

LIST OF EQUIPMENTS AVAILABLE IN VARIOUS DEPARTMENTS

Department of Bioinformatics

Biochemistry Lab Equipments

S.No	Name of the Equipment	Cost in Rs.	Make	Date of Purchase
1.	UV-VIS Spectrophotometer	182250	Systronics	26/08/06
2.	High speed cooling centrifuge	1,24,800	Remi	24.11.2010

Software

S.No	Name of the Software	Cost Rs.	Make	Date of Purchase
1.	GCG Software for sequence analysis	\$ 7000	Accelrys	10/08/07
2.	Schrodinger Bioinformatics Software	\$ 35000	Schrodinger	13/10/08

Department of Food Processing & Engineering

R & D Laboratory

S.No	Equipment Name & Details	Make / Model	Cost in Rs.	Date of Procurement
1	Fluid Bed Dryer	Sakav	480000	05.02.2007
2	Plate and Frame Filter Press	Parksan Filters	161000	05.02.2007
3	Fruit/ Vegetable cutting Machine	ESS EMM Corporation	126000	08.03.2007
4	Vacuum Sealing Machine	Sevana	135000	28.03.2007
5	Cont. Multipurpose Peeler	ESS EMM Corporation	160000	02.04.2007
6	Walk-In-Cooler, Modular	Rinac	250000	18.05.2007
7	Deep Freezer	Rinac	180000	18.05.2007

8	Steamatic Boiler	Maxel	582000	04.06.2007
9	Tubular Evaporator	Vijaya	650000	18.06.2007
10	Blanching Equipment	Vijaya	375000	18.06.2007
11	Parametrical Machine (Kevin)	Cavin Process Tech Pvt Ltd	1146000	26.06.2007
12	Dewatering Centrifuge	Pawan	203372	18.07.2007
13	Tubular Juice Pasteurizer	Goma	950000	30.07.2007
14	Ribbon Mixer	Goma	185000	30.07.2007
15	Sigma Mixer	Goma	248000	30.07.2007
16	Vacuum Shelf Dryer	Sakav	1148000	31.07.2007
17	Cross Flow Drier	Sakav	193000	31.07.2007
18	Multi Mill	Goma	159155	30.08.2007
19	Through Flow Dryer	Sakav	187000	26.09.2007
20	Vaccum Puffing System	Acmevac	120380	30.09.2007
21	Tubular Chiller, with Freon condensing unit	Aircon	225000	21.11.2007
22	Chilled Water Unit	Aircon	208147	21.11.2007
23	Pilot Plant Freeze Dryer	Lyodryer Scientific System Pvt. Ltd	2288520	04.12.2007
24	Homogenizer	Harvest Pumps	100000	20.11.2008
25	Vibro Fluidizer	Sakav	454216	24.4.08
26	Cad Mill	CAD Mech	199216	30.04.08
27	Sieving, Granding & Straining Machine	CAD Mech	121000	30.04.08
28	Granulator	CAD Mech	109000	30.04.08
29	Rice miling Machine	Agromech Engineering	160160	09.07.2008

30	Twin Screw Extruder	Basic Technology Ltd	1284000	20.02.09
31	Plate type Pasturizer	Filtron Engineering	558000	15.12.07
32	Spray Dryer	Filtron Engineering	1029626	04.06.07
33	Pouch Processing Retort	Lakshmi Engineering	625000	02.02.09
34	Auger Filing Machine	Acfil Machines	387000	04.03.09
35	Fruit&Vegetable Washing machine	Vijaya industrial & Engineering	202500	19.08.09
36	Membrane Processing Machine	Permionics	204750	16.6.11
37	Water Vapour Permeability Tester	Elixir Technologies	1570350	2.11.11
38	Oxygen Gas Permeability Packaging System	Elixir Technologies	1136580	2.11.11
39	Tubular Bowl Centrifuge	H&G Technomark	390000	11.11.11
40	Sparkler Filter Press	Bombay Pharma Equipments Pvt Ltd	109125	9.11.11
41	Spin Flash Dryer	Raj Process Equipment System	1040625	28.02.12

Food Processing Training Centre

S.No	Equipment Name & Details	Make / Model	Cost in Rs.	Date of Procurement
1	Stematic Boiler	Thermax Limited	212438	24.11.2006

Infrastructure Lab

S.No	Equipment Name & Details	Make / Model	Cost in Rs.	Date of Procurement
1	Dal Mill	Agromech	119600	09.07.2008
2	Mini Maize Mill	Agromech	137280	09.07.2008

