ANNEXURE - I

LIST OF MAJOR EQUIPMENTS/FACILITIES LAB WISE

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Summary of Computer Systems in CS&E Department

S.No	Make	Number
1	HCL Infinity Pro BL 1065	09
2	HCL Infinity Pro BL 1070	07
3	COMPAQ Deskpro workstation	15
4	IBM NETVISTA A60	02
5	HP DX 7200	33
6	HP DX 6120	01
7	HP DX 5150	39
8	WIPRO Super Genius 10000 Series	01
9	HP ompaq 2210 B LAPTOP	01
	Total	**108**

A. Systems & Peripherals

S.No.	Name of Equipment	Make	Specification	Qty.	IDs
1	**Computer Systems**	HCL Infinity Pro BL 1065	P-IV 1.7 GHz, 845 GL M/B, 128 MB DDR RAM, 52X CDR1.44 FDD, 40 GB HDD, 15" Colour Monitor, Keyboard, Mouse, Multimedia Kit	09	MBS/CSE/ BASIC-LAB/ SYS-01 To MBS/CSE/ BASIC-LAB/ SYS-30
		HCL Infinity Pro BL 1070	P-IV 1.7 GHz, 845 G M/B, 32 MB AGP Card, 128 MB DDR RAM, 52X CDR1.44 FDD, 40 GB HDD, 15" Colour Monitor, Keyboard, Mouse, Multimedia Kit	07	
		COMPAQ Deskpro workstation	Intel P-IV 1.5 GHz, Intel 850 Chipset, 128 MB RD RAM, 20 GB HDD, 48X CDR, 1.44 MB FDD, 15" Colour Monitor, Keyboard, Mouse	15	
			Total	**31**	

B. Other Equipment

S.No.	Name of Equipment	Make	Specification	Qty.
1	**UPS**	1. Power Mac 2. HP 3000 Numeric	3 KV 3 KV	01 02
2	**Batteries**	1. Titanic 2. Panasonic	(Tubular Batt.) 12 V (Dry Batt.) 12 V / 28 AH	05 16
3	**AC**	Voltas	1.5 Ton	03
4	**AC Stabilizer**		5 Kva	02
5	**AC**	Samsung	1.5 Ton	01

C. Networking Components

S.No.	Name of Equipment	Make	Specification	Qty.
1	Switch	1. D-Link 2. SURECOM	8 Port Unmanaged 24 Port Unmanaged	01 01
2	Patch Panel	1. D-Link 2. D-Link	12 Port 24 Port	01 01
3	Information Outlet	D- Link	Wall Jacket	28
4	Wall mountable Rack	COM RACK	Cap 6 Unit	01

D. Softwares Installed

S.No.	Description of Software/Package
1	MS- Office 2003
2	Windows Xp Operating System
3	Build 2600 SP2
4	Turbo C / C ++
5	COBOL
6	Fortran77
7	QBasic
8	Anti Virus Mcaffee 8i Full Version

E. Furniture Details

S.No.	Description of Furniture	Qty.
1	Round Tables counter	02
2	Revolving chairs computer	58

F. Other Accessories

S.No.	Description	Qty.
1	White board 3’ x 6’	02
2	Curtains	15
3	Tube lights	11
4	Ceiling fan	08
5	Wall clock(quartz)	01
6	Dustbin	01
7	Doormat	01

LIST OF EQUIPMENT IN ADVANCE COMPUTER LAB.
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

A. Systems & Peripherals

S.No.	Name of Equipment	Make	Specification	Qty.	IDs
1	**Computer Systems**	HP P-IV DX 7200	Intel P-IV 3.0 GHz, Intel 945 M/B,256 MB DDR2 RAM, 80GB HDD, 52X CDR, 1.44 FDD, USB Op. Mouse, HP PS2 STD Keyboard	32	MBS/CSE/ ADV-LAB /SYS-31 To MBS/CSE/ ADV-LAB /SYS-66
		HP DX 5150	AMD Athlon-64, 52x CDROM, 80GB HDD, 17" SVGA Colour Monitor, 1.44 FDD, Op. Mouse, Keyboard	02	
		IBM NETVISTA A60	Intel P-IV 1.3 GHz, Intel 850 Chipset, 128 MB RDRAM, 20GB HDD, 48X CDR, 15" Colour Monitor, Keyboard, Mouse, Speakers	02	
			Total	**36**	
2	**Printer**	TVS MPS 245	32 column	01	
3	**Multimedia Projector**	SHARP MULTIMEDIA PROJECTOR XR-105	Model XR-105, 2000 Lumens SVGA, 3000 hours lamp life, Contrast Ratio 2000:1	01	

B. Other Equipment

S.No.	Name of Equipment	Make	Specification	Qty.
1	**UPS**	HP Numeric 3000 Series Digital	3 KVA	03
2	**Batteries**	Panasonic	12 Volts 28 AH	24

C. Networking Components

S.No.	Name of Equipment	Make	Specification	Qty.
1	Switch	1.D-Link 2.D-Link	16 Port Unmanaged 24 Port Unmanaged	01 01
2	Patch Panel	D-Link	24 Port	02
3	Patch Cord / Cable	D-Link	Cat 5 UTP cable	76
4	Information Outlet	D-Link	Wall Jacket	36
5	Wall mountable Rack	COM RACK	Cap 6 Unit	01

D. Softwares Installed

S.No.	Description of Software/Package
1	MS- Office 2003
2	Windows Xp Operating System
3	Build 2600 SP2
4	Turbo C / C ++
5	COBOL
6	Fortran77
7	QBasic
8	Anti Virus Mcaffee 8i Full Version
9	VB .Net
10	Oracle 9i

E. Furniture Details

S.No.	Description of Furniture	Qty.
1	Revolving Chairs without arms	34
2	Plastic Chairs with arms	10

F. Other Accessories

S.No.	Description	Qty.
1	Curtains	16
2	Wall Clock	01
3	Tube lights	05
4	Ceiling Fans	08

LIST OF EQUIPMENT IN R & D LAB.
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

A. Systems & Peripherals

S.No.	Name of Equipment	Make	Specification	Qty.	IDs
1	**Computer Systems**	HP DX 5150	AMD Athlon-64, 52x CDROM, 80GB HDD, 17" SVGA Colour Monitor, 1.44 FDD, Op. Mouse, Keyboard	30	MBS/CSE/ R&DLAB/ SYS-67 To MBS/CSE/ R&DLAB/ SYS-96
			Total	**30**	

Note: This Lab is yet to be made operational as the tenders for UPS have already been advertised and are under process.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

LIST OF LABORATORIES

S.No.	Name of Laboratory
1.	Analog Lab.
2.	Digital Electronics Lab.
3.	Microprocessor Lab.
4.	EMI Lab.
5.	Microwave Lab.
6.	Communication Lab.
7.	New Software Lab.
8.	Electronics Workshop

