

List of Instrument for the beneficiary Institutes under STI Policy

Sr. No.	Instrument Name	Name of University/ Institute
1.	Two High Performance Computing Workstations	DAIICT
2.	Nikon D5600 DSLR Camera with AF-P 18-55 mm +AF-P 70-300 mm VR Kit	
3.	Hioki IM3536	
4.	Keithley 2400 Source Measurement Unit (SMU)	
5.	MDOxxxx series- Oscilloscope	
6.	Commercial Leaf wetness sensor & IR Sartorius soil moisture meter	
7.	Laboratory Hot Air Oven, Hot plate	
8.	Digital Storage Oscilloscope + Digital multimeter + Power Supply	
9.	PC oscilloscope (Digilent analog discovery	
10.	Soldering equipment, solder station	
11.	Desktop computer (2 Pc) and 1 Laptop	
12.	NVIDIA Jetson AGX Xavier (2 Pc)	
13.	Intel Real Sense Depth Camera (2Pc	
14.	Wireless Bluetooth earphone	
15.	ECG Monitor	
16.	Laptop	
17.	Tablet	
18.	3D Printer Material	Marwadi University, Rajkot
19.	Electronics Hardware Platform for processing Audio/Video/Image Signals	
20.	Pin on disc wear testing machine along with digital controller with Lab view based Online Data acquisition software for wear measurement, frictional force measurement and coefficient of friction, Planetary Ball Mill, Baking Oven (0-500C)	
21.	Concrete air entrainment meter, shrinkage measurement apparatus, Hi configuration Laptop/ Desktop, Mobile, and DSLR camera with tripod, Concrete Permeability meter, Half-cell potentiometer, Pre/Post stressing assembly for pre --cast members, Concrete surface abrasion testing apparatus, Special testing Laboratory charges, Product development and patenting, market, research and collaboration	
22.	Electronic components	Government Engineering College, Gandhinagar
23.	2/4 channel EMG/ NCV/ EP machine,	
24.	Intel i5 (8th gen) with UHD graphics 630, 8GB DDRM, 1 TB Storage, DoS based system (2 pieces)	

25.	3D printer including Installation and Maintenance	Silver Oak College of Engineering, Ahmedabad
26.	Prototype furnace (Lab scale)	Nirma University, Ahmedabad
27.	Muffle furnace (1400°C) with gas purging and exit facility Chamber size – 8"x8"x16", Approximately 10KW,	
28.	SS 310 Boxes with cover – 6Nos 6"x6"x6" cube shape or cylinder shape	
29.	Thermocouples and indicators,	
30.	Prototype furnace with accessories – Pilot scale (around 50 to 100kgs/hr) capacity	
31.	3D Printer (ZORTREX)	
32.	Mini Laser Cutting Machine	
33.	RF Sputtering unit, single target, 3" target size	
34.	Optical microscope	
35.	Clean air bench	
36.	Vacuum desiccator	
37.	Plasma MSW Pyrolysis system (Capacity 0.5 TPD)	
38.	Remote Computing device- Dell XPS 13 or similar handheld devices as per the requirement	
39.	Printer (1) HP LaserJet Pro M126nw	
40.	Micro controllers A with sensors. ESP32S2 Node and sensors to be integrated (Ultrasonic sensors) (Device variant) [1250 Rs per unit * 50 units (46 + 4 extra)].	
41.	Micro controllers – B with Sensors Micro controllers – B with Sensors ESP32 Sim800L Node and sensors to be integrated Rain/Light/Atmospheric Sensor (Device Variant-II) [3250 Rs per unit x 25 units (22 = 3 Extra)].	
42.	Micro controllers – C for long range communications FiPy Board and sensors to be integrated [Rs 10000 per board * 10 units].	
43.	Smart Device (Watch/Cap). [3000 Rs per smart device x 5 units].	
44.	Acoustic/Air Pollution Sensors.	
45.	Drones (for testing in rural site) Drones with mounted Base Stations having payload carrying capacity of 2 Kgs.	
46.	Accessories. Tools / equipment for shouldering / fabrication services/ packaging of equipment / device installation service charges.	
47.	Grinder cum High speed mixer 25 kg, Polymerization Reactor, Water Vapor Transmission Rate (WVTR), Oxygen Transmission Rate (OTR), Co efficient of Friction for Films (CoF), Material Modelling and Simulation software	
48.	dSPACE MicroLabBox	
49.	Universal Current Meter With directional indicator	
50.	Ultrasonic Level Sensor	

