rotational motion in mechanical systems.	




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Building	Room/ Lab No.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Main Building, B Wing, Ground Floor	58	Apparatus of critical radius of heat material	Determine the minimum radius at which heat can be conducted or transferred efficiently in a material.	
Main Building, B Wing, Ground Floor	58	Apparatus of emissivity measurement	Quantify the emissivity of a material, which indicates its ability to emit thermal radiation relative to an ideal black body.	
Main Building, B Wing, Ground Floor	58	Apparatus of heat in natural convection	Study and demonstrate heat transfer phenomena through natural convection in fluids, without the aid of external forces like pumps or fans.	

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Building	Room/ Lab No.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Main Building, B Wing, Ground Floor	58	Apparatus of heat transfer forced convection	Investigate and analyze heat transfer phenomena when a fluid is forced to flow over a surface, enhancing heat transfer rates compared to natural convection.	
Main Building, B Wing, Ground Floor	58	Apparatus of heat transfer from pin fin	Study and analyze heat dissipation and transfer characteristics of pin fins, commonly used in heat exchangers and cooling systems.	
Main Building, B Wing, Ground Floor	58	Apparatus of heat transfer through composite wall	Investigate and measure the thermal conductivity and heat transfer properties of different materials layered together.	

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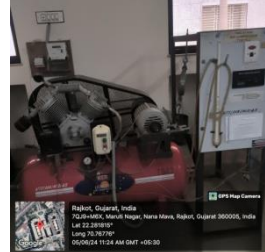
Building	Room/ Lab No.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Main Building, B Wing, Ground Floor	58	Apparatus of heat transfer through Pipe	Analyze and measure the thermal conductivity and heat transfer rates in fluid flow through pipes.	
Main Building, B Wing, Ground Floor	58	Apparatus of stephenboltzman	Verify the Stefan-Boltzmann law by measuring the radiant energy emitted by a black body as a function of its temperature.	
Main Building, B Wing, Ground Floor	58	Apparatus of thermal cond. by guarded hot plate (solid)	Measure the thermal conductivity of insulating materials accurately by maintaining a steady-state temperature gradient across the sample.	

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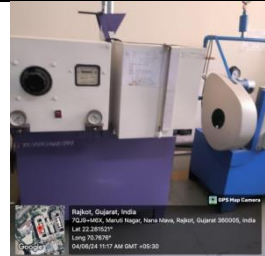
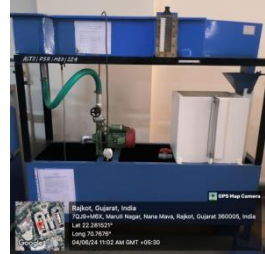
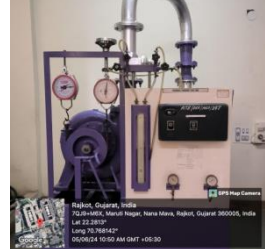
Building	Room/ Lab No.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Main Building, B Wing, Ground Floor	58	Apparatus of thermal cond.of insulating powder	Determine the thermal conductivity of insulating powder materials by analyzing heat transfer through the powder sample.	
Main Building, B Wing, Ground Floor	58	Apparatus of thermal cond.of metal bar	Measure and analyze the thermal conductivity of a metal bar by observing heat transfer along its length.	
Main Building, B Wing, Ground Floor	58	Air compressor test rig (double stage reciprocating)	Evaluate the performance, efficiency, and operational characteristics of air compressors under controlled conditions.	

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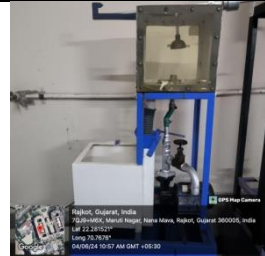


<b>Building</b>	<b>Room/ Lab No.</b>	<b>Instrument Name</b>	<b>Instrument Purpose</b>	<b>Geo Tagged Photographs</b>
Main Building, B Wing, Ground Floor	32	Centrifugal pump test rig	Analyze and evaluate the performance characteristics and efficiency of centrifugal pumps under various operating conditions.	
Main Building, B Wing, Ground Floor	32	Flow over notches apparatus	Study and measure the flow rate of liquids over different types of notches, such as V-notches and rectangular notches, for hydraulic analysis.	
Main Building, B Wing, Ground Floor	32	Francis Turbine Test Rig	Evaluate the performance and efficiency of a Francis turbine by measuring parameters such as flow rate, pressure, and power output under various operating conditions.	

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<b>Building</b>	<b>Room/ Lab No.</b>	<b>Instrument Name</b>	<b>Instrument Purpose</b>	<b>Geo Tagged Photographs</b>
Main Building, B Wing, Ground Floor	32	Impact of Jet Apparatus	Study the force exerted by a jet of fluid on different surfaces and to analyze the principles of momentum transfer in fluid mechanics.	
Main Building, B Wing, Ground Floor	32	Kaplan Turbine Test Rig	Assess and analyze the performance and efficiency of a Kaplan turbine by measuring parameters like flow rate, pressure, and power output under varying conditions.	
Main Building, B Wing, Ground Floor	32	Losses in Pipe Fittings	Quantify and analyze the pressure losses incurred due to fittings like bends, elbows, tees, and valves in a piping system.	

