


	HARYANA INSTITUTE OF ENGG. & TECHNOLOGY, KAITHAL-136027	DETAIL OF LABORATORY

Details of Laboratories & Workshops

S.No	Name of the Course	Name of the laboratory/ workshop	Total Area of lab/ workshop (Sqm)	Major equipment
	B.Tech. in Computer Sc. & Engg., Electronics & Comm. Engineering, Information Technology, & Mechanical Engineering	Physics & Chem. Lab	250	As per list attached
		KOM/EME/TD Lab	200	
		Computer Lab	176	
		ET/EMEC Lab	125	
		AC/SDC Lab	105	
		SOM Lab	105	
		Workshops	954	
	MBA	Computer Lab	176	
			2091	

Sorabh Gupta

(Prof. Sorabh Gupta)
Director HIET

	HARYANA INSTITUTE OF ENGG. & TECHNOLOGY, KAITHAL-136027	DETAIL OF LABORATORY

PHYSICS LABS

Sr.No	Description	Quantity	Net amount paid(Rs.)
1.	Digital Multimeter	02	1300.00
2.	Desauty Bridge	02	4770.00
3.	Half-shade Polarimeter	01	2285.00
4.	Post Office Box	04	3880.00
5.	Eureka Wire	05	425.00
6.	Magnifying lens	04	288.00
7.	Sonometer without weights	03	870.00
8.	Resistance box (0-50,000)	10	6650.00
9.	Ni-Fi battery	10	12850.00
10.	Galvanometer (50 ohm)	12	1680.00
11.	Galvanometer (100 ohm)	12	1680.00
12.	Optical bench (complete,1m)	03	6435.00
13.	Step down transformer for sonometer	04	1560.00
14.	Copper wire(cotton wounded)	06	1950.00
15.	Sodium lamp with box and transformer	02	4640.00
16.	Iron stand with heavy base	06	2610.00
17.	Clamp with boss-head	06	510.00
18.	Fractional Resistance Box (0.1-10ohm)	06	3870.00
19.	Fractional Resistance Box (0.01-0.1ohm)	06	3870.00
20.	Screw-Gauge in velvet case	04	380.00
21.	Mercury lamp complete with box and choke	01	1450.00
22.	Voltage auto variate(0-260 V/4A)	01	3870.00
23.	Diffraction grating (15000 lines per inch)	02	1900.00
24.	Spectrometer (deluxe type)	01	14500.00
25.	Newton's Ring Experiment	02	7600.00
26.	Sodium lamp with transformer and box	02	5600.00
27.	Fresnel Biprism kit without sodium lamp	01	5800.00
28.	Resolving Power of telescope with Travelling microscope	02	9070.00
29.	Carey-Foster Bridge	02	3380.00
30.	Horse-shoe magnet	04	480.00
31.	Optical Needle	12	240.00
32.	Slotted weight with hook(5x50 gm)	04	320.00
33.	Lens (F.L. 15 cm Dia 5cm)	24	168.00
34.	Lens (F.L. 20 cm Dia 5cm)	24	168.00
35.	Resistance Coil (0.1 ohm)	06	180.00
36.	Resistance Coil (0.2 ohm)	06	180.00
37.	Resistance Coil (1 ohm)	06	180.00
38.	Resistance Coil (2 ohm)	06	180.00
39.	Resistance Coil (5 ohm)	06	180.00
40.	Hanging weights(2.5 kg)	06	1200.00
41.	Compass Box	04	320.00
42.	Ammeter(0-1 A DC)	04	660.00
43.	Ammeter(0-3 A DC)	04	660.00
44.	One way Key	12	600.00
45.	Two-way-Key	12	1140.00
46.	Reversing Key	12	1500.00
47.	Tapping Key	06	450.00

