



List of Sophisticated Equipments/Instruments

Sr. No.	Name and make of Sophisticated Instrument	Date of Purchase	Cost of equipment	Name of scheme under which it was purchased
BIOSCIENCES				
1.	Gradient Thermal Cycler	16/11/2007	5,32,000/-	DBT Project
2.	Gel Documentation System	10/08/2007	12,03,000/-	DBT Project
3.	Gel Documentation System	18/10/2012	16,47,000/-	DBT/CEIB
4.	2D-Electrophoresis System	31/08/2012	8,91,000/-	DBT/CEIB
5.	Walk-in Cold Room	2013	10,00,000/-	DBT-CEIB
6.	DNA Sequencer	04/09/2012	63,00,000/-	DBT/CEIB
7.	HPLC	05/03/2011	15,47,000/-	DBT Project
8.	Nano Spectrophotometer	28/09/2010	5,25,000/-	DBT Project
9.	Pulsed Field Gel Electrophoresis (PFGE)	23/12/2010	16,94,000/-	DBT Project
10.	RTPCR	22/10/2012	17,56,000/-	DBT Project
11.	High Speed Refrigerated Centrifuge	01/10/2012	13,80,000/-	DBT/CEIB
12.	Denaturing Gradient Gel Electrophoresis (DGGE)	23/11/2011	6,00,000/-	DST Project
13.	Refrigerated Environmental Shakers	15/11/2012	9,43,000/-	DBT/CEIB
14.	Refrigerated Environmental Shakers	15/11/2012	6,50,000/-	DBT/CEIB
15.	Gas Chromatograph	24/08/2006	9,40,000/-	DST Project
16.	UV-Visible Spectrophotometer	16/11/2007	5,17,000/-	DBT Project
17.	Lyophilizer	01/03/2003	10,82,000/-	DBT/CEIB
18.	Biolog (Microlog 1) Includes turbidometer, softwares and electronic multichannel pipettor)	10/2/2007	5,00,000/-	DST project



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19.	Purchased under DST project (HRK/DST 2007) Eppendorf ref centrifuge	11/10/2011	5,00,000/-	UGC project.
20.	Spectrophotometer	24/09/2012	5,00,000/-	DBT project
21.	Refrigerated centrifuge	15/03/2013	5,00,000/-	CSIR project
CHEMISTRY				
1.	UV-Visible Spectrophotometer [UV1800 Shimadzu, Japan]	2011-2012	5,21,302/-	UGC XI th Plan
2.	FT-IR Spectrophotometer MB-3000, ABB Bomem, Canada	2010-2011	11,73,756/-	UGC XI th Plan
3.	Density and Sound Velocity (DSA) meter (Anton Paar, USA)	2013-2014	13,83,165/-	UGC XII th Plan
4.	Euro EA Elemental Analyzer (CHNS-O), (Euro EA3000, Euro Vector, USA)	2013-2014	23,58,891/-	UGC CAS
5.	Spectrofluorometer FLUORO Max-4/HORIBA Japan	2013-2014	31,78,439/-	UGC CAS
6.	Computer Cluster Lab, HP-USA	2013-2014	24,28,669/-	UGC CAS
7.	Simultaneous Thermal Analyzer (DSC-TGA) Q-600, TA instruments, USA	2012-2013	21,07,990/-	DST-FIST-2
CISST				
1.	Ultra Fast Triple Quadruple Liquid Chromatography and Mass Spectrometer, Model: LCMS 8030 with Nexera UHPLC, Make: Shimadzu, Japan	2012-13	77,62,734/-	DST-PURSE
2.	Millipore Water Purification System, Model: Prefiltration Kit +Elix- 3+50L Storage Reservoir+ Synergy Pure System, Make: Merck Millipore	2012-13	6,33,579/-	DST-PURSE
3.	Spectrofluorophotometer Model: RF-5301PC, Make: SHIMADZU, Japan	2012-13	8,17,703/-	DST-PURSE

