



(ESTD-1995)

Rajeev Gandhi Memorial College of
Engineering & Technology
(Autonomous)
Nandyal-518 501, Nandyal (Dt.)
Andhra Pradesh (State), INDIA

LIST OF EQUIPMENTS AND LABORATORY DETAILS




R G M College of Engineering & Technology
Autonomous
Nandyal – 518501, Nandyal – Dt., A.P., INDIA

DETAILS OF EQUIPMENTS

Total Cost of Equipment in Rs. 12,51,59,673/-

S.No.	DEPARTMENT	COST OF EQUIPMENT (Rs.)
1.	Civil Engineering	1,16,53,527
2.	Electrical & Electronics Engineering	2,14,33,370
3.	Mechanical Engineering	2,53,56,237
4.	Electronics & Communication Engineering	3,31,95,565
5.	Computer Science & Engineering & Allied Branches and MCA	2,59,75,000
6.	MBA	1,83,960
7.	English	27,24,450
8.	Mathematics	5,51,343
9.	Physics	34,06,906
10.	Chemistry	6,79,315
Total		12,51,59,673

■ Table: Department Laboratory Equipment cost. (As on 31.08.2023)


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DEPARTMENT OF CIVIL ENGINEERING

EQUIPMENT

Total equipment cost in Rs. 93,47,478/-

Name of the Lab: Geodetic Engineering (Surveying) Lab Total Cost: Rs. **1910871.00**

S.No.	DATE	DESCRIPTION	PRICE	QTY.	COST
1.	13-7-2009	Chain - 30 m	1310.40	5	6,552.00
2.		Chain - 20 m	1123.20	1	1,123.20
3.		Ranging Rods - 3 m	397.80	25	9,945.00
4.		Cross Staff Wooden	468.00	2	936.00
5.		Cross Staff	370.50	4	1,482.00
6.		Compass with Tripod	1326.00	5	6,630.00
7.		Compass with Tripod	1950.00	1	1,950.00
8.		Optical Square	624.00	2	1,248.00
9.		Box Sextent	1778.40	2	3,556.80
10.		Planimeter	858.00	3	2,574.00
11.		Theodolite	11700.00	5	58,500.00
12.		Theodolite-Inverted Image	11310.00	1	11,310.00
13.		Plain Table	3666.00	4	14,664.00
14.		Dumpy Level	5460.00	1	5,460.00
15.		Dumpy Level-Inverter Image	5226.00	1	5,226.00
16.		Levelling Staff	1014.00	5	5,070.00
17.		Levelling Staff	1248.00	1	1,248.00
18.	14-8-2009	Automatic Level	6240.00	2	12,480.00
19.		Electronic Theodolite	60840.00	1	60,840.00
20.	21-10-2009	Automatic Level	16197.50	2	32,395.00
21.		Total Station Theodolite (Trimble)	334400.00	1	3,34,400.00
22.		Tapes 15m	600.00	1	600.00
23.	Tapes 30m	1			
24.	2-9-2011	Total Station Theodolite (Trimble)	404250.00	1	4,04,250.00
25.	23-7-2014	Laser Distance Meter, (Leica Disto D2)	5990.00	1	5,990.00
26.	13-10-2014	Chains, 30 m	1772.00	3	5,316.00
27.	5/5/2015	Leica Make Autolevels	13125.00	4	52,500.00
28.	23-08-2016	Ranging Rods	310.00	20	6,510.00
29.		Transit Theodolite	13230.00	2	27,783.00
30.		Trimble M-1 5' Optical Plummet Prizm assembly, graduated telescopic range pole, heavy duty wooden tripod with dual clamp	338153.00	1	3,55,061.00
31.		Trimble M-3 5' Total Station with Trimble accessories, lazer plummet, prizm assembly	424630.00	1	44,5861.00

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		graduated telescopic range pole heavy duty wooden tripod with dual clamp			
32.	29-08-2016	Laser Distance Meter, (Leica Disto D2)	11990.00	1	11,990.00
33.	29-08-2016	Hand held GPS	16500.00	1	16,500.00
34.	30-08-2016	Everyday Ultimo Recharger	920.00	1	920.00
Total					19,10,871.00

Name of the Lab: Strength of Materials Laboratory

Total Cost: Rs.

13,84,232/-

S#	DATE	DESCRIPTION	PRICE	QTY.	COST
1	24-3-1997	Torsion Testing Machine	89650.00	1	89,650.00
2		Tensile Testing Machine [Springs]	43900.00	1	43,900.00
3		Brinell's Hardness Tester [3000J]	28750.00	1	28,750.00
4		Rockwell Hardness Tester	12900.00	1	12,900.00
5		Impact Testing Machine	42500.00	1	42,500.00
6	2-4-2000	Simply Supported Beem for Deflection	1000.00	1	1,000.00
7	31-3-2006	Digital Compression Testing Machine [3000KN]	320793.00	1	3,20,793.00
8	17-7-2009	Dial Gauge	2600.00	2	5,200.00
9		Magnetic Stand	1248.00	2	2,496.00
10		Vernier Calipers 200 mm	936.00	3	2,808.00
11		Screw Gauge 0.25 mm	780.00	2	1,560.00
12		Cube Moulds 150 x 150	884.00	3	2,652.00
13	28-5-2010	Computerized Universal Testing Machine [60 Tones]	820000.00	1	8,20,000.00
14	25-8-2015	Dial Gauge with Magnetic Stand	5011.50	2	10,023.00
		TOTAL			13,74,209.00

Name of the Lab: Engineering Geology Lab

Total Cost: Rs. **103689.29**

S#	DATE	DESCRIPTION	PRICE	QTY.	COST
1	17-7-2010	Hardness Collection: Set of 9 Minerals	1123.65	1	1,123.65
2		Lustre Collection: Set of 10 Minerals	1123.65	1	1,123.65
3		Cleavage Collection: Set of 10 Minerals	1123.65	1	1,123.65
4		Fracture Collection: Set of 6 Minerals	1123.65	1	1,123.65
		Tenacity Collection: Set of 4 Minerals	1123.65	1	1,123.65

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5		Streak Collection: Set of 10 Minerals	1123.65	1	1,123.65
		Feel Properties: Set of 10 Minerals	1123.65	1	1,123.65
6		Form & Structure: Set of 50 Minerals	14187.50	1	14,187.50
7	23-9-2010	Streak Plates:	56.75	25	1,418.75
8		Plastic Specimen Trays	34.05	120	4,086.00
9		Rock Specimens	306.45	46	14,096.70
10		Mineral Specimens	306.45	46	14,096.70
11		Mineral - Large Size (Set of 25)	3154.48	1	3,154.48
12	Rocks - Large Size (Set of 25)	3154.48	1	3,154.48	
13	Magnifying Lens 4" dia with SS Handle	163.16	8	1,305.28	
14	Rock & Volcanoes Model 100 x 75 cm	2066.73	1	2,066.73	
15	Folds & Faults 100 x 75 cm	2066.73	1	2,066.73	
16	Conventional Signs	2066.73	1	2,066.73	
17	Formation of Rocks 100 x 75 cm	2066.73	1	2,066.73	
18	Model of Earthquake 100 x 75 cm	2066.73	1	2,066.73	
19	28-8-2010	Minerals Small Size (Set of 30)	450.00	2	900.00
20		Rocks - Small Size (Set of 30)	450.00	1	450.00
21		Geological Map	959.40	1	959.40
22		Mineral Map	955.80	1	955.80
23		Fault Model	2812.50	1	2,812.50
24		Fold Model	2812.50	1	2,812.50
25	26/7/2014	Wooden Boxes	1600.00	6	9,600.00
26	6/8/2014	Wooden Boxes	1150.00	10	11,500.00
		TOTAL			1,03,689.29

Name of the Lab: CAD & GIS Lab

Total Cost: Rs. **28,46,345.00**

S#	DATE	DESCRIPTION	PRICE	QTY.	COST
1	30-6-2011	Arc View version 10.25 User Lab. Kit on Windows	480000.00	1	4,80,000.00
2	6-7-2011	STAAD Pro V8i BECN Bundle-Perpetual License with IS Design Code-BECN Bundle Consisting of STAAD Pro, STAAD Foundation, Power REBAR, Section Wizard and RAM Concept Software to work on Win SELECT Subscription for 3 Years.	143114.00	1	1,43,114.00
3	30-11-2011	Computers	17980.20	25	4,49,505.00
4	29-10-2012	ArcGIS Desktop Spatial Analyst	88020.00	1	88,020.00

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5	29-10-2012	ArcGIS Desktop 3D Analyst	88020.00	1	88,020.00
		Extension			
6	7/11/2013	BECN Asia Civil Bundle consisting of 1. MX Suite 2.ower Civil 3. Power Map to work on Winxp/Win7	245303.00	1	2,45,303.00
7	7/12/2013	Select Bundle of BECN Civil Bundle Consisting of 1. MX Suite 2.ower Civil 3. Power Map	92967.00	1	92,967.00
8	23-7-2015	Projectors (Epson Multimedia) 3nos, Screens 2 nos, Speakers, 1 TB Hard disk	99990.00	1	99,990.00
9	4/8/2015	Keyboard, + Mouse 6nos, Mouse 6 nos	6000.00	1	6,000.00
10	3/9/2015	HP 1005 LJ Printer	13500.00	1	13,500.00
11	25-08-2016	Acer Desktops	17724.00	25	4,43,100.00
12	20-03-2016	Dell mouse	199.00	15	3,319.00
13	29-08-2016	High Quality HDMI Cable	225.00	1	225.00
14	25-03-2016	Mouse Pad Football Type	50.00	50	2,500.00
15	27-03-2016	Mini Keyboards	300.00	5	1,500.00
16	24-03-2016	Dell USB Keyboards	395.00	4	1,580.00
17	25-03-2016	500 GB HDD WD Elements	3000.00	2	6,000.00
18	22-03-2016	Chestron Electric Blower	699.00	1	699.00
19	18-11-2016	10 Dell Computers	34500	10	3,45,003.00
20	15-10-2016	Inverter For Cad Lab	336000	1	3,36,000.00
		TOTAL			28,46,345.00