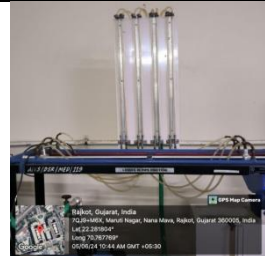


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Building	Room/ Lab No.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Main Building, B Wing, Ground Floor	32	Losses in Pipe Friction	Measure and analyze the pressure losses due to friction in a pipe flow, aiding in the study of fluid dynamics and energy losses in piping systems.	
Main Building, B Wing, Ground Floor	32	Nozzle Meter Apparatus	Measure the flow rate of liquids by utilizing the pressure difference across a converging-diverging nozzle.	
Main Building, B Wing, Ground Floor	32	Orifice & Mouth Piece Apparatus	Measure fluid flow rates using different flow measurement devices, aiding in fluid mechanics studies and practical applications.	




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Building	Room/ Lab No.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Main Building, B Wing, Ground Floor	32	Pelton wheel turbine test rig	Assess and analyze the performance and efficiency of a Pelton turbine by measuring parameters like flow rate, pressure, and power output under varying conditions.	
Main Building, B Wing, Ground Floor	32	Piezo Meter Apparatus	Measure the pressure at a specific point in a fluid flow, aiding in the analysis of fluid dynamics and hydraulic systems.	
Main Building, B Wing, Ground Floor	32	Pitot Tube Test Rig	Measure the velocity of fluid flow in a pipe or duct by utilizing the principle of total pressure measurement.	

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Building	Room/ Lab No.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Main Building, B Wing, Ground Floor	32	Pressure Measurement Apparatus	Quantify and monitor the pressure within a system or fluid medium for engineering, scientific, or industrial purposes.	
Main Building, B Wing, Ground Floor	32	Reciprocating Pump Test Rig	Evaluate the performance, efficiency, and operational characteristics of reciprocating pumps under controlled conditions.	
Main Building, B Wing, Ground Floor	32	Redwood & Saybolt Viscometer Apparatus	Measure the viscosity of liquids, particularly petroleum products, to assess their flow properties and quality.	

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**Rajkot**





Building	Room/ Lab No.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Main Building, B Wing, Ground Floor	32	Reynold's Apparatus	Visualize and study fluid flow patterns, particularly laminar and turbulent flow, by varying parameters like velocity, viscosity, and pipe diameter.	
Main Building, B Wing, Ground Floor	32	Verification of Bernoulli's Theorem Apparatus	Demonstrate and validate the principles of Bernoulli's equation in fluid flow, including the relationship between pressure, velocity, and elevation in a streamline flow.	
Main Building, B Wing, Third Floor	326	WEIGHING BALANCE	For the correct weight of samples, reagents, media etc.	

Atmiya University, Rajkot-Gujarat-India

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**Rajkot**





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**NAAC – Cycle – 1  
AISHE: U-0967**

**Criterion- 3**

**R, I & E**

**KI 3.3**

**M 3.3.1**

Building	Room/ Lab No.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Main Building, B Wing, Third Floor	326	UV SPEC	For quantifying nucleic acid and protein content in biological samples and for quality control in drugs and food industries.	
Main Building, B Wing, Third Floor	326	WATER BATH	For incubation of biological samples in water at a constant temperature over a long period of time.	



Atmiya University, Rajkot-Gujarat-India

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**Rajkot**





Building	Room/ Lab No.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Main Building, B Wing, Third Floor	326	INCUBATOR	For the growth and maintenance of microbiological cultures.	
Main Building, B Wing, Third Floor	326	UV SPEC	For quantifying nucleic acid and protein content in biological samples.	

Atmiya University, Rajkot-Gujarat-India

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**Rajkot**





Building	Room/ Lab No.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Main Building, B Wing, Third Floor	326	HOT AIR OVEN	For the sterilization process and checking temperature stability of samples.	
Main Building, B Wing, Third Floor	326	pH BALANCE	For checking and maintaining the pH of various solvents, solution and reagents	

Atmiya University, Rajkot-Gujarat-India

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**Rajkot**





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**NAAC – Cycle – 1  
AISHE: U-0967**

**Criterion- 3**

**R, I & E**

**KI 3.3**

**M 3.3.1**

Building	Room/ Lab No.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Main Building, B Wing, Third Floor	415	Microwave		
Main Building, B Wing, Third Floor	340	Ultrasonic Interferometer	To measure wavelength of ultrasonic sound	
Main Building, B Wing, Third Floor	340	Fibre optic trainer kit	To measure Numerical Aperture of optical fibre	




Atmiya University, Rajkot-Gujarat-India

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**Rajkot**







Building	Room/ Lab No.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Main Building, B Wing, Third Floor	340	Band gap apparatus	To measure the energy gap of semiconductor	
Main Building, B Wing, Third Floor	340	Resonance tube apparatus	To measure the velocity of sound in air	
Main Building, B Wing, Third Floor 	340	Zener diode apparatus	To measure the IV characteristics of Zener diode	








Building	Room/ Lab No.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Main Building, B Wing, Third Floor	340	Solar cell apparatus	To measure the IV characteristics of Solar cell	
Main Building, B Wing, Third Floor	340	LED apparatus	To measure the IV characteristics of LED	
Main Building, A Wing, Fourth floor	423 (1)	Potentiometer	Measures electromotive force (EMF) or potential difference of a circuit.	