DETAILS OF MAJOR LAB. EQUIPMENTS

S. No.	Name of the Lab.	Area
1	Analog Lab.	120 sq m

S. No.	Equipment with specifications	Quantity	Remarks
1.	Aplab 3 MHz Function / Pulse Generator, Model – 2104	2	
2.	Aplab 1Hz to 1 MHz Low distortion Sine / Square wave Signal Generator	9	
3.	Aplab 140 mm, 30 MHz Dual trace Oscilloscope	10	
4.	Aplab Regulated Bench ½ Rach Adaptable Power supply 0-32 V / 1 A, Model No. L3201	2	
5.	Power Project Board Model – GEI -127	8	
6.	Power Supply D.C Dual Range O/P 0-30V, 0-5A	4	
7.	Dual Power D.C supply (0-30v) / 0-1A with four meters	5	
8.	Digital storage oscilloscope TDS 1012 with probes power card	1	
9.	Education charts	5	

S. No.	Name of the Lab.	Area
2	Digital Electronics Lab.	120 sq m

S. No.	Equipment with specifications	Quantity	Remarks
1.	Power supply D.C. Dual Range output (0-30V) 0-5A	10	
2.	Digital Multimeter, Model 9A	12	
3.	Digital Multimeter, Model 23SMKII	9	
4.	3 MHz Function Generator, Model – 2009	3	
5.	1MHz sine / square wave, generator, Model – 2014	6	
6.	20 MHz Dual Trace Oscilloscope, Model – 33058	9	
7.	Digital storage oscilloscope TDS-1002	2	
8.	Portable Digital IC tester	2	
9.	Analog Linear IC tester	1	
10.	Solderless Bread Board, Model GEI – 106	8	
11.	Moving Coil DC Educational Desk meter Model MR 100cm, Range (0-1000)ma, (0-10)ma, (0-30)ma, (0-1)ma	 5 5 5 5	
12.	Moving coil D.C Educational Desk Meter Model MR 100 EDM Range (0-1v DC) (0-2V) (0-10V) (0-30V)	 5 4 4 4	
13.	Analog Multimeter Sanwa – P3	15	
14.	Aplab 10:1 switchable 60 MHz Probes Oscilloscope, Model 36	10	
15.	Digital Multimeter Unity – UNI-T, Model DT 830 D & DT 830B	25	
16.	Educational charts	05	
17.	Bread Board (GEI – 102)	60	
18.	Bread Board Model GEI – 103	20	
19.	Plier	12	
20.	Digital Multimeter (ORPAT ODM -100)	06	

S. No.	Name of the Lab.	Area
3	Microprocessor Lab.	120 sq m

S. No.	Equipment with specification	Quantity	Remarks
1.	Microprocessor kit 8085, Expo 85 kit, 4 line display, key board, Accer and power supply (SMPS type) complete	10	
2.	8085 Microprocessor trainer kit with LCD display and inbuilt power supply, Model No. VMC – 8509P	5	
3.	Microporcessor kit 8086, Expo, 85 kit, 4 line display, key board accer and power supply SMPS type.	10	
4.	Stepper motor with card	2	
5.	Computer system, Intel Celeron 850 MHz, 40 GB HDD, 64 MB, RAM 1.44 MD FDD, 52XCD ROM drive with full multimedia speakers. Intel modem (motorola chip sets) 14" SVGA colour monitor (LG) scroll mouse with pad., key board with 98 PL, offered 2000PL, NAV5 PL.	3	
6.	UPS 0.5 KVA	3	
7.	Computer : Intel Celeron – 1.7 GHz, 40 GB HDD, 128 MB RAM, 1.44 MB FDD, NI card 15", SVGA monitor, scroll mouse and key board, UPS & CDROM	2	
8.	Computer system: Intel Celeron 1.7 GHZ, 40 GB HDD, 128 MB RAM, N Interface Card, 15" SVGA Monitor, Scroll mouse and keyboard CDROM, UPS.	3	
9.	CDR/W DRIVE (LG) (Installed in Computer systems ID.No. S-7)	1	
10.	8-Port cascadable N/W switch	1	
11.	Printer S 200 SPX	1	
12.	Promotional programmer, Model FP – 8903	1	
13.	Hp scanjet 2400 (digital flat bed) scanner S.No. CN 625 SR29Z with accessories 1) USB cable – 1 2) External power adaptor – 1 3) User's manual 4) Set-up poster – 1 5) CD – 1	1	

S. No.	Name of the Lab.	Area
4	EMI Lab.	80 sq m

S. No.	Equipment with specification	Quantity	Remarks
1.	Scientific 30 MHz Oscilloscope, Model HM 203G	3	
2.	Scientific 30 MHz oscilloscope Model HM 203M	3	
3.	Scientific 3 MHz, function generator with counter, Model SM 5071	3	
4.	3 MHZ function generator W.O counter	4	
5.	Digital storage oscilloscope TDS 1002	1	
6.	Temperature measurement tutor using thermocouple	2	
7.	Pressure measurement tutor using pressure transducer	2	
8.	Digital tachometers	2	
9.	Water level measurement tutor using water level transducer / sensor	2	
10.	Displacement measurement tutor using LVDT	1	
11.	Strain measurement tutor using S. cantilever beam	1	
12.	Demonstration set up for LVDT	1	
13.	Demonstration set up for strain gauge	1	
14.	CRO trainer kit, 20 MHz scientech, ST 2001 E	2	

S. No.	Name of the Lab.	Area
5	Microwave Lab.	80 sq m

S. No.	Equipment with specification	Quantity	Remarks
1.	Microwave Test Bench MT 9000 including following parts:		
a.	Klystron power supply	1	
b.	Klystron Mounted tube	1	
c.	Isolator	1	
d.	Frequency Meter	1	
e.	Variable Attenuator	1	
f.	Slotted section	1	
g.	Tunable Probe	1	
h.	Detector Mount	1	
i.	Movable short	1	
j.	Matched termination	1	
k.	W/H stand	5	
l.	S.S. Tuner	1	
m.	Cooling Fan	1	
n.	BNC Cord	2	
o.	Main Cord	2	
2.	Microwave Test Bench Model MT 9004 including following parts:		
a.	Gunn Power supply	1	
b.	Gunn Isolator	1	
c.	PIN Modulator	1	
d.	Isolator	1	
e.	Frequency Meter	1	
f.	Variable Attenuator	1	

g.	Slotted section	1	
h.	Detector Mount	1	
i.	Movable short	1	
j.	Matched termination	2	
k.	W/H stand	5	
l.	VSWR Meter	1	
m.	Fixed Attenuator 3 dB	1	
n.	Fixed Attenuator 6dB	1	
o.	Fixed Attenuator 10dB	1	
p.	Variable Attenuator	1	
q.	E-Plane Tee	1	
r.	H – Plane Tee	1	
s.	Magic Tee	1	
t.	Directional coupler 3 dB	1	
u.	Directional Coupler 10 dB	1	
v.	Cross directional 20 dB	1	
w.	T and Y circulator	1 each	