51.	Non-contact type Torque sensor	Sarvajanik College of Engineering and Technology, Surat
52.	Non-contact type tachometer	
53.	Distance meter	
54.	DC Alternator	
55.	Power Quality Analyzer	
56.	Centrifugal Pump	
57.	Ultrasonic Flow meter	
58.	Fabrication of collector	Shroff S R Rotary Institute of Chemical Technology, Ankleshwar
59.	Measuring instruments (Pyranometer, Thermocouple, Water Flow meter, Pressure gauge, TDS meter, PH meter)	
60.	Data Acquisition System	
61.	External Disk storage	Indus University, Ahmedabad
62.	Context Aware Incubator Preparation Material: Incubator	
63.	NodeMCU	
64.	Flex Sensor, Pulse Sensor, Load Cell Sensor, Ultrasonic Sensor, Temperature and Moisture Sensor, PIR Sensor	
65.	Jumper Wires	
66.	GSM/GPRS Module	
67.	DFT Software (VASP/CASTEP with Phonon package) - Basic requirement for present calculation, Origin software - Graphical analysis of result and report preparation, Workstation - Computational cost is quite high for DFT calculation which demands high performance multicore system, UPS - For continuous calculation	
68.	Development of Coriolis flow meter	GIDC Degree Engineering College (Managed by GIDC Education Trust, Abrama)
69.	Development of calibration test rig for Coriolis flow meter	
70.	Magnetic Stirrers	The Maharaja Sayajirao University of Baroda, Vadodara
71.	Vacuum Pump/Water Aspirator/Weighing Balance	
72.	UV Chamber	
73.	Oven	
74.	UV.Visible Spectrophotometer	
75.	Contact temperature bath	
76.	Vacuum pump	
77.	Creep and shrinkage measurement – One unit	PDEU, Gandhinagar
78.	High energy ball mill – One	
79.	Controlled Steam sprayer unit with automation	
80.	Sensors with feedback control mechanism and cameras	
81.	Tunnel for the disinfection with other allied Accessory	
82.	Laptop	

83.	Workstation for characterizations	
84.	High End Computing System with inbuilt GPU and Windows 10 OS License Version	
85.	USB HD cameras	
86.	USB – Ethernet Adapter	
87.	Gigabit Ethernet managed Switch with cables	
88.	Raspberry pi Boards	
89.	USB Keyboard- mouse and HDMI monitor for Raspberry pi Boards	
90.	Complete Kit for Health Monitoring (Medical Development Platform)	
91.	Accelerometer, Gyroscope, Position sensors Actuators	
92.	Arduino Mega Board	
93.	Wi-Fi adapter for Arduino Mega	
94.	Desktop, Laptop and Other Hardware Devices.	
95.	Hardware and Network Systems to setup the Cloud Infrastructure	
96.	Customized experimental set up for Hybrid Battery Thermal Management System for Electric Vehicles (EVs) with data acquisition system.	
97.	High Performance Workstation	
98.	High Shear Mixer or Blender	
99.	Laptop with configuration ideally, i9, 32 GB RAM, 4GB Graphic Core	
100.	High Precision High Frequency Impedance Analyzer (Frequency Range: up to 10 MHz)	Department of Physics Saurashtra University, Rajkot
101.	High Temperature Wear Testing Machine (Pin on Disc upto 600°C),	SVIT, Vasad
102.	Micro Balance	
103.	Laser Particle Size Analyzer	Bhavan's Shri
104.	Magnetic stirrer with hot plate	I.L.Pandya Arts Scince
105.	Electronic balance	and Smt. J.M. Shah
106.	Oven	
107.	UV light Chamber	
108.	Ultrasonic Cleaner (Sonicator) – 20 Ltrs. Capacity,	SVNIT, Surat
109.	Rheometer	
110.	Bomb Calorimeter	
111.	Magnetic stirrer	
112.	One- R&D Controller Micro- Lab Box with software, DS1202/DS1302, d-SPACE with computing and other auxiliaries.	
113.	Synchronous Generator (Permanent magnet /Reluctance machine) (5 H.P, 1500 rpm, 4 pole, 240 V L-L.	
114.	Three phase induction motor (5 H.P, 1500rpm,415V).	
115.	Single Phase induction machine (3.7kW, 220V) coupled with three induction machine (7.5 hp 415V) with coupling and steel foundation arrangement.	