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**Rajkot**








<b>Building</b>	<b>Room/ Lab No.</b>	<b>Instrument Name</b>	<b>Instrument Purpose</b>	<b>Geo Tagged Photographs</b>
Main Building, A Wing, Fourth floor	423 (1)	Digital Nephlo Turbidity meter- 132	Measures turbidity or cloudiness of liquids, indicating particle concentration.	
Main Building, A Wing, Fourth floor	423 (1)	Flame Photometer 128	Measures concentration of certain metal ions in solutions using flame emission.	
Main Building, A Wing, Fourth floor	423 (1)	Photofuloro meter 152	Detects and measures fluorescence intensity of compounds for analysis.	

Atmiya University, Rajkot-Gujarat-India

**Registrar**  
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**Rajkot**








<b>Building</b>	<b>Room/ Lab No.</b>	<b>Instrument Name</b>	<b>Instrument Purpose</b>	<b>Geo Tagged Photographs</b>
Main Building, A Wing, Fourth floor	423 (1)	Refractometer	Measures refractive index to determine concentration or purity of substances.	
Main Building, A Wing, Fourth floor	423 (1)	Conductivity meter	Measures electrical conductivity of a solution to assess ionic content.	
Main Building, A Wing, Fourth floor	423 (1)	AutoColori meter VsI 401	Determines concentration of colored compounds in a solution using absorbance.	

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**Rajkot**








<b>Building</b>	<b>Room/ Lab No.</b>	<b>Instrument Name</b>	<b>Instrument Purpose</b>	<b>Geo Tagged Photographs</b>
Main Building, A Wing, Fourth floor	423 (1)	AutoColori meter VsI 401	Measures optical rotation to identify chiral substances or concentration of optically active compounds.	
Main Building, A Wing, Fourth floor	423 (1)	Polarimeter	Determines water content in samples using Karl Fischer titration.	
Main Building, A Wing, Fourth floor	423 (1)	Auto Karl Fischer Titrator 349	Used for electrophoresis gel documentation and analysis in molecular biology.	

Atmiya University, Rajkot-Gujarat-India

**Registrar**  
**Atmiya University**  
**Rajkot**





<b>Building</b>	<b>Room/ Lab No.</b>	<b>Instrument Name</b>	<b>Instrument Purpose</b>	<b>Geo Tagged Photographs</b>
Main Building, A Wing, Fourth floor	423 (1)	Doc gel Apparatus	High-Performance Liquid Chromatography for separating, identifying, and quantifying compounds.	
Main Building, A Wing, Fourth floor	423 (1)	HPLC	Measures absorbance/transmittance of UV and visible light for compound analysis.	
Main Building, A Wing, Fourth floor	423 (1)	UV – visible Spectrophotometer	Determines pH of solutions, indicating acidity or alkalinity.	




Atmiya University, Rajkot-Gujarat-India

**Registrar**  
**Atmiya University**  
**Rajkot**







<b>Building</b>	<b>Room/ Lab No.</b>	<b>Instrument Name</b>	<b>Instrument Purpose</b>	<b>Geo Tagged Photographs</b>
Main Building, A Wing, Fourth floor	423 (1)	Digital PH Meter	Provides high-resolution magnification for biological or material specimen analysis.	
Main Building, A Wing, Fourth floor	423 (1)	Digital Trinocular Microscope	Dual eyepiece microscope for detailed examination of slides or samples.	
Main Building, A Wing, Fourth floor	423 (1)	Digital Binocular Microscope	Measures absorbance of specific wavelengths in colored solutions for analysis.	




Atmiya University, Rajkot-Gujarat-India

**Registrar**  
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**Rajkot**










Building	Room/ Lab No.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Main Building, A Wing, Fourth floor	423 (1)	Digital Colorimeter	Cleans lab equipment or disperses particles using high-frequency sound waves.	
Main Building, A Wing, Fourth floor	423 (1)	Digital UltraSonicclener ( Sonicator)	Creates vacuum for filtration, drying, or other lab processes.	
Main Building, A Wing, Fourth floor	423 (1)	Digital UltraSonicclener ( Sonicator)	Measures viscosity of fluids to determine flow properties.	

Atmiya University, Rajkot-Gujarat-India

**Registrar**  
**Atmiya University**  
**Rajkot**








<b>Building</b>	<b>Room/ Lab No.</b>	<b>Instrument Name</b>	<b>Instrument Purpose</b>	<b>Geo Tagged Photographs</b>
Main Building, A Wing, Fourth floor	423 (1)	Digital UltraSonicclener (Sonicator)	Accurately measures conductivity, indicating ionic concentration in solutions.	
Main Building, A Wing, Fourth floor	423 (1)	Vacuum Pump (Rocker 400)	Measures mass of samples with high precision.	
Main Building, A Wing, Fourth floor	423 (1)	Brookfield Viscometer	Measures absorbance/transmittance across UV-visible range for chemical analysis.	