Name of the Lab: Concrete & Highway Lab

Total Cost: Rs. **17,69,384.31**

S#	DATE	DESCRIPTION	PRICE	QTY.	COST
1.	16-9-11	Aggregate Crushing Value Test Apparatus	14851.35	1	14,851.35
2.		Aggregate Impact Value Apparatus	14352.19	1	14,352.19
3.		Pycnometer	489.04	3	1,467.12
4.		Thickness Gauge	2923.09	3	8,769.27
5.		Length Gauge	2923.59	3	8,770.77
6.		Ring and Ball Apparatus (Electrically Heated)	13554.84	1	13,554.84
7.		Vicat Needle Apparatus with Dash Pot	2572.76	1	2,572.76
8.		LE-Chatelier Mould	478.41	3	1,435.23
9.		LE-Chatelier Flask	1275.75	3	3,827.25
10.		Le Chatelier Water Bath	11162.81	1	11,162.81
11.		Slump Test Apparatus	3099.01	1	3,099.01
12.		Compacting Factor Apparatus	19295.72	1	19,295.72

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13.		Sieves with GI Frame 300 MM dia X 80, 63, 50, 40, 25, 20, 10, 12.5, 6.3, 4.75, 2.36 mm, Pan & Lid	7016.63	2	14,033.26
14.		Sieves with Brass Frame 200 MM dia X 90 micron, Pan & LID	1913.63	2	3,827.26
15.		Digital Tehrmometer 50 to 280 dec C	1375.42	1	1,375.42
16.		Cube Moulds 70.6 mm	880.27	3	2,640.81
17.		Cube Moulds 50 mm	596.85	3	1,790.55
18.		Mould, Cast Iron, for 150 mm Cube with ISI Certificate Mark	2551.50	6	15,309.00
19.		Density basket	2710.97	1	2,710.97
20.		Tamping Rod, Steel, 16mm	528.16	1	528.16
21.		dia with ISI Certification Mark			
22.		Beam Mould, 100mm x 100mm	5594.59	2	11,189.18
23.		Beam Mould, 100mm x 700mm	10758.83	1	10,758.83
24.		Penetration cone	1403.33	1	1,403.33
25.		Los Angeles Abrasion Machine	105254.99	1	1,05,254.99
26.		Universal Penetrometer	30488.30	1	30,488.30
27.		Bitumen Penetration Kit	1336.79	1	1,336.79
28.		Longitudinal Compress meter Digital	18762.03	1	18,762.03
29.		Ductility Testing Machine with Digital Display	100996.88	1	1,00,996.88
30.		Specific Gravity Bottle	1051.99	3	3,155.97
31.		Digital Rebound Hammer	65812.50	1	65,812.50
32.	3-10-11	Flash Point (Open) and Fire Point Cleveland	12757.50	1	12,757.50
33.		Pensky Martens Flash Point (Closed) Tester (Electrically Operated)	15946.88	1	15,946.88
34.		Cylindrical Mould, Cast Iron, Split Lengthwise 150mm dia X 300 mm high	4890.38	3	14,671.14
35.		Sieve Brass Frame 20 cm dia X 1.70 mm	946.69	2	1,893.38
36.		Sieve Brass Frame 20 cm dia X 3.35 mm	946.69	2	1,893.38
37.		Sieve Brass Frame 20 cm dia X 850 um	946.69	2	1,893.38
38.		Mould, Steel, for 70.6 mm Cube	980.10	6	5,880.60
39.	23-4-13	Air Permeability Apparatus (Blaine type) with ISI Certification mark IS;5516, fitted in Aluminum Box	3875.85	1	3,875.85
40.		Sieve Brass Frame 30 cm dia X 16 mm	645.98	2	1,291.96
41.		Sieve Brass Frame 30 cm dia X 31.5 mm	645.98	2	1,291.96
42.		Sieve Brass Frame 30 cm dia X 2.36 mm	645.98	1	645.98

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43.		Vibration Machine, with built-in Digital Timer, NABL Calibrated	64810.50	1	64,810.50
44.	2/12/2013	Vicat Needle Apparatus with Dash Pot	4703.00	1	4,703.00
45.		Penetration needle	216.00	1	216.00
46.	13/10/2014	Laboratory Concrete Mixer 1 cu.ft capacity, Electrical cum manually operated, Motor HP: 0.5 HP, Single speed Tilting Drum type Regulation: 115-120 p/m	55688.00	1	55,688.00
47.		Accelerated curing tank 12 Moulds of 150mm size	136687.00	1	1,36,687.00
48.		Cube Mould (150 mm)	2126.25	9	1,91,36.25
49.		Cylindrical Mould, Cast Iron, 150mm dia X 300 mm high	3847.50	4	15,390.00
50.		Beam Mould 100X100X500 mm Cast iron	6075.00	4	24,300.00
51.		Vibrating Table IS 2514:1963	36450.00	1	36,450.00
52.		Vee - Bee consistometer	35640.00	1	35,640.00
53.	25-8-2015	L -Box Apparatus	8910.00	1	8,910.00
54.		Gilmore Apparatus	8910.00	1	8,910.00
55.		Marshall Apparatus	100237.00	1	1,00,237.00
56.		Pundit lab Ultra sonic pulse velocity tester	409500.00	1	4,09,500.00
57.		Profoscope & Rebar detector	241973.00	1	2,41,973.00
58.	27-8-2015	Lechatelier moulds	529.00	6	3,174.00
59.		Flow table hand operated	14102.00	1	14,102.00
60.		J Ring Apparatus	24167.00	1	24,167.00
61.		V Funnel Apparatus	8816.00	1	8,816.00
62.		TOTAL			17,69,384.31

Name of the Lab: Environmental Engineering Lab

Total Cost: Rs. **541285.22**

(a) Equipment:					
S #	DATE	DESCRIPTION	PRICE	QT Y.	COST
1	31-12-2010	Digital PH meter (0-14 PH)	4894.88	2	9,789.76
2		Digital Turbidity meter (full range)	5656.30	2	11,312.60
3		Digital Conductivity meter (micro mhos/sec to mhos/sec)	5873.85	2	11,747.70
4		Digital TDS meter (full range)	5656.30	2	11,312.60
5		Drying Oven (12 x 12 x 12 inches) upto 2500 C	7396.70	1	7,396.70
6		Analytical balances (0.00 mg to 200 grams)	2708.50	10	27,085.00
7		Eelectrical Balance (4 digits up to 2 Kg)	59608.70	1	59,608.70

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8		Spectro Photometer (510 mm) (UV-VIS) providing light path of 1 cm length	135968.75	1	1,35,968.75
9		Digital Colorimeter (full range)	5199.45	2	10,398.90
10		Electric Heat Plates	1957.95	2	3,915.90
11		Alum jar Test Apparatus (4 Stirrers with Electric Timer, Speed Counter & Microprocessor Digital RPM)	37940.72	1	37,940.72
12	12-6-2012	BOD Incubator, 179 Liters., 5 ^o C to 50 ^o C)	48750.45	1	48,750.45
		TOTAL (A)			3,75,227.78

(b) Glassware:					
S #	DATE	DESCRIPTION	PRICE	QT Y.	COST
1	31-12-2010	Burettes (50 ml) Plastic	160.76	30	4,822.80
2		Glass	370.64	15	5,559.60
3		Micro Burettes (5 ml)	446.55	20	8,931.00
4		Pipettes, 5 ml	71.45	10	714.50
5		Pipettes, 10 ml	89.31	10	893.10
6		Pipettes, 20 ml	106.28	20	2,125.60
7		Beakers 5 ml	41.08	30	1,232.40
8		Beakers 10 ml	44.66	30	1,339.80
9		Beakers 25 ml	51.80	30	1,554.00
10		Beakers 250 ml	116.10	50	5,805.00
11		Beakers 500 ml	133.97	50	6,698.50
12		Volumetric Flasks 50 ml	160.76	20	3,215.20
13		Volumetric Flasks 100 ml	186.66	50	9,333.00
14		Volumetric Flasks 500 ml	288.47	10	2,884.70
15		Volumetric Flasks 1000ml	434.05	5	2,170.25
16		Volumetric Flasks 2000ml	825.22	5	4,126.10
17		Thermometer: (10 to 500 C Range; Least count 0.10C)	160.76	5	803.80
18		Measuring Cylinders - 100 ml	16.08	20	321.60
19		Measuring Cylinders - 500 ml	53.59	10	535.90
20		Measuring Cylinders - 1000 ml	107.17	5	535.85
21		Wash Bottles (Plastic; 250 ml)	22.33	50	1,116.50