S. No.	Name of the Lab.	Area
6	Communication Lab.	120 sq m

S. No.	Equipment with specification	Quantity	Remarks
1.	AM/FM Signal generator with BNC-BNC, 75 OHM Termination Main CORD	3	
2.	Amplitude Modulation & Demodulation kit with power supply	3	
3.	Distortion and level meter with BNC-BNC-CROC, M-Cord	2	
4.	Colour T.V. Dynamic Demonstrator	1	
5.	Pulse generator kit	2	
6.	Field strength / field level (dB meter)	2	
7.	Frequency Modulation & Demodulation kit with power supply	3	
8.	Stereo cassette Dynamic Demonstrator cum trainer	2	
9.	Tape Recorder Dynamic Demonstrator	2	
10.	Turnstile Antenna with Angular M measurement – (Booster)	1	
11.	Microvac T.V. Pattern Generator Model SDC – 1088 B/W	1	
12.	Microvac T.V. Pattern Generator Model SDC – 1089 colour	1	
13.	Sigma pulse amplitude / pulse width / pulse position modulation / demodulation system trainer kit, Model COM-208	2	
14.	Sigma AM transmitter kit, Model – COM 305	1	
15.	Sigma mixer – F1 – AGC AM Detector kit Model COM-303	1	
16.	Sigma 3-Band Radio receiver trainer Model RDM – 100	2	
17.	FM Detector phase modulation kit	1	
18.	Pulse code modulation transmitter and receiver kit	2	
19.	Digital Storage Oscilloscope TDS 1012	1	
20.	Dish 8 feet complete with dish, LNB, feed Horn (20 mtr wire)	2	
21.	PAM, PPM, PWM trainer FALCON Brand with power supply and cords.	2	

S. No.	Name of the Lab.	Area
7:	New Software Lab.	120 sq m

S. No.	Equipment with specification	Quantity	Remarks
1	Computer system including monitor, CPU keyboard, mouse	10	

S. No.	Name of the Lab.	Area
8:	Electronics workshop	40 sq m

S. No.	Equipment with specification	Quantity	Remarks
1.	Battery 19 plates 12V	1	
2.	Variac (0-250V)	1	
3.	Inverter	1	
4.	Stabilizer 5 KVA	6	
5.	Drill Machine	1	
6.	Soldering Iron 65 W, 125W	2	
7.	Hand drill machine	1	
8.	Equipment testing board	1	

DEPARTMENT OF INFORMATION TECHNOLOGY ENGINEERING

List of Laboratories

- Basic I.T Lab
- Advanced I.T Lab
- Project Lab

List Of Equipments in Basic I.T Lab

S.No.	Equipment	Total No.	Configuration
1.	HP Systems	14	P-IV, 80 GB SATA HDD,256 MB RAM,52X CDROM,1.44 MB FDD,15" color monitor
2.	HCL Systems	04	P-IV 1.7GHz, 40 GB HDD, 128 MB RAM,52X CDROM, 1.44 MB FDD,15" color monitor
3.	WIPRO System	01	P-IV ,40 GB HDD, 128 MB RAM,52X CDROM, 1.44 MB FDD,14" color monitor
4.	IBM System	01	P-IV ,10 GB HDD, 128 MB RAM,52X CDROM, 1.44 MB FDD,14" color monitor
5.	VINTRON Servers	01	P-III 450MHz, 10 GB (SCSI) HDD,40X CDROM, 1.44 MB FDD, 14"color monitor,2-serial 2-parallel,USB ports,100Mbps Ethernet card
5.	Assembled(P-IV) Systems	02	P-IV ,40 GB HDD, 64 MB RAM,52X CDROM, 1.44 MB FDD,14" color monitor
6.	Assembled(P-II) Systems	13	P-II 350 MHz ,20 GB HDD,(32/64 MB RAM),52X CDROM,1.44MB FDD,14"color monitor
10.	Dlink Switches	03	16 port-1 24 port-2
11.	Dlink Access Point	01	__
12.	Laser Printer	01	__
13.	Scanner	01	__

List of Equipments in Advance IT Lab

S.No.	Equipment	Total No.	Configuration
1.	HCL Systems	26	P-IV 1.7 GHz, 40 GB HDD,128 MB RAM,52X CDROM,1.44 MB FDD,15" color monitor
2.	Server	01	Model No-7225
3.	UPS(Synergy Make)	01	25 KW, 12V 26AH Exide Batteries
4.	Patch Panel	01	24 port-1
5.	Gateway	01	Directway Transmeter & Reciever
6.	Switch	02	24 port-1 16 port-1
7.	Wall mountable rack	01	6 U

List Of Equipments in Project Lab

S.No.	Equipment	Total No.	Configuration
1.	HP Systems	25	P-IV 3.00 GHz, 80 GB HDD,256 MB RAM,52X CDROM,1.44 MB FDD,15" color monitor
2.	Dlink Switches (16 port)	01	16 port
3.	Dlink Access Point	01	—
4.	Projector (Infocus)	01	Lumens 1700

DEPARTMENT OF MECAHNICAL ENGINEERING

LIST OF LABS IN MECHANICAL ENGINEERING DEPARTMENT.

1. **Mechanics of solids lab.**
2. **Fluid Mechanics lab.**
3. **Metallurgy and Material Science Lab.**
4. **Heat Transfer lab.**
5. **Theory of Machine lab.**
6. **Engineering Mechanics lab.**
7. **Engineering Thermodynamics lab.**
8. **Automobile Engineering Lab**
9. **CAD/CAM & CNC lab.**
10. **Metrology Lab**
11. **Drawing Halls**
12. **Central workshop.**
    - **Carpentry shop.**
    - **Machine shop.**
    - **Blacksmith shop**
    - **Sheet Metal shop.**
    - **Welding and Metal joining shop**
    - **Foundry shop.**

DETAIL OF LAB EQUIPMENT

Mechanical Engineering Department

Lab-1: Mechanics of Solids (Area-152m^2)

S.No.	Name of Equipment with specification	Qty.	Date of Purchase	Functioning/ Not Functioning	In use/Not in Use
1	Universal Testing Machine, 100t Capacity Model	01	03.01.01	Functioning	In Use
2	Torsion Testing Machine, 50Kg-m Capacity	01	19.12.00	-do-	-do-
3	Impact Testing Machine for Izod and charpy test	01	4.6.02	-do-	-do-
4	Rockwel Hardness Tester	01	9.5.03	-do-	-do-
5	Brinnel Hardness Tester	01	15.3.02	-do-	-do-
6	Vicker cum Brinnel Hardness Tester	01	29.12.00	-do-	-do-

DETAIL OF LAB EQUIPMENT

Mechanical Engineering Department

Lab-2: Fluid Machanics (Area-195m^2)

S.No.	Name of Equipment with specification	Qty.	Date of Purchase	Functioning/ Not Functioning	In use/Not in Use
1	Metacentric Height of ship model Apparatus	01	19.4.02	Functioning	In Use
2	Renolds Apparatus	01	19.4.02	-do-	-do-
3	Flow over Notch Apparatus	01	19.4.02	-do-	-do-
4	Hydraulic Bench	01	19.4.02	-do-	-do-
5	Flow Orific and mouth piece Apparatus	01	19.4.02	-do-	-do-
6	Bernoullies Apparatus	01	19.4.02	-do-	-do-
7	Venture meter and orifice meter Apparatus	01	19.4.02	-do-	-do-
8	Adjustable channel	01	19.4.02	Functioning	In Use
9	Pipe friction Apparatus	01	19.4.02	-do-	-do-
10	Losses in pipe friction	01	19.4.02	-do-	-do-
11	Hydraulic Ram	01	09.10.02	-do-	-do-
12	Impact of jet on vanes	01	10.09.02	-do-	-do-
13	Centrifugal pump Test Rig (Multi speed) for parallel and series operation	01	16.12.02	-do-	-do-
14	Pelton wheel Turbine	01	16.12.02	-do-	-do-
15	Francis Turbine Test Rig	01	16.12.02	-do-	-do-