	HARYANA INSTITUTE OF ENGG. & TECHNOLOGY, KAITHAL-136027	DETAIL OF LABORATORY

48.	Voltmeter(0-3 V DC)	06	990.00
49.	Voltmeter(0-250 V DC)	06	990.00
50.	Wooden Scale (1/2 m)	06	216.00
51.	IP Of Mercury	02	5000.00
52.	Thyratron Tube(2D21)	02	1600.00
53.	Four Probe apparatus	01	9450.00
54.	Ultrasonic Apparatus	01	4700.00
55.	Flashing and Quenching App.	02	2200.00
56.	Stewart and Gee app.	02	5000.00
57.	Battery Charger (3 A)	01	575.00
58.	Measuring Tape(15 m)	01	120.00
59.	Connecting Leads(Black and red)	10	190.00
60.	Plane Mirrors	18	63.00
61.	Beakers(250 ml)	02	24.00
62.	Measuring Cylinder(100 ml)	01	28.00
63.	Funnel(3 inches)	01	06.00
64.	He-Ne Laser	01	19400.00
65.	Planck's Constt. App.(digital)	01	22350.00
66.	V-I characteristics app.	02	2500.00
67.	Pt-Resistance thermometer	02	4550.00
68.	Stop Clock	03	960.00
69.	Rheostat(12 inch) 3000 ohms/0.3 A	03	1770.00
70.	Rheostat(12 inch) 360 ohms/1 A	03	1770.00
71.	Rheostat(12 inch) 960 ohms/0.6 A	03	1770.00
72.	Clamp with boss-head	05	300.00
73.	Hall-Effect set up (complete)	01	31800.00
74.	Newton ring set up with glass plate	04	500.00
75.	Glass plate (for Newton ring)	05	125.00
76.	Heater	01	90.00

	HARYANA INSTITUTE OF ENGG. & TECHNOLOGY, KAITHAL-136027	DETAIL OF LABORATORY

Language Lab

Sr.No.	Name of equipment	Quantity	Net amount paid
1	Custom Built Master Console LLS-300.	01
2	Amplifire for Incomming and Outgoing audio VCR-60	01
3	Student Unit	20
4	UPA 500 Cassette amplifier	01
5	Head phones	25
6	Shield wire	-----
7	Speaker	01	Total = 1,25490Rs

	HARYANA INSTITUTE OF ENGG. & TECHNOLOGY, KAITHAL-136027	DETAIL OF LABORATORY


DEPARTMENT OF CSE/IT

Sr.No	Name of equipment	Qty	Net Amount Paid (Rs.)
1	MSDN Academic Alliance	1	131096.00
2	Mc Afee Total Protection	1	6500.00
3	Software MSOffice 2007	5	11831.51
4	Office 2007 STD. Eng.	1	1519.11
5	Visual Studio Pro 2008	5	16885.49
6	Visual Studio Pro 2008 Eng.	1	1519.11
7	D-Link 24 Port Switch	1	4750.00
8	Connector RJ 45	4	400.00
9	D-Link	2	7600.00
10	Wirespan 3000 C	1	18720.00
11	D-link	2	3432.00
12	D-Link 24 Port Switch	1	3952.00
13	Cat 6 Cable	1	5200.00
14	ATX Cabinet	2	1599.00
15	ATX Cabinet	1	800.00
16	Ceiling Mount Kit	2	11000.00
17	Sony LCD Projector	3	114000.00
18	Ceiling Mount Kit	2	11000.00
19	Project Screen	1	2700.00
20	Web Space	1	2500.00
21	2 GB Pen Drive	1	425.00
22	E-Beam Complete kit	3	137280.00
23	Software TC++ Suite	50	59596.00
24	MediaConverter D-Link	2	10600.00
25	Cable Serial to V.35	1	875.00
26	Kirloskes 20KVA On Line UPS System	2	520000.00
27	Wireless Lan Card	150	129440.00
28	Switch 8 Port	1	1196.00
29	Cable CAT 5 (305M Box)	1	3640.00
30	Computer	100	1625300.00
31	Printer HP LJ 1005	15	170904.00
32	D-Link AP	10	74500.00
33	BSNL Lease Line	1	441156.00
	TOTAL		3531916.22

	HARYANA INSTITUTE OF ENGG. & TECHNOLOGY, KAITHAL-136027	DETAIL OF LABORATORY


Department Of ECE
EEE Lab

S.No.	Name of Equipment	Qty	Net Amout Paid (Rs.)
1	CRO	04	71,595
2	Function Generotor	04	32,314
3	V-I Characteristics of P-N Junction Diode Kit	02	2,773
4	Diode as Clipper/Clamper Kit	02	1,702
5	Half Wave & Full Wave Rectifier Kit	02	5,164
6	Zener Diode as Regulator Kit	02	3,251
7	Transistor Char. App. Kit	02	4,131
8	RC Coupled Amp. With Negative Feedback Kit	02	3,041
9	RC Phase Shift Oscillator Kit	02	2,199
10	V-I Characteristics of JFET Kit	02	3,041
11	UJT Characteristics Kit	02	3,806
12	Op-Amp. As Integrator/Differentiator Kit	02	3,041