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2 2		Desiccators (6 inches)	3965.36	1	3,965.36
2 3		Suction Flasks (500 ml)	326.87	10	3,268.70
2 4		Glass Rods	392.96	2	785.92
2 5		Spatulas	13.40	50	670.00
2 6		Separating Funnels - 500 ml	759.14	5	3,795.70
2 7		B O D Bottles - 300 ml	339.38	20	6,787.60
2 8		Water Bath (6 holes: Electric)	4286.88	1	4,286.88
2 9		Erlenmeyer Flasks - 100 ml	49.12	10	491.20
3 0		Erlenmeyer Flasks - 250 ml	75.91	10	759.10
3 1		Erlenmeyer Flasks - 500 ml	107.17	10	1,071.70
3 2		Magnetic Stirrers with hotplate	2411.37	2	4,822.74
3 3		Conical Flask (250 ml)	75.91	60	4,554.60
3 4		Porcelain Plates (Std. Size)	17.86	100	1,786.00
3 5		Funnels	54.48	50	2,724.00
3 6		Pipette Stand Horizontal	160.76	4	643.04
3 7		Filter Paper Sheets	1.79	100	179.00
3 8		Bunsen Burner	133.97	10	1,339.70
3 9	16-3-2011	Burette Stands with Clamps	290.00	15	4,350.00
4 0	31-12-2010	Burettes (50 ml) Plastic	160.76	30	4,822.80
4 1	31-12-2010	Glass	370.64	15	5,559.60
4 2	31-12-2010	Micro Burettes (5 ml)	446.55	20	8,931.00
4 3	31-12-2010	Pipettes, 5 ml	71.45	10	714.50
4 4	31-12-2010	Pipettes, 10 ml	89.31	10	893.10
4 5	31-12-2010	Pipettes, 20 ml	106.28	20	2,125.60
4 6	31-12-2010	Beakers 5 ml	41.08	30	1,232.40
4 7	31-12-2010	Beakers 10 ml	44.66	30	1,339.80
4 8	31-12-2010	Beakers 25 ml	51.80	30	1,554.00

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49	31-12-2010	Beakers 250 ml	116.10	50	5,805.00
50	31-12-2010	Beakers 500 ml	133.97	50	6,698.50
51	31-12-2010	Volumetric Flasks 50 ml	160.76	20	3,215.20
52	31-12-2010	Volumetric Flasks 100 ml	186.66	50	9,333.00
53	31-12-2010	Volumetric Flasks 500 ml	288.47	10	2,884.70
54	31-12-2010	Volumetric Flasks 1000ml	434.05	5	2,170.25
55	31-12-2010	Volumetric Flasks 2000ml	825.22	5	4,126.10
56	31-12-2010	Thermometer: (10 to 500 C Range; Least count 0.10C)	160.76	5	803.80
57	31-12-2010	Measuring Cylinders - 100 ml	16.08	20	321.60
58	31-12-2010	Measuring Cylinders - 500 ml	53.59	10	535.90
59	31-12-2010	Measuring Cylinders - 1000 ml	107.17	5	535.85
60	31-12-2010	Wash Bottles (Plastic; 250 ml)	22.33	50	1,116.50
61	31-12-2010	Desiccators (6 inches)	3965.36	1	3,965.36
62	31-12-2010	Suction Flasks (500 ml)	326.87	10	3,268.70
63	31-12-2010	Glass Rods	392.96	2	785.92
64	31-12-2010	Spatulas	13.40	50	670.00
65	31-12-2010	Separating Funnels - 500 ml	759.14	5	3,795.70
66	31-12-2010	B O D Bottles - 300 ml	339.38	20	6,787.60
67	31-12-2010	Water Bath (6 holes: Electric)	4286.88	1	4,286.88
68	31-12-2010	Erlenmeyer Flasks - 100 ml	49.12	10	491.20
69	31-12-2010	Erlenmeyer Flasks - 250 ml	75.91	10	759.10
70	31-12-2010	Erlenmeyer Flasks - 500 ml	107.17	10	1,071.70
71	31-12-2010	Magnetic Stirrers with hotplate	2411.37	2	4,822.74
72	31-12-2010	Conical Flask (250 ml)	75.91	60	4,554.60
73	31-12-2010	Porcelain Plates (Std.Size)	17.86	100	1,786.00
74	31-12-2010	Funnels	54.48	50	2,724.00
75	31-12-2010	Pipette Stand Horizontal	160.76	4	643.04

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7 6	31-12-2010	Filter Paper Sheets	1.79	100	179.00
7 7	31-12-2010	Bunsen Burner	133.97	10	1,339.70
7 8	16-3-2011	Burettes Stands with Clamps	290.00	15	4,350.00
7 9	29-02-2012	Pipettes	130.00	2	260.00
8 0		Pipettes	130.00	3	390.00
8 1		Pipettes	130.00	5	650.00
8 2		Pipettes	130.00	5	650.00
8 3		Droppers	157.00	1	157.00
8 4	23-06-2012	Biotech Made BOD Indicator	48,750.00	1	48,750.00
8 5	20-02-2013	Cuvettes-Quartz for UV-VIS Spectro photo mete	4200.00	1	4,200.00
		Total (B)			1,66,057.44
		Total (A+B)			5,41,285.22

Name of the Lab: Geotechnical Engineering Lab

Total Cost: Rs. **7 91 671.91**

S#	DATE	DESCRIPTION	PRICE	QTY.	COST
1	18-12-2010	Liquid Limi Apparatus, Manually Operated with Counter.	3786.75	2	7,573.50
2		Plastic Limit Apparatus	1697.34	3	5,092.02
3		Shrinkage Limit Apparatus with 750 g Mercury	4814.72	2	9,629.44
4		Core Cutter 100 x 130	2581.88	2	5,163.76
5		Hydrometer	392.06	3	1,176.18
6		Sieves 300 mm GI, 4.75, 2, 1, 0.6, 0.42, 0.3, 0.15, 0.09, 0.075 Pan & Cover	5259.38	2	10,518.76
7		Pycnometer	439.88	3	1,319.64
8		Universal Auto Compactor	121295.53	1	1,21,295.53
9		CBR Apparatus	100363.22	1	1,00,363.22
10		Permeability Apparatus	32703.75	1	32,703.75
11		One Dimensional Consolidation Apparatus	40976.27	1	40,976.27
12		Load Frame 100 KN, 50KN, 5KN Motorized	52211.25	1	52,211.25
13		Hot Air Oven 50-150 C	28209.38	1	28,209.38
14		Direct Shear Apparatus	88883.44	1	88,883.44
15		Electronic Balance, 600gm, with LC 0.01 gm	22878.28	1	22,878.28
16		Moisture Cans 50 x 50	52.59	18	946.62
17		Moisture Cans 50 x 75	62.16	6	372.96
18		Measuring Jars 1000 cc	1420.03	1	1,420.03

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S#	DATE	DESCRIPTION	PRICE	QTY.	COST
19		Measuring Jars 1000 cc	631.13	3	1,893.39
20		Measuring Jars 500 cc	239.06	2	478.12
21		Measuring Jars 100 cc	387.28	1	387.28
22		Measuring Jars 100 cc	124.31	3	372.93
23		Rammer	1864.69	1	1,864.69
24		Rammer	3442.50	1	3,442.50
25		Motorized Sieve Shaker	46473.75	1	46,473.75
26		Liquid Limi Apparatus, Motorized with Counter.	6841.97	1	6,841.97
27	13-01-2011	Sand Pouring Cylinder	3891.94	2	7,783.88
28		Sampling Extractor	4590.00	1	4,590.00
29		Triaxial Cell 38 mm dia	22950.00	1	22,950.00
30		Electronic Balance, 6 Kgs with LC 1 gm	11833.59	1	11,833.59
31	7-03-2011	Laboratory Vane Shear Apparatus	16093.69	1	16,093.69
32	23-4-2013	Speedy Moisture Meter Range 0-50 % (Gauge Div.:1%) with Digital Weing Balance	10513.80	1	10,513.80
33		Infrared Moisture Meter	24012.45	1	24,012.45
34		Camle Hair Brush	33.41	2	66.82
35	2/12/2013	Sieve Brass frames 20cm dia- 2mm,1mm,425 μ ,75 μ	1185.00	4	4,740.00
36	13-10-2014	Compaction Mould 100 mm dia x 127.3 mm height	5062.50	2	10,125.00
37		CBR mould	2784.00	1	2,784.00
38		Proving Ring 2 kN	10023.00	1	10,023.00
39		Hydrometer	1336.34	3	4,009.02
40		Hydrometer Glass Jar	1670.50	2	3,341.00
41	25-8-2015	Sieves 0.425, 0.075	1782.00	2	3,564.00
42		Hydraulic Extruder	16706.00	1	16,706.00
43		Liquid Limit Cone Penetrometer	2450.00	2	4,900.00
44		Dial Gauge	2673.00	2	5,346.00
45		CBR mould with perforated base plate gun metal	14801.00	1	14,801.00
46	27-8-2015	Compression Proving Ring, 2.5 kN	15226.00	1	15,226.00
47		Hydrometer	569.00	3	1,707.00
48		Sieves, 425 , 75 micron	2033.50	2	4,067.00
		TOTAL			7,91,671.91


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Strength of Materials Lab



Concrete and Highway Engineering Lab

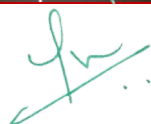

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Geotechnical Engg Lab



Environmental Engineering Lab


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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