S.No.	Name of Equipment with specification	Qty.	Date of Purchase	Functioning/ Not Functioning	In use/Not in Use
16	Kaplan Turbine Test Rig	01	16.12.02	Functioning	

DETAIL OF LAB EQUIPMENT

Mechanical Engineering Department

Lab-3: Metallurgy and Material Sciences (Area-104m^2)

S.No.	Name of Equipment with specification	Qty.	Date of Purchase	Functioning/ Not Functioning	In use/Not in Use
1	Monocular metallurgical Microscopes	01	26.11.01	Functioning	In Use
2	Binocular Metallurgical Microscope	01	27.11.00	-do-	-do-
3	Trinocular Metallurgical Microscope	01	27.11.00	-do-	-do-
4	Inverted Binocular Metallurgical Microscope	01	27.11.00	-do-	-do-
5	Belt Grinder	01	27.11.01	-do-	-do-
6	Sample Dryer	02	27.11.01	Functioning	In Use

S.No.	Name of Equipment with specification	Qty.	Date of Purchase	Functioning/ Not Functioning	In use/Not in Use
7	Polishing Machine	01	27.11.01	-do-	-do-
8	Sample Mounting Press	01	3.4.02	-do-	-do-

DETAIL OF LAB EQUIPMENT

Mechanical Engineering Department

Lab-4: Heat Transfer (Area-116m^2)

S.No.	Name of Equipment with specification	Qty.	Date of Purchase	Functioning/ Not Functioning	In use/Not in Use
1	Thermal conductivity of Insulating powder apparatus	01	29.06.02	Functioning	In Use
2	Thermal conductivity of liquids apparatus	01	29.6.02	-do-	-do-
3	Emissivity Measurement Apparatus	01	29.06.02	-do-	-do-
4	Stefan Beltzman Apparatus	01	29.06.02	-do-	-do-
5	Composite wall Apparatus	01	29.06.02	-do-	-do-
6	Gaurded hot plate Apparatus	01	29.06.02	-do-	-do-
7	Pin – Fin Apparatus	01	29.06.02	-do-	-do-
8	Forced Convection Apparatus	01	29.06.02	-do-	-do-

9	Parallel/ Counter flow Heat Exchanger Apparatus	01	29.06.02	-do-	-do-
10	Water Cooling Tower Apparatus	01	29.06.02	-do-	-do-

DETAIL OF LAB EQUIPMENT

Mechanical Engineering Department

Lab-5: Theory of Machine (Area-116m^2)

S.No.	Name of Equipment with specification	Qty.	Date of Purchase	Functioning/ Not Functioning	In use/Not in Use
1	Cam Models	05	24.06.02	-do-	-do-
2	Single stage Bevel Gear	01	24.06.02	-do-	-do-
3	Corolli's component of Acceleration	01	-do-	-do-	-do-
4	Universal governor	01	-do-	-do-	-do-
5	Epicyclic gear train and torque holding Apparatus	01	-do-	-do-	-do-
6	Static and Dynamic balancing Apparatus	01	-do-	-do-	-do-
7	Gyroscope	01	-do-	-do-	-do-
8	Gear Tooth Profile Apparatus	01	-do-	-do-	-do-
9	Whirling of shaft Apparatus	01	-do-	-do-	-do-
10	Different Plastic Model	32	-do-	-do-	-do-

DETAIL OF LAB EQUIPMENT

Mechanical Engineering Department

Lab-6: Engineering Mechanics (Area-116m^2)

S.No.	Name of Equipment with specification	Qty.	Date of Purchase	Functioning/ Not Functioning	In use/Not in Use
1	Single purchase winch crab	01	27.1.00	Functioning	In Use
2	Simply supported Beam	01	-do-	-do-	-do-
3	Screw Jack	01	-do-	-do-	Not In Use
4	Double Purchase winch crab	01	-do-	-do-	In Use
5	Differential Pulley Block	01	-do-	-do-	-do-
6	Worm & Warm Wheel	02	25.7.03	-do-	-do-
7	Whirling Table	01	27.01.00	-do-	Not In Use
8	Polygon force apparatus	01	-do-	-do-	In Use
9	Pulley system with stand (single, double, triple)	03	27.01.00	Functioning	Not in Use
10	Universal force apparatus	01	-do-	-do-	-do-
11	Inclined Plane	02	-do-	-do-	In Use
12	Flywheel	03	-do-	-do-	-do-
13	Flexure Trolley	01	-do-	-do-	Not in Use
14	Jib Crane apparatus	01	-do-	-do-	In Use
15	Bending Moment Apparatus	02	-do-	-do-	-do-
16	Bell Crank lever	01	-do-	-do-	Not In Use
17	At wood Mechanism	01	-do-	Not Functioning	Not In Use
18	Young Modulus Apparatus	01	-do-	-do-	-do-
19	Parallelogram law apparatus	02	-do-	Functioning	In Use

DETAIL OF LAB EQUIPMENT

Mechanical Engineering Department

Lab-7: Engineering Thermodynamics (Area-154m^2)

S.No.	Name of Equipment with specification	Qty.	Date of Purchase	Functioning/ Not Functioning	In use/Not in Use
1	Separating & Throttling calasimeter	01	28.12.00	Functioning	In Use
2	Two stage air compressor	01	28.02.01	-do-	-do-
3	Bomb Calorimeter	01	24.01.01	-do-	-do-
4	Vapour Absorption Refrigerator	01	28.02.01	-do-	-do-
5	Orsat gas Analyser	01	28.12.00	-do-	-do-
6	Boiler Cum Steam Turbine Test Rig	01	08.08.02	-do-	-do-
7	Air Conditioning Test Rig	01	-do-	-do-	-do-
8	Refrigeration Test Rig	01	-do-	-do-	-do-

DETAIL OF LAB EQUIPMENT

Mechanical Engineering Department

Lab-8: Automobile (Thermal) (Area-250m^2)

S.No.	Name of Equipment with specification	Qty.	Date of Purchase	Functioning/ Not Functioning	In use/Not in Use
1	Different type of Brake Models	06	24.06.02	Functioning	In Use
2	Two and Four stroke Engine Models (Diesel & Petrol)	04	-do-	-do-	-do-
3	Differential Model	01	-do-	-do-	-do-
4	Gear Box	01	-do-	-do-	-do-
5	Clutch Models	01	-do-	-do-	-do-
6	Steering Mechanism	01	-do-	-do-	-do-
7	Six cylinder Diesel Engine with Major Automobile parts	01	-do-	-do-	-do-
8	Four Stroke Diesel Engine of Mini Bus with Chasses (305)	01	-do-	-do-	-do-
9	TATA – 1210 (4/2, six cylinder Diesel Engine)	01	-do-	-do-	-do-

DETAIL OF LAB EQUIPMENT

Mechanical Engineering Department

Lab-9: CAD/CAM/CNC (Area-116m^2)