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4.	Inverted Fluorescent phase contrast Research Microscope Make: Carl-Zeiss, Germany	2012-13	18,63,493/-	DST-PURSE
5.	Research Rotary and Oscillatory Rheometer Model: 102 Modular Compact, Make: Anton Paar, Graz. Austria	2012-13	17,40,714/-	DST-PURSE
6.	Fluorescence Micro Plate Reader Model No. Spectramax MZ & Multi Detection) Model: Spetramax MZc & Multi Detection Make: Molecular Devices LIC, U. S. A	2013-14	15,33,700/-	DST-PURSE
7.	High Performance Particle Size Analyzer along with Zeta Potential Model: SZ100 Make: Horiba Ltd., Japan	2013-14	17,34,500/-	DST-PURSE
8.	Complete DCI-VC-V Semiconductor Characterization System Make: Tektronik Asia Ltd., Beaverton	2013-14	40,14,230/-	DST-PURSE
9.	Isothermal Titration Calorimeter (Nano ITC Standard Volume System) Make: Water Ges.m.b.H, Vienna, Austria	2013-14	45,50,385/-	DST-PURSE
10.	Size Exclusion Chromatogram with RI Detector Model: Prominence GPC System; RID-20A Make: Shimadzu	2013-14	15,14,505/-	DST-PURSE
11.	Simultaneous High Temperature DTA-DSC-TGA System, Model: STA-8000, Make: Perkin Elmer Singapore	2014-15	27,16,665/-	DST-PURSE
12.	Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES), Model: Optima8000, Make: Perkin Elmer Singapore	2014-15	33,09,828/-	DST-PURSE
13.	Real Time PCR Model: CFX Connect Make: Bio-Rad, USA	2014-15	12,27,055/-	DST-PURSE
14.	Shimadzu Prominence Preparative cum Analytical HPLC System	2014-15	33,60,562/-	DST-PURSE



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15.	Model: LC-20AP, Make: Shimadzu, Japan DANI Make Gas Chromatograph with Head Space Sampler Model: Master GC, Make: DANI Instruments, Italy	2015-16	21,15,957/-	DST-PURSE
ELECTRONICS				
1.	EXCIMER LASER	June-2011	45,00,000/-	UGC XII Plan + Departments' various Budget
2.	Pumps, Gauges & Accessories for PLD System	04/11/11	8,59,842/-	State government grant
3.	High Vacuum Chamber and Pulsed LASER Deposition System	04/11/11	55,50,000/-	UGC XII plan grant and State government grant
4.	PULSED LASER based THIN FLIM DEPOTION FACILITY	June-2012	8,00,000/-	UGC XII plan grant and stat government grant
5.	Pfeiffer Vacuum PUMPS	2012	9,00,000/-	State government grant
6.	Cadence EDA tools (Software)	13/02/12	USD 21000/-	Gujarat government
7.	Mixed signal Oscilloscope (Agilent Make) with FPGA dynamic probe	27/01/12	627000/-	State government grant
8.	Electro Meter/ High Resistance Meter	02/11/12	USD 6825/-	State government grant
9.	High Temperature Rotary Tube Furnace	04/03/13	550000/-	State government grant