EQUIPMENT

Total Lab Equipment Cost: Rs. 128.61 Lakhs

Name of the Lab: POWER ELECTONICS

Total Cost: 24,34,797/-

SL.NO	DESCRIPTION	QTY	COST
1	INPUT POWER MODULE	4	13,753.00
2	FIRING MODULES FOR 1PHASE BRIDGE	2	7,368.00
3	CHOPPER FIRING CIRCUITS	2	7,368.00
4	L.C.MODULE	2	6,876.00
5	SCR MODULES	4	18,648.00
6	INDUCTIVE LOAD (0-25Mh-50Mh-75Mh-100Mh-150Mh)	2	7,859.00
7	Resistive load (230v,5A)	1	3,069.00
8	Resistive load (230v,5A)	1	3,069.00
9	3Phase Resistive load	1	5,625.00
10	Dc Motor as back emf load	1	5,526.00
11	Dc Motor as back emf load	1	5,473.00
12	Digital panel Meter	1	4,944.00
13	SINGLE PHASE CYCLO CONVETER	1	9,968.00
14	SCR PARALLER INVERTER	1	12,940.00
15	Characteristics of SCR,MOSFET,IGBT	1	5,000.00
16	Forced Commutation Circuit Firing with (Class A,B,C,D & E with commutation chopper Circuit)	1	10,000.00
17	3-Phase Half Fully Controlled Bridge Converter	1	16,875.00
18	1-Phase Series Inverter	1	9,600.00
19	1-Phase I/P 3-Phase IGBT PWM Inverter and V/F Control	1	36,375.00
20	1-Phase Half & Fully Controlled Bridge Converter	1	10,125.00
21	1-Phase IGBT Based PWM Inverter	1	20,625.00
22	3-Phase 1KVA Isolation Transformer	1	8,118.00
23	1HP AC Induction Motor	2	9,750.00
24	IGBT Four Quadrant Chopper and DC motor	1	51,776.00
25	DSP BASED Control of 3 Phase Induction Motor	1	1,21,508.00
26	3-Phase Inductive Load	2	22,750.00
27	3-Phase SCR Based Inverter for the speed control of 3-Phase Induction motor (along with motor)	1	49,832.0
28	3-Phase 1Hp AC induction motor	1	5,737.00
29	3-Phase SCR Power Circuit	1	10,280.00
30	Mc Murray Bedford Inverter with R & L Loads	2	24,906.00
31	DSP Based Static krammer Drive	1	2,06,461.00
32	DIGITAL MULTI METER	1	1,539.00
33	DIGITAL MULTIMETER	2	2,310.00
34	DIGITAL MULTI METER	1	1,155.00
35	1-Phase Isolation Transformer	2	12,000.00
36	1-Phase Isolation Transformer	3	18,000.00
37	Rheostat 500Ω/1A	2	1,700.00

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38	Jone's chopper	1	7,950.00
39	CLYCLO CONVERTOR	1	10,950.00
40	PARALLER INVERTER	1	5,990.00
41	JONE'S CHOPPER INCLUDING FIRING CIRCUIT	1	4,907.00
42	SINGLE PHASE CONVERTER FIRNG CIRUCIUTS(CONSUMBALE)	1	7,750.00
43	Gate Firing Circuits R and RC Firing circuits	2	1,622.00
44	Gate Firing Circuits UJT Firing circuits	2	2,393.00
45	Forced Commutation unit	2	11,356.00
46	1phase Dual Converter with R & L load		
47	1Phase Dual Converter Firing Circuit (Consumable)	1	9,750.00
48	3Phase Half Controlled Bridge with Converter with R & L Load	1	29,973.00
49	1-Phase Series Inverter	1	5,556.00
50	JONES CHOPPER	2	22,167.00
51	DC SERIES MOTOR CONTROLLED USING JONES CHOPPER	1	28,968.00
52	SINGLE PHASE CYCLO CONVERTER	2	67,909.00
53	PARALLEL INVERTE	2	27,434.00
54	Characteristics of SCR,MOSFET,IGBT	2	7,305.00
55	R,RC,UJT Firing Circuits for SCR	2	11,335.00
56	1Phase Dual Converter with R & RL Load	1	39,702.00
57	1-Phase Series Inverter	2	21,182.00
58	1-Phase Fully Controlled Bridge Converter with R & RL Load	2	48,902.00
59	1-Phase AC Voltage Controller with R & RL Load	2	31,659.00
60	3-Phase Cyclo Converter	1	55,818.00
61	Speed Control of DC Shunt Motor Using Dual Converter	1	45,032.00
62	Speed Control of Single Phase Induction Motor using Cyclo Converter	1	29,037.00
63	Speed Control of Three Phase Induction Motor Using AC Voltage Controlled	1	48,261.00
64	20Mh Dual Trace Cathode Ray Oscilloscope	4	67,584.00
65	Digital Power Meter	1	2,48,062.00
66	Gate Firing Circuit For SCR's	1	3,015.00
67	3-Phase Fully Controlled Bridge Converter	1	58,950.00
68	1-Phase Fully Controlled Bridge Firing circuit with firing angle variations 180 to 0	1	22,320.00
69	1-Phase AC Voltage Controller	1	8,550.00
70	200Mhz Digital Storage Oscilloscope	1	1,95,000.00
71	Printer Option	1	20,000.00
72	20Mhz Digital Storage Oscilloscope	1	48,000.00
73	150Mhz Digital Storage Oscilloscope	1	95,000.00
74	20Mhz Power Oscilloscope	10	1,95,000.00
75	20Mhz Digital Storage Oscilloscope	2	46,000.00
76	Digital IC Tester	1	12,000.00
77	Analog IC Tester	1	12,000.00
78	FUNCTION GENERATOR	1	3,800.00
79	Regulated Power Supply	3	16,500.00
80	Multi Meter	6	14,700.00

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81	Regulated Power Supply	1	4,500.00
82	Single Phase auto Transformer	3	12,000.00

Name of the Lab: ELECTRICAL MACHINES LAB-I

Total Cost: 19,37,706/

SL.NO	DESCRIPTION	QTY	COST
1	DC SHUNT GENERATOR COUPLED WITH DC SHUNT MOTOR	1	44,600.00
2	DC SHUNT GENERATOR COUPLED WITH AC GENERATOR	1	51,960.00
3	DC SHUNT MOTOR WITH LOADING ARRANGEMENT	1	23,460.00
4	AC SQ CAGE 3-PHASE INDUCTION MOTOR	1	15,460.00
5	3-PHASE SYNCHRONOUS MOTOR	1	43,460.00
6	AC SERVO CONTROLLED RECTIFIER	1	58,600.00
7	AC DISTRIBUTION BOARD	1	18,600.00
8	DC DISTRIBUTION BOARD	1	18,460.00
9	1-PHASE TRANSFORMER 3KVA	2	13,200.00
10	1-PHASE TRANSFORMER 2KVA	2	11,320.00
11	3-PHASE AUTO TRANSFORMER	1	12,600.00
12	1-PHASE BOOSTER TRANSFORMER 2A	3	10,980.00
13	1-PHASE PORTABLE DIMMER STARTER 2A	4	5,440.00
14	1-PHASE PORTABLE DIMMER STARTER 4A	2	4,120.00
15	1-PHASE PORTABLE DIMMER STARTER 8A	2	5,360.00
16	1-PHASE WATTMETER LPF 75-150-300	2	13,720.00
17	1-PHASE WATTMETER LPF 150-300-600	2	13,720.00
18	1-PHASE WATTMETER LPF 125-250-500	2	13,720.00
19	1-PHASE WATTMETER UPF 75-150-300	2	11,720.00
20	3-PHASE WATTMETER 150-300-600	2	11,720.00
21	KNIFE EDGE SWITCHES DPST 250V-60A	16	6,656.00
22	TPST 250V-60A	9	4,734.00
23	SPST 250V-60A	3	2,484.00
24	TPST 250V-60A	3	1,980.00
25	DIGITAL TACHOMETER	4	8,280.00
26	VOLTEMETER(30-60MI)	4	3,384.00
27	VOLTEMETER(150-300MI)	4	3,264.00
28	VOLTEMETER(75-150-300MI)	4	3,384.00
29	VOLTEMETER(15-30MC)	5	4,130.00
30	VOLTEMETER(30-60DC)	5	4,130.00
31	VOLTEMETER(75-150-300DC)	5	4,230.00

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32	VOLTEMETER(150-300DC)	6	4,956.00
33	AMMETER(1-2A DC)	5	4,130.00
34	DC AMMETER 5-10A	6	4,956.00
35	DC AMMETER 10A	6	4,716.00
36	DC AMMETER 10-20A	5	4,130.00
37	DC AMMETER 10-20A	1	826.00
38	DC AMMETER 20A	5	4,130.00
39	DC AMMETER 25-50A	5	4,130.00
40	AMMETER(1-2A AC)	5	4,080.00
41	AMMETER(5-10A AC)	5	4,080.00
42	AMMETER(5-10A AC)	5	4,080.00
43	RHEOSTAT 5 OHMS-8A	2	980.00
44	RHEOSTAT 29 OHMS-4.1A	3	978.00
45	RHEOSTAT 200 OHMS-1.5A	3	948.00
46	RHEOSTAT 350 OHMS-1.2A	4	1,840.00
47	3-PHASE LOADING RHEOSTAT	1	6,260.00
48	1-PHASE LOADING RHEOSTAT	1	4,360.00
49	DC SHUNT MOTOR COUPLED WITH DC SHUNT GENERATOR	1	42,296.00
50	DC SHUNT MOTOR COUPLED WITH ALTERNATOR	2	83,720.00
51	5HP DC SHUNT MOTOR	1	22,880.00
52	7.5HP 3-PHASE SLIP RING INDUCTION MOTOR	1	26,560.00
53	5HP DC COMPOUND MOTOR	1	22,880.00
54	5HP DC COMPOUND MOTOR COUPLED WITH 3KW COMPOUND GENERATOR	1	35,480.00
55	DC SERIES MOTOR	1	20,250.00
56	1.5HP 1-PHASE INDUCTION MOTOR	1	11,700.00
57	3 POINT STARTER	5	9,400.00
58	2 POINT STARTER	1	1,800.00
59	3 PHASE DOL STARTER	2	2,200.00
60	FIELD REGULATORS	3	3,150.00
61	DC SHUNT MOTOR COUPLED WITH 2.2KW SHUNT GENERATOR	1	52,650.00
62	7.5HP DC SHUNT MOTOR COUPLED WITH 5KVA SALIENT POLE ALTERNATOR	1	1,08,675.00
63	3HP DC SHUNT MOTOR	2	63,900.00
64	3 PHASE 5HP SQ CAGE INDUCTION MOTOR	2	54,562.00
65	3-PHASE AUTO SYNCHRONOUS MOTOR	1	36,000.00
66	5HP DC SHUNT MOTOR COUPLED WITH 3HP DC COMPOUND GENERATOR	1	77,600.00
67	5HP DC SHUNT MOTOR COUPLED WITH 2.2KW DC COMPOUND GENERATOR	1	87,300.00