	HARYANA INSTITUTE OF ENGG. & TECHNOLOGY,	DETAIL OF LABORATORY
	KAITHAL-136027	

Department Of ECE
ET Lab

S.No.	Name of Equipment	Qty	Net Amount Paid (Rs.)
1	KCL/KVL Kit	01	1,690
2	Thevenin & Norton Theorem Kit	01	1,590
3	Superposition Theorem Kit	01	1,590
4	3 Phase Induction Motor	01	32,900
5	1 Phase Resistive Load with variable 20 steps, 5 KW	01	9,000
6	DC Power Supply 430 V A.C, 250 V D.C, 30 A	01	71,900
7	Digital Multimeter	05	10,625
8	Contact Type Digital Tachometer HTM-590	02	2,805
9	Rheostat, single Tube, 1089 ohm/06 A	02	5,950
10	Rheostat, single Tube, 400ohm/1 A	02	8,500
11	Rheostat, single Tube, 50 ohm/5A	04	13,600
12	Single Phase, Double wound Transformer, 1 kVA	02	7,055
13	Port Moving Iron AC Voltmeter, 0-300 V	06	6,450
14	Port Moving Iron AC Voltmeter, 0-75/150/300 V	05	5,825
15	Port Moving Iron AC Voltmeter, 0-300/600 V	03	3,360
16	Port Moving Coil DC Voltmeter, 0-300 V	03	3,495
17	Port Moving Iron AC Ammeter, 0-0.5/1 A	05	5,600
18	Port Moving Iron AC Ammeter, 0-5/10 A	05	5,600
19	Port Moving Iron AC Ammeter, 0-1/2 A	02	2,240
20	Port Moving Coil DC Ammeter 0-5 A	02	2,330
21	Port Moving Coil DC Ammeter 0-1/2 A	02	2,570
22	Port Type Dimmerstat, 4A-1P	04	17,200
23	Port Type Dimmerstat, 10A-3P	02	37,000
24	Port 1-Ph-1-Element Dynamometer type Wattmeter, 2.5/5 A	02	3,630
25	Port 1-Ph-1-Element Dynamometer type Wattmeter, 5/10 A	04	7,260
26	Port LPF(0.2 P.F) Wattmeter, 2.5/5 A	03	11,970
27	Port 1-Ph-1-Element Dynamometer type P.F. Meter, 5 A	01	2,770
28	Study of DC Shunt/ Compound Motor Trainer, 2 H.P, 230V DC	01	21,570
	TOTAL		3,06,075

	HARYANA INSTITUTE OF ENGG. & TECHNOLOGY, KAITHAL-136027	DETAIL OF LABORATORY

Department Of ECE
EMEC Lab

S.No.	Brief Descriptions & Specification of goods	Qty.	Amount (Rs.)
1.	DC Shunt Motor (3 HP/220V))+Compound Generator Set (1.5kW)	1	55300
2.	Salient Pole alt (2kVA/1500rpm/415V/4-pole)+DC motor(3 HP/230V/1500rpm)+DC exciter (220V)	1	79850
3.	AC Auto syn Motor(3HP/3-phase/415V/1500rpm) with DC exciter on the same shaft mounted	1	66780
4.	Star Delta Starter	1	1890
5.	Wattmeter (L.P.F.)CC-(2.5/5A) PC (150V/300V/600V)	2	7980
6.	Wattmeter (U.P.F.)CC-(2.5/5A) PC (150V/300V/600V)	2	3630
7.	Wattmeter (U.P.F.)CC-(5/10A) PC (150V/300V/600V)	1	3630
8.	Voltmeter (MI)0-300V/600V	6	6720
9.	Voltmeter (MI)0-75/150/300V	5	5825
10.	Ammeter (MI) 0-5/10A	4	4480
11.	Ammeter(MI) 0-1/2A	2	2240
12.	Voltmeter (MI)0-150/300/600V	2	2330
13.	Voltmeter (MI) 0-15/30/75V	1	1165
14.	Rheostat (1089/0.6A)	1	900
15.	Rheostat (50/5A)	3	8400
16.	Rheostat (400/5A)	1	800
17.	1-Phase Auto-T/F (4A)	6	23700
18.	3-phase Auto-T/F (15A)	3	70800
19.	1-Phase, 1kVA, Step Down T/F, (with percentage tapping)	2	4900
20.	3-Phase resistive load (5A)	2	7750
21.	3-phase capacitive load (10A in steps of 1.2A)	1	19000
22.	3-Phase, AC Squirrel Cage Induction Motor (3 HP/1440rpm)	1	13900
23.	1-Phase induction Motor (0.5 HP) Capacitor Start with Loading Arrangement	1	13000