Atmiya University, Rajkot-Gujarat-India

**Registrar**  
**Atmiya University**  
**Rajkot**








<b>Building</b>	<b>Room/ Lab No.</b>	<b>Instrument Name</b>	<b>Instrument Purpose</b>	<b>Geo Tagged Photographs</b>
Main Building, A Wing, Fourth floor	423 (1)	Digital PH meter	Extracts soluble compounds from solid samples using solvent cycles.	
Main Building, A Wing, Fourth floor	423 (1)	Conductivity meter (con 700)	Grinds solid materials into fine powder for analysis.	
Main Building, A Wing, Fourth floor	423 (1)	Digital PH meter	Measures light absorbance in the visible spectrum for quantitative analysis.	

Atmiya University, Rajkot-Gujarat-India

**Registrar**  
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**Rajkot**








<b>Building</b>	<b>Room/ Lab No.</b>	<b>Instrument Name</b>	<b>Instrument Purpose</b>	<b>Geo Tagged Photographs</b>
Main Building, A Wing, Fourth floor	423 (1)	Electronic Balance Sensitivity -0.01mg	Separates DNA, RNA, or proteins based on size and charge in a gel.	
Main Building, A Wing, Fourth floor	423 (1)	Digital PH meter	Produces high vacuum for sensitive lab applications or instruments.	
Main Building, A Wing, Fourth floor	423 (1)	Conductivity meter 304	Dries heat-sensitive samples under vacuum to avoid degradation.	

Atmiya University, Rajkot-Gujarat-India

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**Rajkot**








<b>Building</b>	<b>Room/ Lab No.</b>	<b>Instrument Name</b>	<b>Instrument Purpose</b>	<b>Geo Tagged Photographs</b>
Main Building, A Wing, Fourth floor	423 (1)	Digital Spectrophoto meter VN 600	Cuts thin slices of samples for microscopic examination.	
Main Building, A Wing, Fourth floor	423 (3)	Soxhlet Extraction Apparatus	Measures moisture content in samples through weight loss on drying.	
Main Building, A Wing, Fourth floor	423 (1)	Willy mill	Spins samples at high speed for separation of components.	

Atmiya University, Rajkot-Gujarat-India

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**Rajkot**





<b>Building</b>	<b>Room/ Lab No.</b>	<b>Instrument Name</b>	<b>Instrument Purpose</b>	<b>Geo Tagged Photographs</b>
Main Building, A Wing, Fourth floor	423 (1)	Visible Spectrophotometer	Burns and disposes of waste materials safely at high temperatures.	
Main Building, A Wing, Fourth floor	423 (1)	Electrophoresis	Provides uniform mixing of samples by rotating or shaking.	
Main Building, A Wing, Fourth floor	423 (1)	High Vacuum Pump	Sterilizes equipment and media using high-pressure steam.	




Atmiya University, Rajkot-Gujarat-India

**Registrar**  
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**Rajkot**







<b>Building</b>	<b>Room/ Lab No.</b>	<b>Instrument Name</b>	<b>Instrument Purpose</b>	<b>Geo Tagged Photographs</b>
Main Building, A Wing, Fourth floor	423 (1)	Vacuum Oven	Measures bulk density of powders or granules for quality control.	
Main Building, A Wing, Fourth floor	423 (1)	Vacuum Pump (orchid)	Tests drug dissolution in simulated gastric or intestinal fluids.	
Main Building, A Wing, Fourth floor	423 (1)	Microtome	Cleans ampoules to ensure sterility before filling.	




Atmiya University, Rajkot-Gujarat-India

**Registrar**  
**Atmiya University**  
**Rajkot**










<b>Building</b>	<b>Room/ Lab No.</b>	<b>Instrument Name</b>	<b>Instrument Purpose</b>	<b>Geo Tagged Photographs</b>
Main Building, A Wing, Fourth floor	423 (1)	Moisture balance	Tests mechanical strength of tablets by measuring their resistance to abrasion.	
Main Building, A Wing, Fourth floor	423 (1)	Micro centrifuge	Fills and seals ampoules for liquid pharmaceutical formulations.	
Main Building, A Wing, Fourth floor	423 (1)	Incenerator	Heats samples in labs for reactions or melting.	

Atmiya University, Rajkot-Gujarat-India

**Registrar**  
**Atmiya University**  
**Rajkot**








<b>Building</b>	<b>Room/ Lab No.</b>	<b>Instrument Name</b>	<b>Instrument Purpose</b>	<b>Geo Tagged Photographs</b>
Main Building, A Wing, Fourth floor	423 (1)	Rotary Shaker	Fills empty capsules with powders, granules, or liquids.	
Main Building, A Wing, Fourth floor	423 (1)	Autoclve	Coats tablets with protective or therapeutic layers.	
Main Building, A Wing, Fourth floor	423 (1)	Digital Bulk Density Appratus	Provides sterile environment for microbial or pharmaceutical processes.	