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68	3HP DC SERIES MOTOR	1	33,075.00
69	1- PHASE TRANSFORMER 2KVA	2	9,080.00
70	3-PHASE VARIAC 20A	1	18,360.00
71	WATTMETER 75-150-300V/5A LPF	2	8,610.00
72	1-PHASE WATTMETER 75-150-300V/10-20A UPF	4	7,500.00
73	WATTMETER 75-150-300V/10-20A UPF	8	16,472.00
74	WATTMETER 250-500V/5-10A UPF	4	8,236.00
75	WATTMETER 250-500V/10-20A UPF	2	4,118.00
76	3-PHASE DYNAMO WATTMETER 300-600V/10-20A	2	7,390.00
77	ANALOG TACHOMETER	2	8,000.00
78	VOLTMETER 30-60MI	2	2,160.00
79	VOLTMETER 250-500MI	2	2,160.00
80	AMMETER 1-2AMI	2	2,160.00
81	AMMETER 10-20AMI	2	2,160.00
82	TABULAR RHEOSTAT 30 OHMS- 4.5A	2	2,140.00
83	TABULAR RHEOSTAT 360 OHMS -1.2A	2	1,290.00
84	3-PHASE AUTO TRANSFORMER	3	54,000.00
85	AC VOLTMETER 150-300	6	7,500.00
86	AC VOLTMETER 75-150	6	7,500.00
87	AC VOLTMETER 300-600	6	7,500.00
88	PORTABLE DC AMMETER1-2A	10	13,700.00
89	PORTABLE DC AMMETER5-10A	5	6,850.00
90	PORTABLE DC AMMETER10-20A	6	8,220.00
91	AC AMMETER 1-2A	10	12,500.00
92	PORTABLE AC AMMETER5-10A	4	5,000.00
93	PORTABLE AC AMMETER10-20A	6	7,500.00
94	3-PHASE LOADING RHEOSTAT	1	11,500.00
95	1-PHASE LOADING RHEOSTAT 3KW	2	13,000.00
96	3 POINT STARTER 5HP	8	16,000.00
97	3 POINT STARTER 7.5HP	2	5,400.00
98	3 POINT STARTER	5	10,500.00
99	4 POINT STARTER 5HP	2	4,200.00
100	WATTMETER LPF 150-300-600V-5-10A	4	17,280.00
101	VOLTMETER MC 15-30V	6	7,860.00
102	VOLTMETER MC 30-60V	6	7,860.00
103	VOLTMETER MC 75-150-300V	6	7,860.00
104	VOLTMETER MC 150-300V	6	7,860.00
105	SPST WITH BOX	1	450.00

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106	SPST 32A	5	1,000.00
107	DPST 32A	20	7,000.00
108	SPDT WITH BOX	1	520.00
109	SPN MAIN SWITCH 15A	15	2,550.00
110	TPN MAIN SWITCH 16A	10	5,590.00
111	2 POLE ISOLATOR SWITCHES 16A	15	3,071.00
112	4 POLE ISOLATOR SWITCHES 46A	10	4,715.00
113	2 POLE ENCLOSER	15	825.00
114	4 POLE ENCLOSER	10	950.00
115	DIGITAL TACHOMETER	1	1,750.00
116	DIGITAL TACHOMETER NON CONTACT	1	2,500.00
117	DIGITAL TACHOMETER CONTACT	3	5,940.00
118	DIGITAL TACHOMETER NON CONTACT	3	5,940.00
119	RHEOSTAT 360 OHMS 1.2A	6	10,440.00
120	RHEOSTAT 300 OHMS 1.2A	6	14,860.00
121	RHEOSTAT 570 OHMS 1.2A	10	22,200.00
122	DIGITAL MULTIMETER	15	18,225.00
123	REGULATOR TRANSISTORISED DC POWER SUPPLY	6	25,920.00
124	DIGITAL DC VOLTMETER 0-2V	5	3,250.00
125	DIGITAL DC VOLTMETER 20V	5	3,250.00
126	DIGITAL DC AMMETER 0-200uA	5	3,250.00
127	DIGITAL DC AMMETER 0-200mA	5	3,250.00
128	DIGITAL DC AMMETER 0-20mA	5	3,250.00
129	DIGITAL DC AMMETER 0-2A	5	3,250.00
130	BREADBOARD	5	1,944.00
131	ANALOG DC AMMETER 100uA	10	6,500.00
132	ANALOG DC AMMETER 5mA	5	3,250.00
133	ANALOG DC AMMETER 100mA	20	13,000.00
134	ANALOG DC VOLTMETER 0-2V	10	6,500.00
135	ANALOG DC VOLTMETER 0-20V	5	3,250.00
136	ANALOG DC VOLTMETER 0-30V	15	9,750.00
137	DECADE RESISTANCE BOX	15	14,175.00
138	DECADE CAPACITANCE BOX	15	21,262.00
139	DECADE INDUCTANCE BOX	15	23,625.00
140	SINGLE OPEN TYPE RHEOSTAT 500 OHMS 1.2A	4	6,144.00
141	DESIGN MANUFACTURING SUPPLY AND ERECTION OF LT PANEL BOARD	1	3,04,000.00

Name of the Lab: ELECTRICAL MACHINES LAB-II

Total Cost: 19,71,816/-

S.No	Description	Qty	Cost
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1	DC SHUNT GENERATOR 3 KW COUPLED WITH DC SHUNT MOTOR 5 H.P MAKE: BHEL	1	66,000.00
2	DC SHUNT GENERATOR 3 KW COUPLED WITH DC SHUNT MOTOR 5 H.P MAKE: BENN	1	75,150.00
3	DC SHUNT MOTOR 5 H.P COUPLED WITH DC COMPOUND GENERATOR MAKE: BENN	1	74,790.00
4	DC SHUNT MOTOR WITH LOADING ARRANGEMENT WITH LOADED ROUND DIALS CALES AND FRICTION BELT FOR TORQUE MEASUREMENT	1	45,760.00
5	DC SHUNT MOTOR WITH LOADING ARRANGEMENT	1	33,000.00
6	DIGITAL HAND HELD CENTRAL TYPE TACHO METERS	3	19,500.00
7	DC SHUNT MOTOR 5 HP COUPLED TO DC SHUNT GENERATOR	1	75,520.00
8	DC COMPOUND MOTOR WITH LOADING ARRANGEMENT MAKE: BENN	1	45,760.00
9	DC SERIES IDENTICAL COUPLED MACHINES MAKE; BENN	1	39,830.00
10	DC SHUNT MOTOR 5 HP WITH FLY WHEEL MOUNTED ON SHAFT	1	39,830.00
11	AIR COOLED TYPE RECTIFIER 220V,100A	1	1,40,000.00
12	AIR COOLED AUTO TRANSFORMER OF SINGLE PHASE 15A	2	19,600.00
13	5 HP AUTO SYNCHRO	1	56,510.00
14	5HP DC SHUNT MOTOR COUPLED TO 3 KVA ALTERNATOR	2	1,65,000.00
15	3 HP CSCR SCIM	1	32,180.00
16	5 HP SRIM	1	49,670.00
17	2A SEPARATE EXCITATION UNIT FOR ALTERNATOR	1	7,580.00
18	SINGLE PHASE TRANSFORMER 2KVA CLOSED TYPE	5	52,700.00
19	SINGLE PHASE TRANSFORMER 2KVA FOR SCOTT CONNECTION	2	24,180.00
20	AUXILLARY TRANSFORMER	1	9,080.00
21	SINGLE PHASE RESISTIVE LOADING 5KW.20A	2	22,000.00
22	THREE PHASE 5A INDUCTIVE LOAD	1	40,650.00
23	ROTOR RESISTANCE STARTER	1	16,630.00
24	SPST SWITCH 30A	1	960.00
25	DPST SWITCH 30A	1	1,820.00
26	RHEO START	2	6,048.00
27	RHEO START STUD 360 OMH,1.2A	5	5,824.00
28	STEAD RHEO START	3	4,368.00
29	STED RHEO START	2	6,048.00
30	THREE POINT STARTER	2	5,600.00
31	SINGLE PHASE TRANSFORMER 2KVA,230V.	1	10,500.00
32	PORTABLE MC DC VOLTMETER.150V,300V	4	5,800.00
33	MECO PORTABLE MC DC AMMETER 1,2A	2	2,900.00