S.No.	Name of Equipment with specification	Qty.	Date of Purchase	Functioning/ Not Functioning	In use/Not in Use
1	XL Mill With 6 Station Automatic Tool changer General specifications spindle speed: 40.4000rpm Rapid Traverse Rate: - 1000 mm/min. Programmable Feed : 1000mm/min Axis Travel : X-190mm , Y-110mm Z – 115mm. System Resolution : 0.01mm Table Dimensions : 360x130mm Softwares : Offline & Online	01	25.3.04	Functioning	In Use
2	CAD Lab; HP, Personal Computer,Pentium-4,3GHz,256RAM	14	-	-do-	-do-
3	On Line 3 KVA UPS system Model ADS 3000 With SMF (30Min Backup)	01	16.3.04	-do-	-do-
4	Air Compressor (single stage) (120-180Lts.) With A.C. Motor Auto control Switch Samson F.R.L.	01	22.3.04	-do-	-do-

DETAIL OF LAB EQUIPMENT

Mechanical Engineering Department

Lab-10: Metrology Lab (Area-116m^2)

S.No.	Name of Equipment with specification	Qty.	Date of Purchase	Functioning/ Not Functioning	In use/Not in Use
1.	Mitutoyo make Vernier Calipers, Range- 0-300mm, L.C – 0.02mm, Accuracy- ±0.04mm	01	27.04.07	Functioning	In use
2.	Mitutoyo make Digimatic Calipers Range-0-300mm, L.C-0.01mm,Accuracy- ±0.0015”	01	27.04.07	Functioning	In use
3.	Mitutoyo make Vernier Height Gauges Range:0-300mm, L.C – 0.02mm, Accuracy- ±0.002”	01	27.04.07	Functioning	In use
4.	Mitutoyo make Digital Counter type Dial Height Gauges, Range :0-300mm, L.C-0.01mm, Accuracy- ±0.03mm	01	27.04.07	Functioning	In use
5.	Mitutoyo make Vernier Depth Gauges Range-0-200mm, L.C-0.02mm,Accuracy- ±0.03mm	01	27.04.07	Functioning	In use
6.	Gear Tooth Caliper China Make Range: 1-26mm	01	27.04.07	Functioning	In use
7.	Mitutoyo make Outside Micrometer Range: 0-25mm, L.C:-0.01mm	01	27.04.07	Functioning	In use
8.	Mitutoyo make Outside Micrometers Range:- 25-50mm, L.C:-0.01mm,Accuracy: ±2µm	01	27.04.07	Functioning	In use
9.	Mitutoyo make Tubular inside Micrometer Range – 50-150mm, L.C-0.01mm,	01	27.04.07	Functioning	In use
10.	Mitutoyo make Bore Gauge	01	27.04.07	Functioning	In use

	with Standard Dial Indicator Range: 50-150mm, L.C. : 0.01mm				
11.	Mitutoyo make Universal Bevel Protractor, Range-150-300mmL.C-5min. (0^0-90^0-0^0)	01	27.04.07	Functioning	In use
12.	Mitutoyo make Combination Square Sets Range :12”/300mm	01	27.04.07	Functioning	In use
13.	Mechanical comparators Mahar German make with suitable stand L.C. : 0.001mm	01	27.04.07	Functioning	In use
14.	Sin Bar, Range: 200mm	01	27.04.07	Functioning	In use
15.	Mitutoyo make Metric Rectangular Gauge Block Sets 1mm base, Grade “1”-Steel (87 pcs)	01 (Set)	27.04.07	Functioning	In use
16.	JAFUJI make Granite Surface Plate Grade “0” with Calibration Certificate, Size: 630 X 630mm	01	27.04.07	Functioning	In use
17.	Mitutoyo make Dial Indicator Range-10mm,L.C-0.01mm, Accuracy: ±13µm	01	27.04.07	Functioning	In use
18.	JAFUJI make Magnetic Base	01	27.04.07	Functioning	In use
19.	JAFUJI Make Magnetic stand with fine adjustment	01	27.04.07	Functioning	In use
20.	JAFUJI make V-Block Hardened with Clamp, Size: 100X80X80mm	01 (pair)	27.04.07	Functioning	In use
21.	Mitutoyo make Metric Screw Pitch Gauges Range: 0.35-6mm, (22leaves)	01	27.04.07	Functioning	In use
22.	JAFUJI-WYLER make Precision Spirit Level SIZE:150X0.02mm/M	01	27.04.07	Functioning	In use
23.	Steel Scale Kristeal make,SIZE:300/12”	01	27.04.07	Functioning	In use
24	Steel Tape 3Mtr. FREEMAN	01	27.04.07	Functioning	In use
25.	Radius Gauge Range:-1-10mm	01	27.04.07	Functioning	In use
26.	Radius Gauge Range:-10-25mm	01	27.04.07	Functioning	In use

DETAIL OF LAB EQUIPMENT

Mechanical Engineering Department

Lab: Drawing Halls (2No.s)

S.No.	Name of Equipment with specification	Qty.	Date of Purchase	Functioning/ Not Functioning	In use/Not in Use
1	Drawing Boards with Stands	60X2	-	**Functioning**	**In use**
2	Models	20	-	-do-	-do-
3	Wooden Almirrah	04	-	-do-	-do-
4.	Display Charts	20	-	-do-	-do-

DETAIL OF LAB EQUIPMENT
Mechanical Engineering Department
Lab: Carpentry Shop

S.No.	Name of Equipment with specification	Qty.	Date of Purchase	Functioning/ Not Functioning	In use/Not in Use
1.	Portable Drills	02	08-02-05	-do-	-do-
2	Mortising Machine	01		-do-	-do-
3	Adda Lathe	01	13-12-04	-do-	-do-
4	Sanding Machine	01	13-12-04	-do-	-do-
5	Wood Turning Lathe	01	08-02-05	-do-	-do-
6	Band Saw	01		-do-	-do-
7	Circular Saw	01	13-12-04	-do-	-do-
8	Thickness Planner	01	13.12.04	-do-	-do-
9	Univ. carpentry M/C	01		-do-	-do-
10	Jigsaw Machine	01	19.10.05	-do-	-do-
11	Portable Drill M/C	01	19.10.05	-do-	-do-

DETAIL OF LAB EQUIPMENT
Mechanical Engineering Department
Lab: Machine Shop

S.No.	Name of Equipment with specification	Qty.	Date of Purchase	Functioning/ Not Functioning	In use/Not in Use
1.	Centre Lathes	04	23.3.01	Functioning	In Use
2	Lathe (10" – Norton G.B.)	01	8.2.05	-do-	-do-
3	Lathe (12")	01	-do-	-do-	-do-
4	Shaper	01	23.3.01	-do-	-do-
5	Milling Machine	01	8.2.05	-do-	-do-
6	Planner	01	23-03-01	-do-	-do-
7	Surface Grinder	01	08-02-05	-do-	-do-
8	Power Hacksaw	01	08-02-05	-do-	-do-
9	Drilling machine	02	08-02-05	-do-	-do-