Atmiya University, Rajkot-Gujarat-India

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**Rajkot**





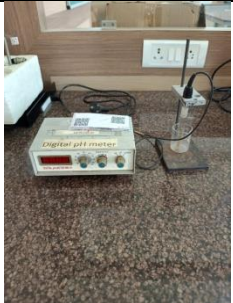


<b>Building</b>	<b>Room/ Lab No.</b>	<b>Instrument Name</b>	<b>Instrument Purpose</b>	<b>Geo Tagged Photographs</b>
Main Building, A Wing, Fourth floor	423 (1)	3 in 1 Disodisi tester	Determines the melting point of solid compounds for identification.	
Main Building, A Wing, Fourth floor	423 (1)	Ampoule Washing machine	Mixes solid and liquid ingredients uniformly.	
Main Building, A Wing, Fourth floor	423 (1)	Friability tester	Tests time required for tablets to disintegrate in a fluid.	

Atmiya University, Rajkot-Gujarat-India

**Registrar**  
**Atmiya University**  
**Rajkot**








<b>Building</b>	<b>Room/ Lab No.</b>	<b>Instrument Name</b>	<b>Instrument Purpose</b>	<b>Geo Tagged Photographs</b>
Main Building, A Wing, Fourth floor	423 (1)	Digital PH meter	Sterilizes samples or equipment digitally monitored for precision.	
Main Building, A Wing, Fourth floor	423 (1)	Ampoule Sealing And Filling machine	Compresses powder into tablets of uniform size and weight.	
Main Building, A Wing, Fourth floor	423 (1)	Hot Plate	Removes moisture from materials using hot air circulation.	

Atmiya University, Rajkot-Gujarat-India

**Registrar**  
**Atmiya University**  
**Rajkot**








<b>Building</b>	<b>Room/ Lab No.</b>	<b>Instrument Name</b>	<b>Instrument Purpose</b>	<b>Geo Tagged Photographs</b>
Main Building, A Wing, Fourth floor	423 (1)	Capsule Filling Machine	Mixes liquids or solutions using mechanical stirring.	
Main Building, A Wing, Fourth floor	423 (1)	Tablet Coating Pan	Cleans bottles for pharmaceutical or industrial use.	
Main Building, A Wing, Fourth floor	423 (1)	Aseptic Cabinet	Extracts liquid from plant materials under pressure.	

Atmiya University, Rajkot-Gujarat-India

**Registrar**  
**Atmiya University**  
**Rajkot**





<b>Building</b>	<b>Room/ Lab No.</b>	<b>Instrument Name</b>	<b>Instrument Purpose</b>	<b>Geo Tagged Photographs</b>
Main Building, A Wing, Fourth floor	423 (1)	Melting Point Apparatus	Fills tubes with ointments or creams efficiently.	
Main Building, A Wing, Fourth floor	423 (1)	Mass Mixture Hand Operated	Blends and homogenizes samples for uniform particle distribution.	
Main Building, A Wing, Fourth floor	423 (1)	Disintegration Apparatus	Maintains controlled environment for biological oxygen demand testing.	




Atmiya University, Rajkot-Gujarat-India

**Registrar**  
**Atmiya University**  
**Rajkot**










<b>Building</b>	<b>Room/ Lab No.</b>	<b>Instrument Name</b>	<b>Instrument Purpose</b>	<b>Geo Tagged Photographs</b>
Main Building, A Wing, Fourth floor	423 (1)	Digital Autoclav	Separates particles based on size using vibratory motion.	
Main Building, A Wing, Fourth floor	423 (1)	Rotary Tablet Punching Machine	Seals bottles to ensure sterility and prevent leaks.	
Main Building, A Wing, Fourth floor	423 (1)	Tray Dryer	Provides uniform heating for sterilization or drying.	

Atmiya University, Rajkot-Gujarat-India

**Registrar**  
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**Rajkot**








<b>Building</b>	<b>Room/ Lab No.</b>	<b>Instrument Name</b>	<b>Instrument Purpose</b>	<b>Geo Tagged Photographs</b>
Main Building, A Wing, Fourth floor	423 (1)	Michenical Stirrer	Precisely fills liquids into containers or bottles.	
Main Building, A Wing, Fourth floor	423 (1)	Bottle Washing machine	Measures electromotive force (EMF) or potential difference of a circuit.	
Main Building, A Wing, Fourth floor	423 (1)	Ticture Press	Measures turbidity or cloudiness of liquids, indicating particle concentration.	

Atmiya University, Rajkot-Gujarat-India

**Registrar**  
**Atmiya University**  
**Rajkot**





<b>Building</b>	<b>Room/ Lab No.</b>	<b>Instrument Name</b>	<b>Instrument Purpose</b>	<b>Geo Tagged Photographs</b>
Main Building, A Wing, Fourth floor	423 (1)	Ointment Tube Filling Machine	Measures concentration of certain metal ions in solutions using flame emission.	
Main Building, A Wing, Fourth floor	423 (1)	Homogenizer	Detects and measures fluorescence intensity of compounds for analysis.	
Main Building, A Wing, Fourth floor	423 (1)	B.O.D. Incubator	Measures refractive index to determine concentration or purity of substances.	