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34	MECO PORTABLE MC DC AMMETER 10,20A	4	5,800.00
35	MECO PORTABLE SINGLE PHASE UPF WATT METER(150V,300V,600V,10A,5A0	2	4,800.00
36	MECO PORTABLE SINGLE PHASE LPF WATT METER(75V,150V,2.5A,5A)	2	9,600.00
37	TWO POINT STARTER	1	2,730.00
38	THREE POINT STARTER	6	16,380.00
39	FOUR POINT STARTER	1	2,730.00
40	5HP DC SHUNT MOTOR COUPLED TO 3.5 KVA ALTERNATOR	1	66,000.00
41	MS BASE PLATE WITH LOVEJOY FLEXIBLE COUPLING	1	10,500.00
42	THREE PHASE SQUIRREL CAGE INDUCTION MOTOR BASER PLATE MECHANICAL LOADING ARRANGEMENT	1	14,500.00
43	MS BASE PLATE WITH mechanical loading arrangement	1	10,500.00
44	SINGLE PHASE 20A AUTO TRANSFORMER 230-0-270V	1	9,070.00
45	SINGLE PHASE AUTO TRANSFORMER 10A	3	17,430.00
46	3-PHASE,4A AUTO TRANSFORMER 415-0-470V	1	13,950.00
47	3-PHASE,8A AUTO TRANSFORMER 415-0-470V	1	16,860.00
48	3-PHASE,6A AUTO TRANSFORMER 415-0-470V	2	30,220.00
49	DIGITAL TACHO METER	3	6,600.00
50	1-PHASE WIRE WOUND RESISTANCE LOAD	1	19,130.00
51	RHEOSTART 350-OHM/1.7A	4	9,520.00
52	DUAL RANGE PORTABLE VOLT METER 150,300V MC DC	6	10,080.00
53	DUAL RANGE PORTABLE VOLT METER 150,300V MI AC	4	6,120.00
54	DUAL RANGE PORTABLE VOLT METER 250,600V MI AC	4	6,120.00
55	DUAL RANGE PORTABLE VOLT METER 300,600V MI AC	8	12,240.00
56	TRIPLE RANGE PORTABLE VOLT METER	5	7,950.00
57	DUAL RANGE PORTABLE AMMETER WITH INTERNAL SHUNT MCDC RANGE V 10,20A	6	10,620.00
58	DUAL RANGE PORTABLE AMMETER MIAC 0-1,2A	4	6,120.00
59	DUAL RANGE PORTABLE AMMETER MIAC 0-5,10A	5	7,650.00
60	DUAL RANGE PORTABLE AMMETER MIAC 0-10,20A	5	7,650.00
61	PORTABLE MI AC VOLTMETER.150V,300V	2	2,900.00
62	PORTABLE MI AC VOLTMETER.300V,600V	2	2,900.00
63	PORTABLE MI AC AMMETER 1,2A	2	2,900.00
64	PORTABLE MI AC AMMETER 5,10A	2	2,900.00
65	1-PHASE UPF WATT METER 150,300,600V 5,10A	4	8,232.00
66	WATT METER 10,20A 300,600VUPF	2	8,290.00
67	WATT METER 5,10A 250,500VUPF	2	8,290.00
68	WATT METER 2.5,5A,75,150,300V LPF	4	17,056.00
69	STED RHEO START 360-OHM/1.2A	1	1,456.00
70	RHEO START FOR MOTOR 250-OHM/2A	3	7,140.00

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71	RHEO START 350-OHM/1.7A	2	3,536.00
72	THREE POINT STARTER	1	3,800.00
73	THREE POINT STARTER	2	5,880.00
74	DOL STARTER INTERLOCKED WITH SEPARATE EXCITATION UNIT	1	14,390.00
75	20A SPST SWITCH	2	2,080.00
76	RHEO START 360-OHM/1.2A	1	1,456.00
77	DIGITAL HANDLED CONTACT TYPE TACHO METER	3	19,500.00
78	THREE POINT STARTER	1	3,800.00
79	REGULATED POWER SUPPLY 0-30V,2A DUAL CHANNEL	18	99,000.00
80	TRANSFORMERS 230V/12-0-12V CENTER TOPPED 500mA	6	900.00
81	VARIABLE INDUCTOR 0-150ma/5A	1	3,500.00
82	DECADE RESISTANCE BOX 0-10KOHM	5	9,000.00
83	FUNCTION GENERATOR 1MHz	3	11,400.00
84	DECADE CAPACITANCE BOX (0-100μF)	5	10,000.00
85	VOLT METER (0-30V) MC	14	23,240.00
86	VOLT METER (0-2V) MC	2	3,320.00
87	VOLT METER (DESKTOP) 0-30V MI	3	4,980.00
88	VOLT METER (DESKTOP) 0-300V MI	1	1,660.00
89	AMMETER(DESKTOP) 0-30ma MC	15	10,920.00
90	AMMETER(DESKTOP) 0-10ma MC	14	10,192.00
91	AMMETER (DESKTOP) 0-100maMC	1	728.00
92	AMMETER (DESKTOP) 0-500maMC	1	728.00
93	AMMETER (DESKTOP) 0-300μA MC	1	728.00
94	AMMETER (DESKTOP) 0-100μA MC	1	728.00
95	AMMETER (DESKTOP) 0-10MA MI	1	728.00
96	CRO 30MHz	2	35,000.00
97	MULTI METERS	15	27,000.00
98	R P S	6	33,000.00
99	TRANSFORMER	4	600.00
100	VARIABLE INDUCTOR	1	3,500.00
101	DRB	5	9,000.00
102	DCB	5	10,000.00
103	FUNCTION GENERATORS	1	3,800.00

Name of the Lab: Electrical Simulation Lab

Total Cost: 24,40,807/-

S.No	DESCRIPTION	Qty	COST
1	FIXED POINT TOOL BOX	1	19,800.00
2	SIGNAL PROCESSING BLOCKSET	5	47,750.00
3	COMMUNICATION BLOK SET	5	47,750.00

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4	RF BLOCKSET	1	19,800.00
5	VIDEO AND IMAGE PROSSING BLOCKSET	1	19,800.00
6	EMBEDDED TARGET FOR TI C6000 DSP	1	49,500.00
7	SYSTEM IDENTIFICATION TOOL BOX	1	19,800.00
8	CURVE FITTING TOOL BOX	1	19,800.00
9	FUZZY LOGIC TOOL BOX	1	19,800.00
10	OPTIMIZATION TOOL BOX	1	19,800.00
11	PARTIAL DIFFERENTIAL EQUATION TOOL BOX	1	19,800.00
12	STATICS TOOL BOX	1	19,800.00
13	CONTROL SYSTEM TOOL BOX	5	47,750.00
14	SIMPOWER SYSTEM	5	1,19,000.00
15	SIMULATION CONTROL DESIGN	1	19,800.00
16	NEURAL NETWORK TOOL BOX	5	47,750.00
17	ROBUST CONTROL TOOL BOX	1	19,800.00
18	FILTER DESIGN HDL CODER	1	19,800.00
19	IMAGE ACQUISITION TOOL BOX	1	19,800.00
20	MAPPING TOOL BOX	1	19,800.00
21	REAL TIME WORK SHOP	1	49,500.00
22	PSIM 7.0	5	2,75,000.00
23	POWER WORLD SIMULATOR 12.0	1	3,63,636.00
24	ETAP VERSION 5.5.5	5	1,95,000.00
25	LG EXTERNAL DVD RIGHTER	1	1,950.00
26	1TB EXTERNAL HARD DISK	1	4,950.00
27	PRINTER HP3030	1	20,400.00
28	CANON LBP 2900B LASER PRINTER	2	13,998.00
29	DELL COMPUTERS OPTIPLEX 3040	20	6,40,000.00

Name of the Lab: CONTROL SYSTEMS LAB

Total Cost: Rs. 17,85,781/-

S. No	Brief Description of the Equipment	Qty.	Cost (Rs)
1.	D.C.Position control system and permanent magnet D.C motor	2	48,000.00
2.	Synsχρο Transmitter & Receiver	2	32,392.00
3.	Compensation Design	2	22,480.00
4.	Signal Generator	5	52,000.00
5.	Closed loop D.C.Servo Motor Speed Controller	1	7,875.00
6.	Two Phase AC Servo motor Speed Control and Transfer Function Study Trainer	2	25,200.00
7.	Advanced PLC Trainer	2	1,20,000.00
8.	Speed Control of a motor (PMDC Motor)	1	12,000.00
9.	Speed Control of Stepper Motor	1	12,000.00
10.	Stepper Motor Characteristics Study Module	2	19,288.00
11.	Arbitrary Function Generator	1	2,10,000.00

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12.	DSPTrainer	2	83,200.00
13.	Spartan 3 FPGA Based Development Kit	2	67,490.00
14.	1.2 HP AC Induction Motor with mechanical loading arrangement power module and software	1set	1,03,045.00
15.	750 Watts Permanent magnet AC Synchronous motor with mechanical loading arrangement power module and software	1-set	1,15,762.00
16.	750 watts Brushless DC Motor with mechanical loading arrangement power module with software (BLDC Motor)	1-set	1,21,275.00
17.	1HP switched Reluctance motor with Electrical loading power module and software (SRMOTOR)	1-set	2,09,475.00
18.	PID Controller	1	11,015.00
19.	D.C.Position Control System	1	15,835.00
20.	A.C.Syncro Set	1	10,861.00
21.	A.C .Synchro Control Transformer	1	7,405.00
22.	20Mhz Dual Trace Oscilloscope	4	67,548.00
23.	D.C.Position Control	1	21,233.00
24.	Synchro Characteristics	1	14,846.00
25.	Magnetic Amplifier Characteristic	1	16,143.00
26.	Compensation Design	1	12,361.00
27.	Time Response of Second order system	1	11,343.00
28.	D.C Servo Motor Speed Torque Characteristics	1	17,389.00
29.	Simulation of Transfer Function using op-Amp	1	11,343.00
30.	Function Generators	8	68,620.00
31.	Digital Multi Meters Cie Make , Model # 122	12	29,400.00
32.	30MHz Dual Channel CRO model no - 801	5	97,500.00
33.	Function Generators 1 MHz Model : FG 1	5	20,000.00
34.	R.P.S (0-30V DC, 2A; Dual Channel) model :302	8	36,000.00
35.	Decade Capacitance Box	2	4,200.00
36.	Decade inductance box	2	4,167.00
37.	PID Controller (Analog Type)	1	30,300.00
38.	D C Servo Motor Speed Torque characteristics	1	26,580.00
39.	Study of Compensation network	1	25,030.00