3	L.S.U Dryer	Melwin Engineering	194785	26.11.2011
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Chemical Engineering Lab

S.No	Equipment Name & Details	Make / Model	Cost in Rs.	Date of Procurement
1.	Packed Bed Distillation setup	Almech	207000	04.03.2009
2.	Plate Type Heat Exchanger	Almech	170000	04.03.09

Food Quality Testing Lab

S.No	Equipment Name & Details	Make / Model	Cost in Rs.	Date of Procurement
1	HPLC	Shimadzu	13,44,000	20.06.2006
2	Refrigerated centrifuge	Eltek	1,25,040	21.06.2006
3	Gas chromatography	Neetel	4,30,684	11.07.2006
4	Submarine agarose Electrophoresis Model 3 to 3	Biotech Gel Systems	12,877.50	07.08.2006
5	IR moisture analyser	Precisa	1,18,125	11.08.2006
6	Low temperature Freezer	Sanyo	3,32,405	15.08.2006
7	Ice maker machine	Sanyo	2,09,131.88	15.08.2006
8	Fermentor	Lark	5,47,050	21.08.2006
9	680-Reader,PW-40 Washer	Bio Rad	289001	17.11.2006
11	FTIR Spectrophotometer	Bruker	838000	29.11.2006
12	Lyophilizer	Labconco corporation	637449	21.12.2006
13	Differential scanning colorimeter	Seetharama	10,94,871	22.12.2006
14	Spectrophotometer (UV/Visible)	Perkin Elmer	5,45,279	22.04.2007

15	Spray Dryer - LU 222 Advanced	Labultima	7,53,750	07.03.2012
16	RE10 Rotary Evaporator	Amkette Analytics Ltd.,	303450	06.07.2012
17	Nitrogen Analyzer (Protein)	Precision Scientific	207882	31.03.2012
18	Brookfield Viscometer	Brookfield Engineering Laboratories	417599	18.03.2013

Department of Aerospace Engineering

AERODYNAMIC LAB I

Sl. No.	Name of the equipment	Make	Cost in Rs.	Date of Purchase
1.	Sub Sonic wind tunnel with instrumentation	Sunshine Measurements PVT Ltd, Bangalore	33,04,459	30.3.2010
2.	Supersonic Wind Tunnel with instrumentation	Sunshine Measurements PVT Ltd, Bangalore	33,48,250	27.3.2011

AERODYNAMIC LAB II

Sl. No.	Name of the equipment	Make	Cost in Rs.	Date of Purchase
1	Rocket Engine test stand	Crisps	3,30,428	28.3.2010
2	Water tunnel facility	Rolling Hills, USA	11,78,259	18.8.2010
3	Shock tube (\varnothing 80x 0114x12.5mts)	Haldipur Hydraulicks, Bangalore	15,64,521	5.4.2011
4	KHS facility	Big Technologies, Cochin & Indigenous Department	3,71,949	5.1.2012
5	High Altitude Test Facility	Indigenous Department	1,50,000	2.1.2011

STRUCTURES LAB

Sl. No.	Name of the equipment	Make	Cost in Rs.	Date of Purchase
1	Wagner beam	Rathna controls and systems, Korattur, Chennai	1,96,350	5.8.2011
2	Diffused light polariscope	Rathna controls and systems, Korattur, Chennai	1,85,000	17.9.2011
3	UTM – Computerized universal Tester, model screw type, capacity – 20KN	ETS Intarlaken Technologies, Kolkata	3,34,801	30.5.2011

Department of Nanosciences and Technology

Research Facilities

S. No	NAME OF THE EQUIPMENT	Make	COST	DATE OF PURCHASE
1	EDAX	Oxford Instruments	25,26,616	15/1/2010
2	Atomic Force Microscope	Nanonics	43,90,513	16/06/2010
3	Integrated Analyzer NI	National Instruments	13,52,790	16/08/2010
4	Impedance analyzer	Solartron	17,98,320	12-09-2010
5	SEM	Jeol	33,15,189	18/9/2007
6	XRD	Shimadzu	29,76,600	13/12/2007
7	Digital Optical Microscope	Olympus Microscope	7,15,413	16/03/2012
8	Waveform Generator	Agilent	2,11,839	22/05/2012
9	Tip Etching Unit	Omicron Gmbh	4,08,000	02/05/2013
10	SPM Unit	Soft DB	2,99,250	10/11/2011
11	Lock in amplifier	Stanford Instruments	3,35,546	13/4/12
12	Inverted Microscope	Nikon	2,28,963	27/12/13
13	Video Microscope	Advancedtech Int. UAE	2,03,236	21/7/2013
15	Piezo Amplifier	Piezo Systems Jena	2,95,800	14/2/2012
16	3 D Printer & Scanner	Cubify 3D systems	2,40,259	8/1/14