116.	10hp, 415volts, Variable Frequency Drives
117.	Hall effect voltage sensors, LEM made, LV25-P
118.	Hall effect current sensors, LEM made, LA55-P
119.	Single Power quality analyzer
120.	Single phase resistive loads, 5kW/24Amp
121.	Voltage source Converter (VSC) -Four leg IGBT based switches
122.	400V, 7.5 Ah, Battery Energy Storage System
123.	Current probes for Digital Storage Oscilloscope (DSO) for current measurements, (Keysight/Agilent made)
124.	Differential Probes for DSO for voltage measurement, (Keysight /Agilent made)
125.	Regulated Power Supplies
126.	Centrifugal blower with motor
127.	Air flow controller
128.	PCB based variable speed controller
129.	Pressure sensor
130.	Three axis transversing mechanism
131.	Temperature sensors and scanners
132.	PLC and SCDA software
133.	Camera
134.	Computer system
135.	Hot wire anemometer with noise cancellation unit.
136.	KNF Rotary evaporator RC 900
137.	Magnetic Stirrers (IKA)×3
138.	8 No.s of Wi-Fi based sensors @Rs. 1,50,000 each
139.	Solar simulator room with light handling System
140.	Insulation and Anodized Aluminium cladding for simulator of room
141.	Light source for simulator
142.	Ready to use model of E house with thermocouple arrangement and data logger
143.	Fabrication of PCM enclosures
144.	Fabrication of night air channel
145.	SCADA system for measurement
146.	Weather station
147.	Workstation with high configuration
148.	Rheometer
149.	Syringe pump
150.	Franz diffusion cell
151.	Slot-Die Heads with accessories
152.	Fabrication of Copper Microchannel Test Section <ul style="list-style-type: none"> • Straight through MCHS • Proposed MCHS
153.	Cole Parmer Peristaltic Pump for high-temperature flow, Liquid Flow Meter, Absolute Pressure

	Transducer, T-type thermocouples, Copper tube Pre-heater	
154.	Selective powder deposition 3D printer	
155.	Muffle Furnace with crucibles	
156.	Polycarbonate solar green house, Material handling arrangement, Temperature and Humidity Sensor, Data Logger (48 channel), Solar collector (evacuated glass tube air heater), Solar panels, Solar radiation sensors (Pyranometers), Centrifugal blower, Controller, Wind speed sensors (anemometer), Weighing machine	
157.	Portable Work Station	Dr. Jivraj Mehta institute of Technology
158.	Printer/Scanner/ Copier	
159.	3D Printer	
160.	PLM Software	
161.	HPLC Column	Parul University, Vadodara
162.	High Performance Liquid Chromatography	Maliba Pharmacy college, Uka Tarsadia University, Surat
163.	Orbital shaker [cooling]	
164.	Tissue homogenizer	
165.	Shimadzu make Spectrofluorophotometer Model: RF-6000	
166.	8 Station Dissolution Tester with Standard and off line sampling accessories	Sankalchand Patel Nootan Pharmacy College, Visnagar
167.	Quantum cascade laser for SO ₂	IITGN
168.	Multipass gas cell	
169.	Desktop Computer (High end)/ Workstation	
170.	Futek load cell with amplifier	
171.	NI my rio real time controller	
172.	Geared motors with motor drivers and power supply	
173.	High accuracy gyroscopes and strain gauges for distributed sensing [multiple]	
174.	Potentiostat and related accessories	
175.	Broadband light source and accessories	
176.	High-grade motors, motor drivers, controllers and electronics, Force sensors and amplifiers	
177.	Compact ultrasound system /transducers /controllers / accessories	
178.	Pumps, tubes and other hardware	Central Salt & Marine Chemicals Research Institute (CSMCRI), Bhavnagar
179.	Minor equipment	
180.	Ansys HFSS Microwave Studio Perpetual License	GTU School of Engineering & Technology, Gujarat Technological University, Chandkheda, Ahmedabad
181.	Ion Chromatograph and Accessories	Gujarat Vidhyapith