Atmiya University, Rajkot-Gujarat-India

**Registrar**  
**Atmiya University**  
**Rajkot**





<b>Building</b>	<b>Room/ Lab No.</b>	<b>Instrument Name</b>	<b>Instrument Purpose</b>	<b>Geo Tagged Photographs</b>
Main Building, A Wing, Fourth floor	423 (1)	Seive Shaker	Measures electrical conductivity of a solution to assess ionic content.	
Main Building, A Wing, Fourth floor	423 (1)	Bottle Sealing machine	Determines concentration of colored compounds in a solution using absorbance.	
Main Building, A Wing, Fourth floor	423 (1)	Hot Air Oven	Measures optical rotation to identify chiral substances or concentration of optically active compounds.	



Atmiya University, Rajkot-Gujarat-India

**Registrar**  
**Atmiya University**  
**Rajkot**





**ATMIYA  
UNIVERSITY**


NAAC – Cycle – 1  
AISHE: U-0967

Criterion- 3

R, I & E

KI 3.3

M 3.3.1

Building	Room/ Lab No.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Main Building, A Wing, Fourth floor	423 (1)	Liquid Filling machine	Determines water content in samples using Karl Fischer titration.	

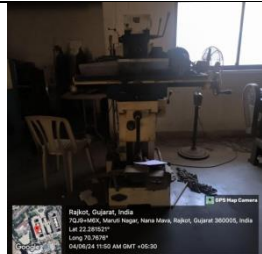
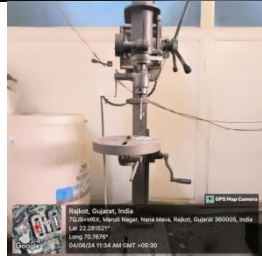

Atmiya University, Rajkot-Gujarat-India

**Registrar**  
**Atmiya University**  
**Rajkot**





**Details of Instruments - Workshop**

Building	Room no.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Workshop, Ground Floor	01	Milling Machine	Remove material from a workpiece using rotary cutters to achieve desired shapes, dimensions, and surface finishes.	
Workshop, Ground Floor	01	Drilling Machine	Create holes in workpieces using rotating drill bits, enabling precise and accurate hole-making operations in various materials.	
Workshop, Ground Floor	01	Shaper Machine	Produce flat surfaces, slots, and irregular shapes on workpieces by removing material using a reciprocating cutting tool.	

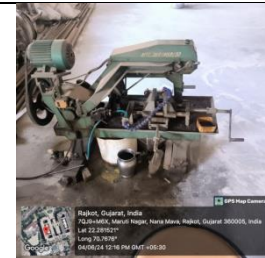
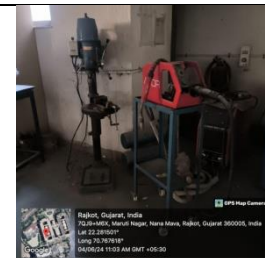
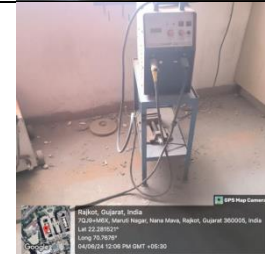
Atmiya University, Rajkot-Gujarat-India

**Registrar**  
**Atmiya University**  
**Rajkot**










<b>Building</b>	<b>Room no.</b>	<b>Instrument Name</b>	<b>Instrument Purpose</b>	<b>Geo Tagged Photographs</b>
Workshop, Ground Floor	01	Hackshaw Cutting Machine	Cut through materials by using a manual saw with a fine-toothed blade, often used for metalworking or woodworking tasks.	
Workshop, Ground Floor	01	TIG Machine	Join metals together by creating an arc between a non-consumable tungsten electrode and the workpiece while shielding the weld zone with inert gas.	
Workshop, Ground Floor	01	MIG Machine	Join metals together by using a consumable electrode wire that melts and forms a weld pool, while shielding the weld zone with inert gas.	
Workshop, Ground Floor	01	Arc Welding Machine	Join metals together by creating an electrical arc between a welding electrode and the workpiece, melting the metals and forming a weld joint.	

Atmiya University, Rajkot-Gujarat-India

**Registrar**  
**Atmiya University**  
**Rajkot**





Building	Room no.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Workshop, Ground Floor	01	CNC Machine	Automate and control machining operations with high precision and accuracy using computer programs and machine tools.	
Workshop, Ground Floor	01	VMC Machine	Perform milling, drilling, and cutting operations on workpieces with precision and efficiency using vertical spindle orientation and computer programs	
Workshop, Ground Floor	01	Lathe Machine	Perform various machining operations such as turning, facing, drilling, and threading on workpieces to achieve desired shapes and dimensions.	