Name of the Lab: ELECTRICAL MEASUREMENTS

Total Cost: 9,94,347/-

S.No.	DESCRIPTION	QTY.	COST
1.	3-phase Loading rheostat	1	11,500.00
2.	1-Phase Loading rheostat	1	6,500.00
3.	3-Phase Loading capacitor	1	11,800.00

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4.	1-Phase Loading capacitor	1	8,300.00
5.	3-Phase Loading Inductor	1	22,300.00
6.	1-Phase Loading Inductor	1	8,050.00
7.	1-Phase Auto transformer	2	8,200.00
8.	1-Phase Auto transformer	6	36,000.00
9.	Current transformer	2	3,720.00
10.	Current transformer	2	3,720.00
11.	Portable wattmeter LPF	3	12,915.00
12.	Portable wattmeter UPF	2	4,118.00
13.	Portable power factor meter	2	6,520.00
14.	Ammeter MI	2	2,160.00
15.	Ammeter MC	1	1,250.00
16.	Ammeter MI	4	5,000.00
17.	Ammeter	2	4,046.00
18.	Wire wound rheostats	10	7,150.00
19.	Wire wound rheostats	10	9,050.00
20.	Wire wound rheostats	10	34,750.00
21.	Wire wound rheostats	10	10,200.00
22.	Wire wound rheostats	20	28,900.00
23.	Power supply DC	2	2,023.00
24.	DC Power supply	2	2,023.00
25.	Voltmeter	2	2,023.00
26.	Voltmeter	1	826.00
27.	Voltmeter	1	826.00
28.	Wire wound rheostat	2	2,023.00
29.	DC Power supply	2	11,460.00
30.	Capacitive Pick-up	1	18,030.00
31.	Strain Guage Mouldle	1	14,025.00
32.	Ammeter	2	2,023.00
33.	AE Power Factor Meter	1	63,745.00
34.	Andersons bridge	1	8,700.00
35.	Andersons bridge	2	12,010.00
36.	Volt ratio box	1	5,575.00
37.	Volt ratio box	2	9,768.00
38.	Desauty bridge	1	5,910.00
39.	Schering Bridge	2	10,060.00
40.	Decade condenser boxes	5	27,325.00
41.	Decade inductances boxes	10	59,200.00
42.	Dial type resistance boxes	5	29,300.00
43.	Dial type resistance boxes	5	38,100.00
44.	Crompton DC Potentiometer	2	18,560.00
45.	Electronic standard cell	2	5,562.00
46.	DC Current shunt	2	5,060.00
47.	Industrial Kelvin double	2	36,978.00
48.	Spot reflecting galvanometers	2	12,108.00
49.	Super sensitive galvanometer	4	4,100.00
50.	Resistance Coils	8	1,197.00
51.	Resistance Coils	8	3,872.00

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52.	Andersons bridge	1	8,530.00
53.	Volt ratio box	1	8,060.00
54.	Schering Bridge	1	8,680.00
55.	Crompton DC Potentiometer	1	7,750.00
56.	Kelvin double	1	8,530.00
57.	LVDT MODULE-IT 5A	1	16,042.00
58.	Study Capacitive Pick-up	1	6,271.00
59.	Strain Guage Moudle	1	10,906.00
60.	Current transformer	1	850.00
61.	Current transformer	2	1,214.00
62.	Phase shifting transformer	1	29,671.00
63.	Ammeter MI	2	1,660.00
64.	Ammeter MI	4	6,120.00
65.	Voltmeter MI	2	3,060.00
66.	Wattmeter LPF	4	17,056.00
67.	Wattmeter UPF	4	8,832.00
68.	Voltmeter MI 300/600	5	7,650.00
69.	Voltmeter MI 250/500	4	6,120.00
70.	Voltmeter MI 150/300	3	4,590.00
71.	Voltmeter MI 75/150/300	5	7,950.00
72.	Precision Current transformer	1	3,654.00
73.	3 Phase 10A Resistive Load	1	35,650.00
74.	1 Phase 20A Loading Rheostats	2	22,000.00
75.	3 Phase Loading Inductor	1	40,650.00
76.	1-Phase Loading Inductor	1	20,950.00
77.	1-Phase Auto transformer	2	31,780.00
78.	Wire wound rheostats	2	4,420.00
79.	Wire wound rheostats	3	7,140.00

Name of the Lab ELECTRONIC DEVICES & CIRCUITS Total Cost: 7,18,867/-

S.NO.	DESCRIPTION	QTY.	COST
1.	20MHz Oscilloscope.GOS-620	10	1,55,000.00
2.	20MHz Oscilloscope.GOS-620(with component tester)	5	82,500.00
3.	Dual Regulated power supply 30V/2A	20	63,640.00
4.	Function Generator 1Mhz	25	1,63,800.00
5.	Decade Resistance Boxes(0 to 1M ohms)	10	10,290.00
6.	Decade Inductance Boxes(100μH to 10 μH)	10	13,470.00
7.	Decade Capacitance Boxes(100pf to 10 pf)	10	14,500.00
8.	Digital multi meter	20	27,900.00
9.	DC Voltmeters (Portable)30V	10	6,550.00
10.	AC Voltmeters (Portable)50V	10	5,610.00
11.	DC Ammeters(Portable)250mA	10	7,480.00
12.	DC Voltmeters (Portable)1V	5	3,275.00
13.	DC Voltmeters (Portable)2V	10	6,550.00
14.	DC Voltmeters (Portable)10V	5	3,275.00

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15.	DC Voltmeters (Portable)30V	15	9,825.00
16.	AC Voltmeters (Portable)30V	10	5,610.00
17.	DC Ammeters(Portable)1mA	5	3,740.00
18.	DC Ammeters(Portable)10mA	7	5,236.00
19.	DC Ammeters(Portable)30mA	20	14,960.00
20.	DC Ammeters(Portable)50mA	20	14,960.00
21.	DC Ammeters(Portable)100mA	15	11,220.00
22.	DC Ammeters(Portable)500mA	10	7,480.00
23.	DC Ammeters(Portable)50 μ A	2	1,496.00
24.	DC Ammeters(Portable)100 μ A	20	14,960.00
25.	DC Ammeters(Portable)500 μ A	10	7,480.00
26.	Digital multi meter	6	14,700.00
27.	FUNCTION GENERATORS	6	24000.00
28.	DC (Desktop) Voltmeter (0-30V)	5	4400.00
29.	DC (Desktop) Ammeter (0-30mA)	12	10,560.00
30.	DC (Desktop) Ammeter (0-50MicroA)	5	4400.00

Name of the Lab: Power Systems Lab

Total Cost: 2,86,344/-

S.No	Description	Qty	Cost
1.	IDMT Over current relay	1	19,052.80
2.	IDMT Over current relay	1	19,052.80
3.	Directional over current relay	1	21,679.43
4.	Percentage Differential Relay with Phase shifting transformer	1	82,955.25
5.	1-phase inverse time over current realy	1	30,285.25
6.	Static overcurrent relay(Microprocessor based)	1	24,886.57
7.	Load Transformers	1	40,950.00
8.	1-PHASE loading rheostat	1	15,300.00
9.	1-Phase auto transformer-2	1	11,000.00
10.	3-PHASE T/F	1	16,235.00

Name of the Lab: MICROPROCESSORS & MICROCONTROLLERS LAB

Total Cost: 1,91,120/-

SL.NO	DESCRIPTION	QTY.	COST
1	Microprocessor (8086)	15	84,000.00
2	Microcontrollers (8051/31)	15	93,000.00
3	7 SEGMENT ROLLING DISPLAY	2	3,400.00
4	A TO D CONVERTER	2	3,000.00
5	D TO A CONVERTER	2	2,250.00

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6	TRAFFIC LIGHT CONTROLLER	2	1,400.00
7	STEPPER MOTOR	2	4,070.00

Name of the Lab: BASIC ELECTRICAL LAB


Total Cost: Rs.99,730/-

S. No	Brief Description of the Equipment	Qty.	Cost (Rs)
1.	RPS	9	49,500.00
2.	TRANSFORMERS	4	600.00
3.	FUNCTION GENERATORS	1	3,800.00
4.	VOLTMETER (0-30V) (SUN SEAS)	5	4,400.00
5.	AMMETER (0-30MA) (SUN SEAS)	5	4,400.00
6.	AMMETER (0-10MA) (SUN SEAS)	2	1,760.00
7.	AMMETER (0-100MA) (SUN SEAS)	4	3,520.00
8.	DIGITAL MULTI METERS(MULTI TECH)	5	12,250.00
9.	CRO 30MHz (LOKESH)	1	19,500.00




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DEPARTMENT OF MECHANICAL ENGINEERING

EQUIPMENT

Total Lab Equipment & Software Cost: Rs. 170.99 Lakhs

Name of the Lab: **CAD/ CAM LAB**

Total Cost: Rs. 66,52,345.00/-

S. No	Brief Description of the Equipment	Qty.	Procurement Cost (Rs)
1.	Auto CAD 2004 Auto CAD[2014] AICTE Downloaded	1	38,480.00
2.	Auto desk Mechanical Educational solution set	11	6,59,720.00
3.	Pro-Engineer (Wild fire 3.0)	50	4,82,000.00
4.	Pro-Engineer (Wild fire 5.0)	50	3,80,000.00
5.	Ansys 7.0 Upgrade to Ansys 11.0	05	1,20,000.00 44,500.00
6.	Ansys 17.0	50	5,00,000.00
7.	Edge CAM 12.5 Upgrade to Edge CAM 2014 R2	05	93,600.00 50,966.00
8.	Cut viewer TURN	10	96,390.00
9.	Cut viewer Mill	10	
10.	Den ford simulation software	06	75,000.00
11.	Workspace Software	01	1,10,000.00
12.	CNC XL TURN With STD. Accessories	01	3,36,000.00