182.	Road Side Unit (RSU) - MK5 (Cohda).	Ahmedabad University
183.	On Board Unit (OBU) - MK5 (Cohda).	
184.	SDK (Software) - SFTWA-RL15 (Cohda)	
185.	Workstation HP Z8 G4 (48 GB RAM) with NVIDIA Graphic Card (24 GB) – 1	
186.	Workstation HP Z4 G4 (32 GB RAM) with NVIDIA Graphic Card (8 GB) – 1	
187.	Laptop – 1	
188.	Embedded Boards NVIDIA or CORAL with adapters and accessories – 2	
189.	Omni Directional Surveillance Camera – 2	
190.	Storage Drives 4 TB – 2	
191.	4G Dongle with Static IP for connectivity UPS - 2	
192.	Dynamic Light Scattering	Sri M. M. Patel Institute of Sciences & Research, KSV
193.	SURVISMETER (Including portable density meter)	
194.	High Speed Refrigerated Centrifuge	P.D. Patel Institute of Applied Sciences, CHARUSAT
195.	BOD Incubator	
196.	Shoemagnet, Survismeter, UV/Visible spectrophotometer, Centrifuge, Sonicator, Electronic Multimeter, HP Laser Printer black & white	Central University of Gujarat, Gandhinagar
197.	Pump, supply valves , Water Flow switches	Ganpat University
198.	Workstation, Prusa 3D printer and Filaments, Motors and Motor Drivers, Linear Actuators, Software Packages, Wheels and Accessories, Micro Controllers and Processor, PCB Manufacture, Sensors with Accessories, Conveyor belt and Pulley, Displays & Cameras	A. D. Patel Institute of Technology (ADIT), New V.V. Nagar
199.	Jar Test Apparatus and accessories	V.V.P. Engineering College, Rajkot
200.	2 kW Solar Panels, 2 kW Windmill including design and making charges, Batteries (4 * 150 Ah), Power Converters at the DC bus to combine solar, wind and batteries, Multi-meters standard models of Fluke or Krykart total 3 in numbers	
201.	Work station	IITRAM, Ahmedabad
202.	Environmental shaker Viscometer, Amino Column for HPLC Cooling centrifuge	Gujarat University, Ahmedabad
203.	Membrane casting machine, Analytical balance digital precision (Up to 3 digits)	P P Savani University, Surat
204.	Mini Double Cone Blender with Speed and Time Control (maximum 100 Gm Capacity) – Custom Made, High Resolution (at least 10 Mega Pixel) Microscope Camera	Ramanbhai Patel College of Pharmacy, Charotar University of Science and Technology, Changa
205.	Cameras, sensors, display along with Bluetooth and Wi-Fi facilities and material, Digital logic analyser, Digital Microscope, Multimeter, Oscilloscope, Spectrum Analyser, Signal generator, Soldering Station, Network analyser, Software Compiler, SMT Pick and Place machine	Rashtriya Raksha University, Gandhinagar