	HARYANA INSTITUTE OF ENGG. & TECHNOLOGY, KAITHAL-136027	DETAIL OF LABORATORY


Department Of ECE
AC Lab

S.No.	Brief Descriptions & Specification of goods	Qty.	Amount (Rs.)
1.	AM KIT	3	25500
2.	FM KIT	3	25500
3.	Super heterodyne Rx	2	5700+ 6800+ 5100 =17600
4.	Function Generator (10 MHz)	2	8350
5.	CRO (30 MHz)	2	18500
6.	PAM Kit	3	43500
7.	PWM Kit	3	
8.	PPM Kit	3	
9.	Diode Detector & AGC	2	5000
10.	Sampling Theorem	2	17800

	HARYANA INSTITUTE OF ENGG. & TECHNOLOGY, KAITHAL-136027	DETAIL OF LABORATORY

**Department Of ECE
SDC Lab**

S.No.	Brief Descriptions & specification of goods	Qty.	Amount (Rs.)
1.	Solar Cell Kit	2	8400
2.	Active Filter	2	4380
3.	MOSFET Character. Kit	2	4400
4.	SCR & Thyristor kit	2	5900

	HARYANA INSTITUTE OF ENGG. & TECHNOLOGY, KAITHAL-136027	DETAIL OF LABORATORY

CHEMISTRY LAB

Sr.No	Description	Quantity	Net amount paid(Rs.)
1.	Conductivity pH meter kit	05	32500.00
2.	Condenser clamp	24	1632.00
3.	Digital balance	01	25500.00
4.	Kitchen scale	01	490.00
5.	Oven	01	9200.00
6.	Stop watch	05	1750.00
7.	Weight box	01	250.00
8.	Water bath	05	10625.00
9.	Digital temp. meter	02	1150.00
10.	Balance-k-roy	01	1850.00
11.	Flame Photometer	01	38400.00
12.	Redwood viscometer no.1	05	44000.00
13.	Redwood viscometer no.2	02	19600.00
14.	Heating mental	02	2000.00
15.	Pensky Martin flash point	05	45000.00
16.	Double distillation apparatus	01	18240.00

	HARYANA INSTITUTE OF ENGG. & TECHNOLOGY, KAITHAL-136027	DETAIL OF LABORATORY

LAB: E.M.E & T.D

S. No	Name of Equipment	Qty	Net Amount Paid (Rs)
1.	Model of Jet Condenser	01	3,690
2.	Model of Sudgen's Super Heater	01	2,952
3.	Model of Babcock & Wilcox Boiler	01	7,011
4.	Model of Lancashire Boiler	01	7,011
5.	Model of Cochran Boiler	01	5,350.50
6.	Model of Green Economizer	01	3,690
7.	Model of Feed Check Valve	01	1,752.75
8.	Model of Dead Wt. Safety Valve	01	1,153.12
9.	Model of Spring Loaded Safety Valve	01	1,153.12
10.	Model of Wankel Engine	01	5,535
11.	Model of Lever Safety Valve	01	1,291.50
12.	Model of Surface Condenser	01	4,059
13.	Scooter type carboutor	01	1,568.25
14.	Motorcycle carburator	01	1568.25
15.	Model of Diesel Engine 2 Stroke	01	1,752.75
16.	Model of Diesel Engine 4 Stroke	01	1,752.75
17.	Model of Petrol 2 Stroke	01	1,568.25
18.	Model of Petrol 4 Stroke	01	1,752.75
19.	Model of Steam Engine with Boiler	01	4,151.25
20.	Model of Kaplan Turbine	01	1,937.25
21.	Model Of Pelton Turbine (Dynamometer)	01	5,442.75
22.	Model of Francis Turbine	01	3,874.50
23.	Reciprocating pump (Actual cut mode)	01	5,166
24.	Jib Crane Apparatus	01	5,737.50
25.	Air pre heater	01	3,690
26.	Blow off cock	01	2,952
27.	Model of cooling tower	01	7,011
28.	Maruti car carbourater	01	2,398.50
29.	Solex type carbourater	01	1,568.25
30.	Rope & break dynamometer	01	6,642
31.	Flash point & fire point apparatus	01	9,040.50
32.	Geometrical model kit	01	1,752.75
33.	Model of nestler boiler	01	8,534
34.	Locomotive boiler	01	8,534
35.	Air steam pressure turbine	01	2,859.75
36.	Turbo jet engine	01	7560
37.	Centrifugal pump (Actual cut section)	01	5,166
38.	Red wood viscometer	01	1,1808
39.	Worm & worm wheel -double	01	3,782.25
40.	Winch crab double prachage	01	6,918.75
41.	Belt drive two stage	01	1,153.12
42.	Centrifugal clutch	01	1,752.75
43.	Bending moment apparatus	01	2079
44.	Projection of straight line apparatus	01	1040