Atmiya University, Rajkot-Gujarat-India

**Registrar**  
**Atmiya University**  
**Rajkot**





**Details of Instruments - Science Building**

<b>Building</b>	<b>Room no.</b>	<b>Instrument Name</b>	<b>Instrument Purpose</b>	<b>Geo Tagged Photographs</b>
Science Building, Second Floor	215	Thermocycler	For exponential amplification of gene (DNA)	
Science Building, Second Floor	215	Biosafety Cabinet	For working with biohazardous or infectious organisms to prevent contamination	

Atmiya University, Rajkot-Gujarat-India

**Registrar**  
**Atmiya University**  
**Rajkot**







Building	Room no.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Science Building, Second Floor	215	Thermocycler	For exponential amplification of gene (DNA)	
Science Building, Second Floor	215	Centrifuge	For separation of particles suspended in aqueous medium according to particle size and density, viscosity of the medium, and rotor speed.	

Atmiya University, Rajkot-Gujarat-India

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**Rajkot**






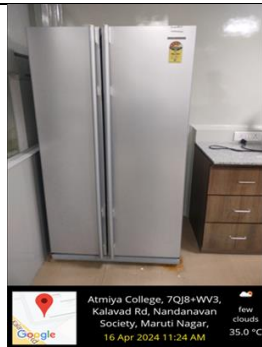
Building	Room no.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Science Building, Second Floor	215	Orbital Shaker	For a variety of general-purpose shaking applications in cell culture, bacterial growth and suspension, staining and washing procedures.	
Science Building, Second Floor	215	Clone Zone Biosafety Cabinet	This cabinet is specially designed to save the user from all kinds of biological hazards.	

Atmiya University, Rajkot-Gujarat-India

**Registrar**  
**Atmiya University**  
**Rajkot**





Building	Room no.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Science Building, Second Floor	215	Gel Doc	For recording and analyzing differently stained gels and membranes from gel electrophoresis and membrane blotting experiments	
Science Building, Second Floor	210	Deep Freezer	For storing and organizing a different kind of biological samples for a long time, from a few months up to even a couple of years.	

Atmiya University, Rajkot-Gujarat-India

**Registrar**  
**Atmiya University**  
**Rajkot**







**ATMIYA  
UNIVERSITY**

**NAAC – Cycle – 1  
AISHE: U-0967**

**Criterion- 3**

**R, I & E**

**KI 3.3**

**M 3.3.1**

Building	Room no.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Science Building, Second Floor	210	Inverted Microscope	For live cell imaging.	
Science Building, Second Floor	210	Laminar Air Flow	For aseptic culturing of animal cells	

Atmiya University, Rajkot-Gujarat-India

**Registrar**  
**Atmiya University**  
**Rajkot**





**ATMIYA  
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**NAAC – Cycle – 1  
AISHE: U-0967**

**Criterion- 3**

**R, I & E**

**KI 3.3**

**M 3.3.1**



Building	Room no.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Science Building, Second Floor	210	Co2 Incubator	For growth and maintenance of animal cells	
Science Building, Second Floor	210	Centrifuge	For separation of particles suspended in aqueous medium according to particle size and density, viscosity of the medium, and rotor speed.	

Atmiya University, Rajkot-Gujarat-India

**Registrar**  
**Atmiya University**  
**Rajkot**





Building	Room no.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Science Building, Second Floor	207	Bod Incubator	For determining levels of organic matter and nitrogen in wastewater samples. For providing the required temperature for microbial growth and performing the BOD testing.	
Science Building, Second Floor	207	Orbital Shaker	For a variety of general-purpose shaking applications in bacterial growth and suspension, etc along with staining and washing procedures.	

Atmiya University, Rajkot-Gujarat-India

**Registrar**  
**Atmiya University**  
**Rajkot**





Building	Room no.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Science Building, Second Floor	207	Bead Ruptor	For grinding, lysing, and homogenizing biological samples prior to molecular extraction	
Science Building, Second Floor	207	Visible Spectrophotometer	For quantifying nucleic acid and protein content in biological samples.	

Atmiya University, Rajkot-Gujarat-India

**Registrar**  
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Building	Room no.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Science Building, Second Floor	207	Microoven	For media preparation extraction, disinfection, etc.	
Science Building, Second Floor	207	Water Bath	For incubation of biological samples in water at a constant temperature over a long period of time.	

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**NAAC – Cycle – 1  
AISHE: U-0967**

**Criterion- 3**

**R, I & E**

**KI 3.3**

**M 3.3.1**

Building	Room no.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Science Building, Second Floor	207	Inverted Microscope	For live imaging of cells	
Science Building, Second Floor	207	Incubator	For the growth and maintenance of microbiological cultures.	

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AISHE: U-0967**

**Criterion- 3**

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**KI 3.3**

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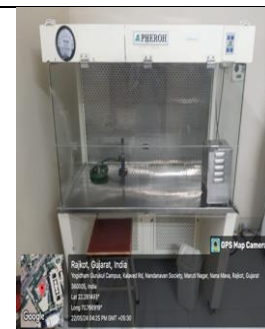
Building	Room no.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Science Building, Second Floor	207	Cooling Centrifuge	For separation of cells, organelles, and cellular components, such as DNA, RNA, and proteins in cold conditions.	
Science Building, Second Floor	213	Incubator	For the growth and maintenance of microbiological cultures.	