DETAIL OF LAB EQUIPMENT

Mechanical Engineering Department

Lab: Black Smithy & Sheet Metal Shop

S.No.	Name of Equipment with specification	Qty.	Date of Purchase	Functioning/ Not Functioning	In use/Not in Use
1.	Power Press	01	6.1.01	-do-	-do-
2	Sheet Bending Machine (8 ft bed)	01	6.1.01	-do-	-do-
3	Sheet shearing Machine	01	6.1.01	-do-	-do-
4	Sheet Bending Machine (4 ft Bed)	01	8.2.05	-do-	-do-
5	Electric Grinding Machine	01	8.2.05	-do-	-do-
6	Pipe Bending Machine	01	15.7.00	-do-	-do-
7.	Air Blower for Forging	01	-	-do-	-do-

DETAIL OF LAB EQUIPMENT
Mechanical Engineering Department
Lab: Welding & Metal joining Shop

S.No.	Name of Equipment with specification	Qty.	Date of Purchase	Functioning/ Not Functioning	In use/Not in Use
1.	Spot welding Machine	01		-do-	-do-
2	Weighing Machine	01	29.11.00	-do-	-do-
3	Oxy Acetylene Plant	01	13.9.99	-do-	-do-
4	Welding Set (Oil Cooled)	01	26.10.99	-do-	-do-
5	Welding set (Air Cooled)	01	26.10.99	-do-	-do-
6	Grinding Machine (Portable)	01		-do-	-do-

DETAIL OF LAB EQUIPMENT
Mechanical Engineering Department
Lab: Foundry Shop

S.No.	Name of Equipment with specification	Qty.	Date of Purchase	Functioning/ Not Functioning	In use/Not in Use
1.	Air Compressor	01	15.7.00	-do-	-do-
2	Muller Sand Mixer	01	26.10.99	-do-	-do-
3	Electric Blower	01	21.3.01	-do-	-do-
4	Car Wash Pump	01	31.1.01	-do-	-do-
5	Hot Air Oven	01	2.1.04	-do-	-do-
6	Permeability Meter	01	5.8.03	-do-	-do-
7	Universal Sand Testing Machine	01	5.8.03	-do-	-do-
8	Sand Rammer	01	5.8.03	-do-	-do-
9	Electric Sieve Shaker	01	5.8.03	-do-	-do-
10	Rapid Moisture Tester	01	5.8.03	-do-	-do-

DEPTARTMENT OF ELECTRICAL ENGINEERING

CONTROL LAB EQUIPMENTS

S.NO	EQUIPMENTS	QTY.
1	Digital storage oscilloscope	01
2	Frequency response of 1&2 order system	02
3	Oscilloscope 20 MZ	01
4	Oscilloscope 60 MHZ	01
5	Servomotor (dc)	01
6	Transient Response of IInd order system	01
7	Stepper motor	01
8	Multimeter (analog)	01
9	Multimeter (Digital)	04
10	Function generator	02
11	Digital to Analog converter	01
12	Analog to Digital converter	01
13	Study of phase log and phase lead network	01

ELECTRICAL M/C LAB EQUIPMENTS

S.NO	EQUIPMENTS	QTY.
1	Alternator (Kva-3.0,220v)	02
2	D C Motor (Kw/Hp-3.4/5.0,220v)	02
3	Synchronous Motor (3.7kw,220v)	01
4	Dc Motor (2.2kw, 220v)	01
5	Slip Rinf Im (2.2kw, 415v)	01
6	Squirrel Coge Im	01
7	Split Phase Motor(.75kw,230v)	01
8	Universal Motor (1 Kw, 220v)	01
9	Repulsion Motor(0.37kw,230v)	01
10	Pole Changing Im (415v)	01
11	Cut Section Of Slip Ring I.M (.75kw,415v)	01
12	Cut Section Of Squirrel Cage Im (220v)	01
13	Cut Section Of Synch. Motor(.75kw,415v)	01
14	Cut Section Of Dc Shunt Motor(.75kw,220v)	01
15	D C Generator (2.0kw, 220v)	01
16	D C Motor (3.7 Kw, 220v)	01
17	D C Series Motor (2.2kw,220v)	01
18	D C Generator (1.5kw, 220v)	01
19	D C Motor (2.2 Kw, 220v)	01
20	Transformer (1-Phase,250v)	01
21	Transformer (3-Phase,415v)	01
22	Distribution Panel (Ac 12 Way)	01

23	Distribution Panel (Dc 12 Way)	01
24	Rectifier (Dc 100 Amp)	01
25	Synchoronizing Panel	01
26	Techometer Digital	07
27	Phase Sequence Indicator(50-500,25-60hz)	02
28	Auto Transformer (10amp, 1 Phase)	01
29	Auto Transformer (10amp, 3 Phase)	01
30	Clamp Meter (M-9912)	02
31	Balance & Unbalance Load Portable	01
32	Watt Meter (3element, 3 Phase, 4 Wire)	02
33	Load Bank (3-6 Phase,15 Amp,3kw)	02

LIST OF TOOLS AND ASSESARY IN WORK SHOP LAB

S.NO	EQUIPMENTS	QTY.
1	Bench vice 4 inch	02
2	Try Square 6 inch	10
3	Try Square 12 inch	10
4	Standard wire gauge	10
5	Hand saw with handle	06
6	Vernier caliper	05
7	Hacksaw Frame (heavy)	03
8	Hacksaws Blades	12
9	Tin cutter 10 inch	02
10	Screw Driver (Big, medium small)	56
11	Screw Driver kit	01
12	Poker heavy	10
13	Hand Grinder	01
14	Spanner Set	16
15	Measuring Tape	03
16	Wire Stripper/ cutter	35
17	Long nose pliers	49
18	Combination pliers	20
19	Side cutting pliers	25
20	Steel foot rule	12
21	Hammer 300gm	11
22	Hammer	05
23	Center Punch	04

25	Chisel kamani	08
26	Files	05
27	Half round files	10
28	Winding Machine	01
29	Drilling machine	01
30	Drill Bit set	02
31	Soldering iron	08
32	Transformer winding machine	01
33	Neon tester	10

MEASUREMENT LAB EQUIPMENTS

S.NO	EQUIPMENTS	QTY.
1	Andersons bridge kit	01
2	Schering bridge kit	01
3	Wheat stone bridge kit	02
4	Kelvin's double bridge kit	03
5	Null detector	02
6	Galvanometer (125 ohm)	02
7	A F Oscillator 1 kHz	02
8	Regulated DC Power supply	02
9	Function Generator	02
10	Energy meter	02
11	Oscilloscope	02
12	Autotransformer	01
13	Voltage Stabilizers	02
14	D C Source (current controller)	01
15	Measurement of power & power factor kit	01
16	Loading Rheostat 1.5kw	01
17	Multimeter (Digital)	05
18	Multimeter (analog)	01
19	Insulator tester	01
20	Phase Sequence meter	01
21	MEG ohms box	01
22	Variable condenser box	06
23	Fixed condenser box	14

24	Volt meter	08
25	Ammeter ac and dc moving coil	24
26	Wattmeter	06

BASIC LECTRICAL LAB EQUIPMENTS

S.NO	EQUIPMENTS	QTY.
1	DC Power supply	06
2	Decade inductance box	06
3	Decade resistance box	06
4	Decade capacitance box	06
5	Inductance box single 1mh	06
6	Inductance box single 100 mh	06
7	Variable 270v 10 amp	02
8	Single phase energy meter	01
9	Moving coil dc portable voltmeter (flat type)	30
10	Moving coil dc portable millimeters (flat type)	24
11	Moving coil dc portable ammeter (fate type)	24
12	Moving iron AC portable voltmeters	16
13	Moving coil AC portable ammeter	12
14	Analog millimeter	03
15	Power factor meter	06
16	Single phase transformer 2 KVA	01
17	LCR Resonant ckt app.	01
18	Multimeter digital	05
19	Rheostat's	21
20	Wattmeter 5amp, 300v	03

TRANSDUCER LAB.