17	NI controller for stepper Motor	National Instruments	3,60,240	04/09/2012
18	Photoluminescence	Horiba Jobin Yvon	26,58,377	05/12/2010
19	Nano-microparticle analyzer	Malvern Instruments	18,00,000	09/11/2009
20	Visible-UV Spectroscopy	Jasco	10,87,163	03/02/2010
21	CVD- Spin coating	Holmarc	1,43,175	31/12/2009
22	Ultracentrifuge	Thermo Fisher	21,79,892	03/04/2010
23	Ball Miller	Fritsch	7,12,354	30/03/2010
24	Microbalance	Shimadzu	4,59,420	03/12/2011
25	Water Distillation Unit	In house made	1,50,800	28/3/2009
26	DEEP FREEZER	Blue star	3,07,791	03/04/2013
27	CO2 -INCUBATOR	Panasonic	3,07,791	03/04/2013

CSE Department

S.No	Name of the equipment	Quantity	Value in Rs	Date of purchase
1	Desktop Computers – Dell	25	10,98,438	Feb 11, 2014
2	IBM Server for ICMR funded lab	1	1,40,000	Feb 11, 2014
3	Desktop Computers – Dell	2	60,000	Feb 11, 2014
4	LCD projectors – Sony	2	83,408	Mar 21, 2014

Department of Electrical and Electronics Engineering

S.No	Name of the equipment	Quantity	Value inRs.	Date of purchase
Electric Drives Laboratory				
1.	EZ DSP F28335 TMS 320F 28335 Studio Dev Kit	2	1,48,878	05/12/2013
2.	DC Regulated Variable Power Supply-0-30V,0-2 A	5	1,04,284	18/01/2014
3.	Single Phase Auto Transformers and Digital Multimeters	4	1,14,965	18/01/2014
4.	BLDC Motor With Mechanical Loading-1 HP-3A with DSP 2812	1	1,12,014	13/02/2014

	Trainer Kit			
5.	Computers (LENOVO)	3	85,500	02/07/2013
Electrical Machines Laboratory				
6.	Transformers and Loading Rheostats	2	1,04,045	15/12/2013
7.	Induction Motor , Alternator set and Digital speed Display Unit	1	1,25,692	19/12/2013
Electrical Workshop Laboratory				
8.	GW INSTRON DSO& Bridge Measurements Kit	3	1,21,205	01/03/2014
Power Electronics Laboratory				
9.	20 MHZ Power scope and EDA Meters	1	76,308	3/10/2013
Power Engineering Simulation Laboratory				
10.	LENOVO 18.5" Wide Monitors	20	5,70,000	3/10/2013
LIC Laboratory				
11.	IC Trainer Kits and Digital IC meters and Testers	6	1,26,498	11/10/2013

Chemistry Lab

Sl. No.	Name of the equipment	Make	Qty.	Amount
1.	Shimadzu Prestige 20 FT IR Spectrometer	Shimadzu	1	USD 18,500/-
2	Jasco FP8300 Spectrofluorometer	Jasco	1	Rs. 10.88 lakhs
3	JASCO FP 8200 Spectrofluorometer	JASCO	1	Yen 1,680,000/-
4	Jasco V650 UV-Visible Spectrophotometer	JASCO	1	Rs. 4.45 lakhs
5	1800 UV Spectrophotometer	Shimadzu	1	Rs. 1.60 lakhs
6	ATR Spectrophotometer	Shimadzu	1	USD 2335/-
7	Shimadzu LC 20AD HPLC	Shimadzu	1	USD 19,540/-

8	Shimadzu LC 20AD HPLC	Shimadzu	1	Rs. 10 lakhs
9	Shimadzu GC2010 Chromatography	Shimadzu	1	Rs. 12.71 lakhs
10	Grace X2 Flash Chromatography System	Grace	1	Rs. 9.96 lakhs
11	CH660 D Electrochemical Work Station	CH Instruments, Austin, USA	1	Rs. 9.21 lakhs
12	Electrochemical Workstation CH1660C	CH Instruments, Austin, USA	1	Rs.5.96 lakhs
13	Biodiesel Rancimat	Metrohm	1	CHF 24,990/-
14	Heidolf Roto-evaporator (with vacuum & chiller)	Heidolf	1	Euro 7,642/-
15	Rotary evaporator	Equitron	1	Rs.1.22 lakhs
16	Fume hood	Technico	1	Rs.2,10,290
17	Remi Tabletop Centrifuge (20000 rpm) ELMA Ultrasonicator (with heating)	Remi	1	Rs. 2.23 lakhs