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10.	Source Meter	02/11/12	USD 7590/-	UGC Major Research Project
11.	Nano Volt Meter	23/10/12	USD 2760/-	State government grant
12.	Double beam UV-Vis Visible Spectrophotometer	24/09/13	206418/-	State government grant
13.	Planner Magnetron of 3" dia source shutter	07/02/14	210394/-	State government grant
14.	DC Sputtering System	03/02/14	344416/-	State government grant
HOME SCIENCE				
1.	Auto Analyzer (Roche, USA)	22/12/2011	22,00,000/-	SAP-UGC
2.	Spectrofluorometer (Hitachi, Japan)	17/12/2012	14, 44,000/-	SAP-UGC
3.	Real-Time PCR (Roche, USA)	01/02/2012	17, 50,000/-	UGC
4.	Gel- Documentation System	02/06/2011		XI-Plan
5.	Colour Flex (Hunter Lab., USA)	14/09/2012	7, 99,000/-	Govt. of Gujarat
6.	Texture Analyzer (Brookfield, USA)	02/02/2012	7, 71,000/-	Govt. of Gujarat
7.	Bio-Spectrophotometer		6, 00,000/-	XII-Plan
MATERIALS SCIENCE				
1.	Universal Testing Machine (INSTRON)	1995-96	18,81,912/-	SAP
2.	Automatic Surface Area Analyzer	1997-1998	8,03,354/-	ARDB
3.	Fourier transformer Infrared Spectrophotometer	1999-2000	17,35,342/-	DAE/IX plan
4.	Leica digital Camera	2004-05	6,42,250/-	IX plan
5.	Micro Raman Spectroscopy System	2006-07	61,01,685/-	DST-FIST
6.	Plasma Enhanced CVD System with Accessories (PECVD)	2007-08	14,29,000/-	Indo-German Project/ DST -FIST



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7.	Tribometer (CSM Instrument)	2009-2010	19,34,023/-	DST
8.	Automatic Micro Hardness Tester	2009-2010	10,93,500/-	Innovative Programme
9.	High temperature Horizontal Vacuum Tubular Furnace	2011-12	8,45,116/-	RFBR
10.	Nano Particle size Analyzer with Zeta Potential measurements	2011-12	10,18,945/-	IX Plan
11.	Food Color Measurement	2012-13	7,99,000/-	IX Plan/Lab Exp.
12.	Metler System (TGA,TMA,DSC)	2012-13	28,18,707/-	CAS-II
13.	Scanning Electron Microscope with accessories	1999-2000	35,02,416/-	SAP
PHARMACEUTICALS SCIENCE				
1.	Camag HPTLC	13/09/2011	26,45,912/-	UGC One Time Grant for Scientific Instruments
2.	Tablet Punching Machine	25/09/2012	5,14,500/-	UGC One Time Grant for Scientific Instruments
3.	FTIR	29/09/2012	8,61,159/-	UGC One Time Grant for Scientific Instruments
4.	Lyophilizer	06/05/2014	10,70,126/-	UGC 12 th Plan Grant
PHYSICS				
1.	Hall Effect Measurement System	03 - 02 - 2001	38,39,833/-	COSIST
2.	Imaging Spectrometer	22 - 07 - 2006	26,08,151/-	DAE-BRNS -PII
3.	Trinocular Upright Metallurgical Microscope	29 - 01 - 2001	14,04,362/-	DRS/SAP -PII
4.	Highly Stabilized X – Ray Equipment	31 - 03 - 1995	12,44,403/-	DRS/SAP -PI
5.	High Temperature Furnace (1700 °C)	25 - 01 - 2001	8,62,900/-	COSIST

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6.	Single Crystal X Ray Diffractometer With CCD Detector UNit	21 - 08 - 2008	1,34,15,081/-	DST/FIST
7.	X Ray Diffractometer System with JADE state data processing software	20 - 06 - 2007	29,22,057/-	DRS/SAP
8.	Thermal Analyser	12 - 07 - 2012	12,94,242/-	DAE/BRNS
9.	Particle Size Analyser—Zeta sizer	05 - 04 - 2013	12,98,193/-	DRS/SAP
10.	10KVA & 15KVA Static Converter 3Ph- In to 1Ph-Out & 3Ph- In to 3Ph-Out (one each)	29 - 01 - 2010	5,76,160/-	XI PLAN
ECONOMICS				
1.	Computers and printers, Photocopying machine, Camera and Camcorder etc.	2011 to 2016	Approximately 10,00,000/-	UGC-CAS-I
LIBRARY AND INFORMATION SCIENCE				
1.	ATIZ BOOK DRIVE PRO [Digital Scanner]		15,00,000/-	Innovative Programme funded by State Govt.
2.	BOOK EYE 4 [Digital Scanner]		13,00,000/-	Innovative Programme funded by State Govt.