The following are the equipments available for performing various practical in Transducer lab. These are.

a. Strain Gauge Kit
b. Linear Variable Differential Transformers Kit.
c. Load Cell
d. Accelerometer Kit
e. Photo Transistor Kit
f. Potentiometer Kit
g. Torque Transducer Kit.
h. Hall Effect Kit.
i. Optical Transducer Kit (Having Photodiode, RTD, Photometer)

SOFTWARE/COMPUTER LAB.

The following are the items available in software lab.

S. NO.	Name of Equipment	Make	Specification	Qty.	IDs
1	Computer Systems	HP DX 5150	SYS No:- HPx5150 MTCEL382 PROG:- AMD ATHLON 64 PROCESSOR 3200+ RAM:- 256 MB DDR:- 994 HARD DISK 80 GB FILE SYS:- NTFS MONITOR:-17" HP 7540 CD-ROM:- 52xHP FDP:- HP MOUSE:-OPTICAL (HP) US IN BUILT LAN CARD:- GIGABIT ETHERNET KEYBOARD:-PS/2 HP	14	MBS/AEI/ComLab/SYS-2 TO MBS/AEI/ComLab/SYS-15

INDUSTRIAL INSTRUMENTATION LAB

The following are the equipments available Identified for industrial instrumentation lab.

- Field Pressure Calibrator Kit.
- Temperature Calibrator Kit
- Calibration of RTD.
- UV-Visible Spectrometer Kit.
- IR-Spectrometer Kit.
- Conductivity Meter Calibrator Kit.
- EM-Flowmeter Kit & Ultrasonic Flowmeter Kit.
- AD/DC Meter Calibrator Kit.

BIO MEDICAL INSTRUMENTAION LAB

The following are the equipments available Identified for Bio Medical instrumentation lab.

- Respiratory Analyzer Kit.
- ECG Monitoring Kit.
- CCD Camera
- Clinical Audiometer Kit.
- BP Monitoring System Kit.
- Blood Glucometer Testing Kit.
- PH-Meter Kit.
- Image Processing Module.

PROCESS CONTROL LAB

The following are the equipments available identified for process control lab

- Process trainers for the control of primary process variables temperature, flow, level & pressure.
- Systems to study feed-forward, cascade and ratio control scheme.
- Systems to study control value characteristics.
- Pneumatic-control value leakage detector system kit.
- Data acquisition cards/modules kit.

DEPARTMENT OF APPLIED CHEMISTRY

List of equipments/apparatus in the Chemistry Laboratory

S.NO.	Name of equipment/Apparatus	Quantity
1.	Separating funnel	10 set
2.	Thin layer chromatography	1 set
3.	Filtration assembly	1 set
4.	Distillation assembly	1 set
5.	Hot air oven with thermostat	1 set
6.	Water distillation (steel) 5 ltr	1 set
7.	Heating mental with thermostat(1ltr)	1 no.
8.	Test tube holder	28 nos.
9.	Glass funnel 3’	15 no.
10.	Filter pump	1 no.
11.	Reagent bottle of conical shape	20 no.
12.	Glass trough	4 no.
13.	Silica crucible with lid	20 no.
14.	Stopper of reagent bottle glass	5 no.
15.	Beaker borosil 250 ml	47 no.
16.	Conductivity bridge	1 no.
17.	Porus plates	16 no.
18.	Burette glass	20 no.
19.	Capillaries tubes	5 pack
20.	Gas cylinder LPG	4 no.
21.	Conical flask	43 no.
22.	Pipette (10 cc)	26 no.
23.	Pinch cork (screw type)	45 no.
24.	Analytical balance (weighing)	5 no.
25.	Rough balance (weighing)	10 no.
26.	Analytical weight boxes	!0 no.
27.	Rough weight boxes	5 no.
28.	Wire gauge	40 no.
29.	Viscometer	20 no.
30.	Stalagometer	30 no.
31.	China dish	35 no.
32.	Blue litmus paper	1 pack
33.	Red litmus paper	1 pack
34.	Reagent bottle (125 ml glass)	32 no.
35.	Tongs 8” + Tongs 6”	34 no..
36.	Measuring flask 1000 ml	1 no.
37.	pH indicator 1.0-14.0	1 pack
38.	pH paper 2.0-10.5	1 pack
39.	Clay pipe triangular	25 no.
40.	Thieles Tube	26 no.

41.	Voumetric/Measuring flask 100 ml	26 no.
42.	Spatulas	25 no.
43.	Melting point Apps	6 no.
44.	Iron stand heavy with clamp	4 no.
45.	Tri-pod Stand	30 no.
46.	Burrette stand (Iron)	45 no.
47.	Beaker 500 cc (glass)	2 no.
48.	Centrifurgal machine (Plastic)	1 no.
49.	Conical flask 100cc	11 no.
50.	Desicator 6” Plastic	10 no.
51.	Funnel plastic	35 no.
52.	Funnel stand wooden	13 no.
53.	Test tube stand	35 no.
54.	Pyknometer	3 no.
55.	Hot plates electric	10 no.
56.	Droping bottles	7 no.
57.	4 finger clamp Iron stand	8 no.
58.	Volumeteric flask 250 ml	20 no.
59.	Measuring cylinder	23 no.
60.	Funnel glass	23 no.
61.	Stop watches mechanical	19 no.
62.	Pestal and Mortar	2 no.
63.	Reagent Bottles plastic 100 ml	14 no.
64.	Reagent bottles glass 3 L	1 no.
65.	Rubber tubing 8 mm & 5 mm	3 pkt
66.	Round bottom flask 250 ml	16 no.
67.	Reagent bottles 5 lts	1 no.
68.	Organic model	1 no.
69.	Tri pod stand 6 “	50 no.
70.	Test tube Brushes	10 no.
71.	Ceramic tiles	35 no.
72.	Thermometer	10 no.
73.	Winchester bottles glass 3 Lts	9 no.
74.	Watch glass	33 no.
75.	Wash bottles plastic 1 Lt	4 no.
76.	Wash bottles plastic 500 ml	32 no.
77.	Cork Borer	2 no.
78.	Electric water bath	2 no.
79.	Water bath Copper	13 no.
80.	Reagent bottles Narrow mouth 250 ml	26 no.
81.	Reagent bottles Wide mouth 250 ml	14 no.
82.	Reagent bottles 500 ml	5 no.
83.	Spirit lamp aluminum	15 no.
84.	Spirit lamp glass	15 no.
85.	Centrifugal machine Hand driven	5 no.
86.	Kipp’s apparatus	5 no.
87.	Refrigerator 165c	1 no.
88.	Specific gravity bottles 10 ml	16 no.
89.	Specific gravity bottles 25 ml	10 no.
90.	Beaker 25 ml	11 no.