SCHOOL OF CIVIL ENGINEERING

Sl. No.	Name of the equipment	Make	Cost Rs.	Date of purchase
1	Universal Triaxial Testing m/c	HEICO Hydraulic & Engg. Instruments, New Delhi - 28	101,801.00	21.12.1988
2	Universal Testing Machine	Fine Testing Machines, Miraj Pune	200,700.00	25.02.1989
3	Loading Frame (50T)	Assembled Unit	200,000.00	19.05.1997
4	Horizontal Shake table	Milenuium Technologies (I) Pvt. Ltd., Bangalore	9,99,999.00	15.02.2014

5	Computerised Universal Testing M/C	FIE Machines, Delhi	6,10,000.00	24.11.2004
6	Digital Load Cell	HEICO, New Delhi	4,55,625.00	03.06.2014
7	Computraised Torsion Testing Machine	APE Machines Pvt. Ltd., Coimbatore,	3,24,135.00	25.10.2013
8	Brinell Hardenest Testing Machine (Comp)	APE Machines Pvt. Ltd., Coimbatore,	2,97,675.00	04.09.2013
9	Fatigue Testing Machine (Digital)	APE Machines Pvt. Ltd., Coimbatore,	2,31,525.00	17.09.2013
10	Ultrasonic Concrete Tester	Testing Machines Care Centre, Coimbatore	2,24,437.00	15.02.2014
11	Raped Chloride Permeability Apparatus	APE Machines Pvt. Ltd., Coimbatore,	1,85,528.00	11.11.2013
12	Impact Testing Machine	Fine Testing Machines, Coimbatore	1,73,850.00	03.01.2012
13	Concrete Core Drilling Machine	American Bipe Benders & Co, Coimbatore	1,47,000.00	02.08.2013
14	Hand Operated Hydraulic Jack with Hand Pumb	AMIL Ltd., Chennai	1,06,442.00	17.01.2001
15	Venturi Flow Apparatus	Altech Engineering, Coimbatore	1,98,000.00	03.11.2011
16	Closed Circuit Pelton Wheel Turbin	Engineering Equipment Enterprises Pvt., Ltd., Coimbatore	1,39,009.00	19.12.2013
17	BOD Trak Apparatus	HACH, USA	125,000.00	24.03.2003
18	UV/Visible Spectrophoto Meter	CECIL, UK	448,240.00	24.03.2003
19	UTM 100T (TUE C-1000) (Computerized)	Fine Testing Machines, Miraj Pune	660,154.00	24.11.2004
20	Direct Shear Test	Concord Instruments	1,37,150.00	11.02.2013

		Pvt. Ltd, Chennai		
21	Auto Meter Compaction	Concord Instruments Pvt. Ltd	1,59,965.00	20.07.2013
22	Relative Density	Concord Instruments Pvt. Ltd	1,80,830.00	20.07.2013
23	Laminar Air Flow Cabinet	Technico, Chennai	1,27,690.00	29.06.2013
24	Orbital Shaking Incubator	Remi, Chennai	1,45,161.00	31.07.2013
25	Table Top H/S Cooling Centrifuge	Remi, Chennai	1,53,733.00	31.07.2013
26	Global Positioning Systems with Accessories Structures	SOKKIA Singapore Pvt. Ltd, Singapore	679,742.00	19.02.2004
27	Set 230R Reflectorless Total Station	SOKKIA Singapore Pvt. Ltd, Singapore	390,605.00	19.02.2004
28	Digital Cum Analog (CTM) 2000 KN Compressions Testing Machine	TMC, Chennai	1,99,500.00	03.01.2012
29	Impact Testing Machine	FIE, Chennai	1,73,850.00	03.01.2012
30	Direct Shear Apparatus	Concord Instruments Pvt. Ltd., Chennai.	1,37,150.00	13.02.2013
31	Total Station with Standard Accessories	SOKKIA Model – SET 05N	2,62,500.00	28.12.2012
32	Revit (Software)	KKM Soft (P) Ltd., Chennai	155,600.00	18.08.2006
33	PRIMAVERA 6-1 (Software)	CADD Centre Software Solutions Pvt. Ltd., Chennai	520,000.00	09.12.2008
34	Archi CAD R10(Software)	CADD Centre Software Solutions Pvt. Ltd., Chennai	2,05,400.00	10.11.2009
35	ArcGIS arc View 9.3 labkit pack (10 user pack)	CADD Centre Software Solutions Pvt.	4,40,000.00	15.03.2010