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LAB : KOM

Sr.No.	Name Of Equipment	Qty.	Net, Amount Paid(Rs.)
1.	Screw Jack	01	7,011
2.	Rope Pulley	01	1800
3.	V Belt Pulley	01	
4.	Flat Belt Pulley	01	
5.	Cone Pulley	01	
6.	Double Shoe Break	01	
7.	Band & Block Break	01	3,505
8.	Multiplate Clutch	01	2,306
9.	Hydraulic Break	01	3,505
10.	Plate Clutch	01	1,476
11.	Centrifugal Clutch	01	1,752
12.	Internally Expanding Brake	01	2,490
13.	Epicyclic Gear Sun & Planent	01	1,845
14.	Belt drive two stage	01	1,153
15.	Double Hook Coupling	01	2,398
16.	Two Stage Spur Gears	01	1,199
17.	Oscillating Engine Mechanism	01	4,520
18.	Reciprocating Engine Mechanism	01	
19.	Witworth Quick Return Machanism	01	
20.	Hooks Law Apparatus	01	
21.	Rack & Pinion	01	553
22.	Cam & Follower Model (Plate Cam)	01	7,380
23.	Translating Cam	01	
24.	End Cam	01	
25.	Tangent Cam	01	
26.	Cylindrical Cam	01	
27.	Model of Motorised Gyroscope	01	18,300=00
28.	Whirling of Shaft Apparatus	01	22,400=00
29.	Static &Dynamic Balancing Apparatus	01	18,000=00
30.	Governor Apparatus	01	18,300=00
31.	Cam Analysis Apparatus	01	25,400=00
32.	Influence of inertia upon velocity & Accerlation	01	23,000=00
33.	Epicyclic Gear train & Holding Torque Apparatus	01	55,000=00
34.	Moment of inertia of fly Wheel	01	23,000=00
35.	Belt Drive Lose And Fast	01	2,000.00
36.	Differential Gear Assembly (Actual Cut Section)	01	4,800.00
37.	Actual Cut section Gear Box Car	01	9,000.00
38.	Single Stage Bevel Gears	01	950.00
39.	Single Stage Helican gears	01	950.00
40.	Worm Gear	01	800.00
41.	Inter Connected Gears	01	3,800.00
42.	Differ Ential Gear	01	2,400.00
43.	Chain Drive	01	1,250.00
44.	Conical Friction clutch	01	1,700.00
45.	Power Break Actual Working	01	11,000.00

	HARYANA INSTITUTE OF ENGG. & TECHNOLOGY, KAITHAL-136027	DETAIL OF LABORATORY

46.	Moment of Inertia of Fly Wheel 15cm	01	1,600.00
(A)			
(B)	Moment of Inertia of Fly Wheel 20cm	01	2,800.00
(C)	Moment of Inertia of Fly Wheel 25cm	01	3,500.00
47.	Combined Inclined Plane And Friction Slide Apparatus	01	2,650.00
48.	Bell Crank Lever (WithWeights)	01	2,300.00
49.	The Combined Compression And Extension of Springs Apparatus	01	3,700.00
50.	Wheel And Differential Axle 20cm(Without Weight)	01	2,250.00
51.	Old hams Coupling	01	1,900.00
52.	Tortion Apparatus Horizontal Type	01	2,200.00
53.	Simple Pendulum	01	380.00
54.	Hooks Coupling (Double)	01	2,600
55.	Disc Break Model	01	3,200

SOM LAB

Sr.No.	Name Of Equipment	Qty.	Net Amount Paid (Rs.)
1.	Universal Testing Machine	01	434960.00
2.	Rockwell Hardness Tester	01	44544.00
3.	Universal Pendulum Impact Tester	01	51840.00
4.	Torsion Testing Machine (capacity :50 kgs)	01	135000.00
5.	Spring Testing Machine (capacity:100 kgs)	01	27000.00


 (Prof. Sorabh Gupta)
Director HIET