91.	Fractional weight boxes	20 no.
92.	Boiling tubes	40 no.
93.	Test tubes Pyrax type	70 no.
94.	Iron funnel stand	9 no.
95.	Fire extinguisher 5 Kg	1 no.
96.	Bunsen Burner	22 no.
97.	Filter paper	1 Rim
98.	Flat bottom flask 2000 ml	3 no.
99.	Flat bottom flask 1000 ml	2 no.
100.	Fusion tubes	3 pkt
101.	Test tubes Borosil	130 no.

DEPARTMENT OF APPLIED PHYSICS

LIST OF EQUIPMENTS FOR APPLIED PHYSICS LAB.

S.No.	Equipment	Quantity
1	Hall Effect Experimental Setup.	Two
2	Measurement Setup to measure resistively of materials by four probe method at different temperatures	Two
3	Experimental setup to determine the forbidden energy gap.	Two
4	Experimental setup to determine Planck's constants by solar cell	Two
5	Experimental setup to determine Stefan's constant	Two
6	Refractive Index of liquid using a Laser setup	One
7	To determine velocity of ultrasonic waves in different liquid media by ultrasonic method	Two
8	Study of Fourier analysis	One
9	Plank's constant by solar cell	Two
10	Focal length of combination of two lens using nodal slide assembly Solar Education Kit	Four
11	Hall effect Experimental Setup	Nil
12	Hystersis's curve demonstrator	Two
13	Audio Frequency Generator 15MHz	Two
14	Sodium Light Source with Vacuum jacket, Transformer 35watt	Five
15	Mercury Light source lamp 80W along with choke.	Five

16	Digital Multimeters with high resolution (Current in nA)	Ten
17	Regulated Power supply 5KVA	One
18	Bread Board	Twenty
19	e/m apparatus (Helical Method)	One
20	Soldering iron (complete set up)	Twenty
21	Fresnel's Biprism complete set up with optical bench	One
22	Study of Electromagnetic damping terminal velocity reached by magnetic falling I a tube	Three
23	Hallow Prism manufactured in one plate of size 50 x 50 x 50 mm	Twenty
24	Stop watches	Ten
25	Diffraction Grating 15000lines/inch , Eye Pieces , Table Lamps,	Twenty

PROTECTION LAB

EQUIPMENTS	QUANTITY.
1. Panel for 3-Phase O/C & E/F relay (Static Type)	1 No.
2. Panel for 3-Phase Negative Sequence relay	1 No.
3. Panel for 3-Phase O/C & E/F relay (E/M Type)	1 No.
4. Panel for 3-Phase%age Differential relay(E/M Type)	1 No.
5. Panel for Under voltage relay(E/M Type)	1 No.
6. Panel for Under voltage relay (Static Type)	1 No.
7. Panel for Over voltage relay (E/M Type)	1 No.
8. Panel for Over voltage relay (Static Type)	1 No.

SOLAR LAB

PARTICULARS	QUANTITY
1. Solar Charger	**1 No.**
2. Battery (12 V)	**1 No.**
3. Inverter (Intex)	**1 No.**
4. Board containing 2-Ammeters & 2-Voltmeters	**1 No.**
5. Loading Rheostat	**3 No.'s**
6. CFL's	**4 No.'s**
7. Holders	**6 No.'s**

LIST OF EQUIPMENT IN THE STOCK OF APPLIED PHYSICS DEPTT. 2008-2009

S.No.	Name of Equipments	Quantity	Remarks
1.	Base Plate	1 No.	
2.	Bi-Prism Senior with optical Bench.	2 Nos.	
3.	5 KV stabilizer.	1 No.	
4.	Andreson's Bridge OSAW.	7 Nos.	
5.	DC Voltmeters are		
	0-5 Volts	6 Nos.	
	,, ,, 0-10 Volts	6 Nos.	
	,, ,, 0-50 Volts	6 Nos..	
	,, ,, 0-100 Volts	6 Nos.	
	,, ,, 0-250 Volts	6 Nos.	
	,, ,, 0-300 Volts	6 Nos.	
	,, ,, 0-450 Volts	6 Nos.	
	,, ,, 0-500 Volts	6 Nos.	

6.	DC Ammeters are		
	0-1 Amp	6 Nos.	
	,, ,, 0-10 Amp	6 Nos.	
	,, ,, 0-15 Amp	6 Nos.	
7.	DC Power source	2 Nos.	
8.	He-Ne laser 2MW	1 No.	
9.	Helmholtz Galvenometer	1 No.	
10.	Industrial Kelvin double Bridge	2 Nos.	
11.	Light Reflecting Unit OSAW	1 No.	
12.	Laser Leit OSAW	1 No.	
13.	Michelson's Interferometer	1 No.	
14.	Millikan's oil drop spp.	1 No.	
15.	Newton's Ring Apparatus (Compact type)	1 No.	
16.	Newton's Ring Microscope (Microscope type)	1 No.	
17.	Optical Benches Complete	1 No.	
18.	Polarimeter OSWA	1 No.	
19.	Power supply for Millikan's oil drops Apparatus.	1 No.	
20.	MIP-Reversing Keys.	1 No.	
21.	Stand for Sodium Lamp.	1 No.	
22.	Mercury Lamps with Choke.	1 No.	
23.	Sodium Vapour Lamp al.	1 No.	
24.	Transformer for Sodium Vapour Lamp.	1 No.	
25.	Electrical Vibrator.	1 No.	
26.	Weight boxes 1-100 gms.	1 No.	

27.	Analytical Balances.	1 No.	
28.	Glass Slab.	1 No.	
29.	Prism Flint.	1 No.	
30.	Concave Lens	1 No.	
31.	Bar Pendulum with stand.	1 No.	
32.	Telescope.	1 No.	
33.	Standard spectrometer complete.	1 No.	
34.	Spot Reflecting Galvanometer.	1 No.	
35.	Tangent Galvanometer.	1 No.	
36.	Transistor Characteristics App.	1 No.	
37.	Vernier Callipers. JME type.	1 No.	
38.	Conductivity Attachment	1 No.	
39.	Concave Mirrors.	1 No.	
40.	Convex Mirrors.	1 No.	
41.	Convex Lens.	1 No.	
42.	Knitting needle.	1 No.	
43.	Meter Rods Wooden.	1 No.	
44.	Holders for Mercury bulb.	1 No.	
45.	Stop Watch Mechanical.	1 No.	
46.	Spectrometer Double Disc.	1 No.	
47.	Screw Guage 25mm.	1 No.	
48.	Head phone.	1 No.	
49.	Rheostat	1 No.	
50.	Weston type Galvanometer.	1 No.	
51.	Diffraction Grating	1 No.	
52.	Semi-Conductor Diode characteristic App.	1 No.	

53.	Series and parallel Resonance App.	1 No.	
54.	Carey-Faster's bridge (Complete set)	1 No.	
55.	Electromagnetic Induction App. (Faraday's law)	1 No.	
56.	Lee's Apparatus Complete	1 No.	
57.	Viscosity App. Complete	1 No.	
58.	Seasle's App. Complete	1 No.	
59.	Atomizee App.	1 No.	
60.	Eye Piece for Spectrometer	1 No.	
61.	Magnifying Lens 4" (Beklite)	1 No.	