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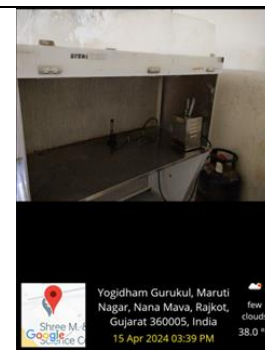
Building	Room no.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Science Building, Second Floor	213	Orbital Shaker	For a variety of general-purpose shaking applications in bacterial growth and suspension, etc along with staining and washing procedures.	
Science Building, Second Floor	204	Laminar Air Flow	For aseptic culturing and maintenance of plant tissue, callus etc.	

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**Rajkot**





Building	Room no.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Science Building, Second Floor	204	Deep Freezer	For storing and organizing different kind of biological samples for a long time, from a few months up to even a couple of years.	
Science Building, Second Floor	204	Laminar Air Flow	For aseptic culturing and maintenance of plant tissue, callus etc.	

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Building	Room no.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Science Building, Second Floor	Preparation room	Refrigerator	For the storage of biological samples for long durations.	
Science Building, Second Floor	Preparation room	Hot Air Oven	For sterilization process and checking temperature stability of samples.	

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Building	Room no.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Science Building, Second Floor	Preparation room	Auoclave	For decontaminating biological waste and sterilizing media, instruments and lab ware.	
Science Building, Second Floor	217	Weighing Balance	For the correct weighing of samples, reagents, media etc.	

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Building	Room no.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Science Building, Thirdfloor	305	Spectrophoto Metre	Determine metal ion concentration	
Science Building, Third floor	305	Ph-Metre	Determine unknown concentration of solution	
Science Building, Third floor	305	Ph-Metre	Determine unknown concentration of solution	

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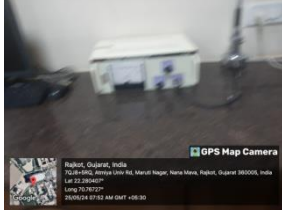

Building	Room no.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Science Building, Third floor	305	Ph-Metre	Determine unknown concentration of solution	
Science Building, Third floor	305	Polarimetre	Determine Specific rotation of solution	
Science Building, Third floor	305	Conductometre	Determine unknown concentration of solution	
Science Building, Third floor	305	Conductometre	Determine unknown concentration of solution	

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Building	Room no.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Science Building, Third floor	305	Conductometre	Determine unknown concentration of solution	
Science Building, Third floor	305	Ultrasonic Interferometer	Determine Compresibility of unknown concentration of solution	
Science Building, Third floor	305	Refractometre	Determine Refractive index of unknown concentration of solution	

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**NAAC – Cycle – 1  
AISHE: U-0967**

**Criterion- 3**

**R, I & E**

**KI 3.3**

**M 3.3.1**

Building	Room no.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Science Building, Third floor	305	Weight Balance	Determine weight of substance	
Science Building, Third floor	314	UvSpectrophoto Meter	To determine Y max of given solution	

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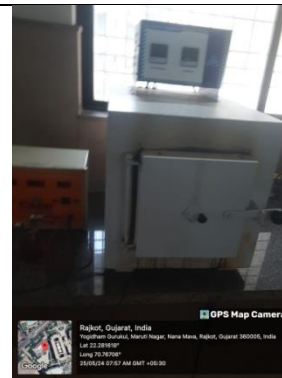

**NAAC – Cycle – 1  
AISHE: U-0967**

**Criterion- 3**

**R, I & E**

**KI 3.3**

**M 3.3.1**

Building	Room no.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Science Building, Third floor	314	Furnace	heat the substance up to 1200 C	
Science Building, Third floor	315	Furnace	1200 degree celcius	



Atmiya University, Rajkot-Gujarat-India

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AISHE: U-0967**

**Criterion- 3**

**R, I & E**

**KI 3.3**

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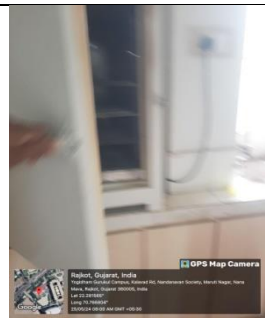
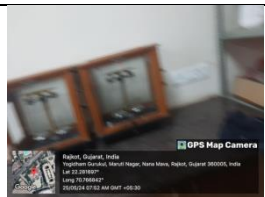
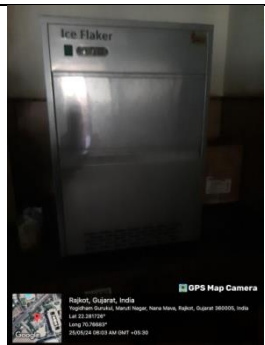
<b>Building</b>	<b>Room no.</b>	<b>Instrument Name</b>	<b>Instrument Purpose</b>	<b>Geo Tagged Photographs</b>
Science Building, Third floor	314	Rotavapor	Distillation, Separation and purification	
Science Building, Third floor	315	Hot Own	dry compound	

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Building	Room no.	Instrument Name	Instrument Purpose	Geo Tagged Photographs
Science Building, Third floor	315	Hot Own	dry compound	
Science Building, Third floor	305	Old Weight Balance	weight compound	
Science Building, Third floor	314	Ice Maker	PREPARE ICE	



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