		Ltd., Chennai		
36	STAAD Pro.v8i (Software)	Engineering Software Mart, Choolaimedu, Chennai	5,10,000.00	09.08.2010

Department of Electronics and Media Technology

S. No.	Name of the Item	Qty	Cost in Rs.	Date of Purchase
1	DSR PD177 –P Camcorder	2	330000	30.09.2009
2	SE900 DVK Data Video chromo keying card	1	106667	03.08.10
3	47" LED TV	1	88400	08.12.2010
4	PD-177 SONY DSR CAMERA	1	172000	30.06.2010
5	Video Mixer Data Video HS600A	2	626850	07.12.2012
6	Data video HDR 45 RECORDER	2	239400	07.12.2012
7	SONY HXR -NX70P HD Camera(with accessories)	4	652444	07.12.2012
8	Desktop PC Apple IM AC(MDO95HN/A)	8	784760	30.05.2013
9	Desktop PC Apple IM AC(MDO96HN/A)	5	540475	30.05.2013

DEPARTMENT OF BIOTECHNOLOGY

Sl. No.	NAME OF THE EQUIPMENT	COST	MAKE	AVAILABLE LAB
1	Fluorescent Microscope	Rs. 111000	Lawerence mayo	Animal Tissue Culture Lab
2	CO ₂ Incubator	Rs. 280800	Eppendorf	Animal Tissue Culture Lab
3	Refrigerated Incubator cum shaker	Rs. 158164	Remi	Plant Tissue

				Culture Lab
4	UV. Vis Spectro photometer	Rs. 177970	Systronics	Genetic Engineering Lab
5	PCR (Mastercycler EP gradient)	€6250	Eppendorf	Genetic Engineering Lab
6	Refrigerated centrifuge 5417R	€5630	Eppendorf	Genetic Engineering Lab
7	Refrigerated centrifuge 5804	€3410	Eppendorf	Genetic Engineering Lab
8	Gel documentation unit	£ 5500	UVP	Genetic Engineering Lab
9	Milli-Q-water system	Rs. 400400	Millipore	Genetic Engineering Lab
10	orbital shaking incubator	Rs. 100360	Remi	BioChemical Engineering Lab
11	Fermentor	Rs. 515000	Lark	BioChemical Engineering Lab
12	Fermentor	Rs. 304500	Lark	BioChemical Engineering Lab
13	Refridgerated Centrifuge	€6730	Eppendorf	Research Lab
14	UV - Vis Spectrophotometer with Computer & Printer	Rs. 400000	Hitachi	Research Lab
15	Microscope with camera	Rs. 145949	Labomed	Research Lab
16	Deep Freezer -80°C	Rs. 630600	Sanyo	Project Lab
17	Elisa Microplate reader	Rs. 148050	Cyber Elisa R01	Project Lab
18	Double Distillation Unit	Rs. 174096	Rivera	Project Lab
19	Microscope (inverted)	Rs. 595000	EVOS XL Core	Project Lab
20	Phase Contrast Tissue Culture Microscope	Rs. 103600	Lawrence Mayo	Microbiology Lab
21	Penta Head Microscope	Rs. 134939	Lawrence Mayo	Microbiology Lab
22	Binocular Microscope	Rs. 145000	Olympus-CX31	Microbiology Lab

Department of Physics

S.No	Equipment	Make	Qty.	Cost in Rs.	Date of purchase
1	Spin Coater	HOLMARC	1	1,43,175	30-11-2009
2	Spray Pyrolysis Equipment	HOLMARC	1	3,25,710	30-11-2010
3	Soleil Babinet Compensator	Thor Labs	1	2,15,703	07-05-2004
4	Impedance Analyser4192A	HP	1	3,50,181	8/6/2005
5	Vacum Coater 12A4D	Hind Hivac	1	4,27,849	29-02-2008
6	Vacum Coater 12A4D	Hind Hivac	1	5,78,347	29-06-2013
7	Ultrasonic Processor	Oscar	1	1,01,250	22-09-2011
8	Sputtering Unit	Vacutech System	1	2,85,860	26-09-2011
9	Tubular Furnance	Technico	1	1,04,233	27-12-2012
10	Rheometer	Brookfield	1	3,59,885	29-01-2013
11	Thermal properties Analyser	Decagon	1	3,38,561	11-01-2013
12	Electrochemical Workstation 13-032013	CH-Instruments	1	5,49,043	13-032013
13	Glove box	Plas lab	1	8,84,561	6.1.2014