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13.	CNC XL MILL With STD. Accessories	01	6,76,362.00
14.	6-Axis Aristo ROBOT	01	4,14,550.00
15.	Flashforge Dual Extruder 3D Printer	01	1,08,728.00
16.	3D Pen	01	
17.	IBM- THINK CENTRE COMPUTER: ➤ CPU- Intel Pentium 4, 3 GHz ➤ RAM- 512MB ➤ Hard Disk – 80 GB ➤ 107 Key Board, Optical Mouse ➤ 15" Color Monitor	33	10,06,500.00
18.	HP COMPUTERS: ➤ CPU- Intel Pentium 4, 3 GHz ➤ RAM- 512MB ➤ Hard Disk – 80 GB ➤ 107 Key Board, Optical Mouse ➤ 15" Color Monitor	02	56,600.00
19.	IBM/ LENOVO THICK CENTRE COMPUTERS: ➤ CPU- Intel Pentium 4, 3 GHz ➤ RAM- 512MB ➤ Hard Disk – 80 GB ➤ 107 Key Board, Optical Mouse ➤ 15" Color Monitor	10	2,64,490.00
20.	DELL COMPUTERS: ➤ CPU- Intel – Dual Core processor,3 GHz ➤ RAM- 2GB ➤ Hard Disk – 500 GB ➤ 107 Key Board, Optical Mouse ➤ 17" LCD Color Monitors	25	6,67,500.00
21.	DELL COMPUTERS: ➤ Optiplex-3020-Intell core i5 4 th gen. 4590 ➤ Processor 3.7GHz and 6MB Cache ➤ 4GB DDR3 1600MHz ➤ RAM (1x4GB), 500GB ➤ SATA HDD 7200RPM ➤ 2GB Graphics- ATI/AMD RADEON card ➤ DELL 18.5" LED WTFT Monitor.	60	27,83,655.00
22.	<u>SERVER:</u> ➤ Processor: IBM XSeries-3500, 3 GHz ➤ RAM- 7GB ➤ Hard Disk-280GB	01	3,40,000.00

Name of the Lab: **ENGINEERING MECHANICS LAB** Total Cost: Rs. 2,13,891/-

S. No	Brief Description of the Equipment	Qty.	Procurement Cost (Rs)
1.	Polygon Law Of Forces Apparatus	01	17,500.00
2.	Verification Of Lami's Theorem	01	18,500.00
3.	Simply Supported Beam Apparatus	01	15,500.00
4.	Inclined Plane Set-Up	01	15,500.00
5.	Bell Crank Lever Apparatus	01	10,500.00
6.	Moment Of Inertia Of Flywheel Set-Up	01	18,500.00

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7.	Simple Screw Jack Set-Up	01	15,500.00
8.	Simple Wheel And Axial Set-Up	01	8,500.00
9.	Simple Wheel & Differential Axle Set-Up	01	12,500.00
10.	Worm & Worm Wheel Set-Up	01	18,000.00

Name of the Lab: **FLUID MECHANICS & HYDRAULIC MACHINERY LABORATORY**

Total Cost: Rs. 18,73,071/-

S. No	Brief Description of the Equipment	Qty.	Procurement Cost (Rs)
1.	Reynold's Apparatus	1	20,000.00
2.	Bernoulli's Theorem Apparatus	1	52,000.00
3.	Mouthpiece/Orifice	1	52,500.00
4.	Impact Of Jet On Vanes	1	49,500.00
5.	Triangular/Rectangular Notch	1	52,500.00
6.	Venturi Meter & Orifice Meter	1	34,000.00
7.	Friction Factor Apparatus (Minor Losses)	1	30,000.00
8.	Friction Factor Apparatus (Major Losses)	1	49,500.00
9.	Single Stage Centrifugal Pump (Constant Speed)	1	27,000.00
10.	Reciprocating Pump (Variable Speed)	1	30,000.00
11.	Single Stage Centrifugal Pump (Variable Speed)	1	32,000.00
12.	Gear Pump Test Rig	1	28,000.00
13.	Pelton Wheel	1	1,25,000.00
14.	Analog Tachometer	1	6,032.00
15.	Kaplan Turbine	1	2,88,750.00
16.	Francis Turbine	1	2,08,580.00
17.	Hydraulic Jump	1	1,24,950.00
18.	Hydraulic Tilting Flume	1	4,89,982.00
19.	Multistage Centrifugal Pump	1	46,777.00
20.	Turbine Flow Meter	1	74,025.00
21.	Micro-Manometer	1	51,975.00

Name of the Lab: **INTERNAL COMBUSTION ENGINES LAB** Total Cost: Rs. 41,99,625/-

S. No	Brief Description of the Equipment	Qty.	Procurement Cost (Rs)
1.	Computerized Four Stroke Single Cylinder Kirloskar Vcr Multi Fuel Research Engine Test Rig With Eddycurrent Dynamometer.	1	9,56,250.00
2.	Computerized Four Stroke Multi Cylinder Maruthi Petrol Engine Test Rig With Hydraulic Dynamometer.	1	6,86,250.00
3.	Four Stroke Single Cylinder Petrol Engine Test Rig With Electrical Resistance Bank Dynamometer.	1	1,53,000.00

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4.	Four Stroke Six Cylinder Tata Diesel Engine Test Rig With Mechanical Brake Dynamometer.	1	75,000.00
5.	Computerized Four Stroke Single Cylinder Kirloskar Diesel Engine Test Rig With Eddy Current Dynamometer.	1	4,85,490.00
6.	Smoke Meter(Avl) With Di-Speed	1	1,64,298.00
7.	Five Gas Analyzer (Avl)	1	2,48,357.00
8.	Four Stroke Single Cylinder Kirloskar Diesel Engine Test Rig With Mechanical Brake Dynamometer	1	50,000.00
9.	Four Stroke Four Cylinder Ambassador Petrol Engine Test Rig With Hydraulic Dynamometer (With Gas Conversion Kit)	1	1,38,560.00
10.	Computerized Multifuel Research Engine Test Setup	1	9,56,250.00
11.	Computerized Diesel Engine Test Setup	1	6,86,250.00
12.	Piezo Sensor, Load Sensors, Encoders	1	2,17,550.00

Name of the Lab: **Manufacturing Technology Lab**

Total Cost: Rs. 3, 29,120/-

S. No	Brief Description of the Equipment	Qty.	Procurement Cost (Rs)
1.	Injection Molding Machine [½ Oz]	1	9,000.00
2.	50gm Bottle Die For Injection Molding Machine	1	10,300.00
3.	Bottle Cap Die For Injection Molding Machine	1	4,100.00
4.	1oz Blow Molding Machine	1	10,150.00
5.	½ Hp Air Compressor	1	7,250.00
6.	3/8 To 1 Inch Hydraulic Pipe Bending Machine	1	8,500.00
7.	8kva Spot Welding Machine	1	22,700.00
8.	Hydraulic Press (6.5 Ton)	1	75,720.00
9.	TIG Welding set, AC-DC	1	37,900.00
10.	Sand Siever	1	38,400.00
11.	Sand Rammer	1	20,900.00
12.	Permeability Tester	1	31,200.00
13.	Universal Sand Strength Testing Machine	1	53,000.00

Name of the Lab: **Material Science Lab**

Total Cost: Rs. 3,28,675/-

S. No	Brief Description of the Equipment	Qty.	Procurement Cost (Rs)
1.	Specimen Cut-off Machine	01	24,000.00
2.	Heat Treatment Furnace	01	13,000.00
3.	Polishing stand with bench	02	7200.00
4.	Microscope (Model: Metz-57)	02	12,500.00
5.	Metzer Projection Microscope	01	28,000.00
6.	Inverted Trinocular Metallurgical Microscope [Low cost series]	01	18,000.00

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7.	Metzer-Binocular Metallurgical Microscope	05	96,500.00
8.	Double Disk Polishing Machine	01	16,600.00
9.	Hot Air-Drier	01	650.00
10.	Case Carburizing Box	01	3500.00
11.	Linisher	01	9,000.00
12.	Specimen mounting Press	01	10,500.00
13.	Hydraulic Mounting press [3T]	01	15,000.00
14.	Jomny End quench Apparatus	01	24,000.00
15.	Magnetic Error detector	01	28,625.00
16.	Standard Specimen		18,900.00
17.	Specimen leveler	01	1,200.00
18.	Voltage Regulator	02	1,500.00

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Name of the Lab: **Dynamics Lab**
5,01,545/-

Total Cost: Rs.

S. No	Brief Description of the Equipment	Qty.	Procurement Cost (Rs)
1.	Damped Spring –Mass Vibrating System	01	28,111.00
2.	Steady State Amplitude Of A Forced Vibrating System	01	26,863.00
3.	Static Balancing Using Steel Balls	01	15,470.00
4.	Static & Dynamic Balancing Of Rotary Masses	02	36,948.00
5.	Field Balancing Of The Thin Rotor Using Vibration Pick-Up	01	38,719.00
6.	Motorized Gyroscope	02	53,884.00
7.	Whirling of Shaft Apparatus	01	28,500.00
8.	CAM Analysis Apparatus	01	27,000.00
9.	Universal Governor Apparatus	01	28,750.00
10.	Universal VIB-LAB	01	70,500.00
11.	Epi-Cyclic Gear Train Holding Torque Apparatus	01	65,000.00
12.	Turn Table Apparatus	01	35,500.00
13.	Kinematics of 4-Bar Mechanism i. Slider Crank Mechanism ii. Oscillating Cylinder Mechanism iii. Whitworth Mechanism iv. 4-Bar link Mechanism	1set	21,750.00
14.	Kinematics of Gear Trains i. Single Stage Spur gear with intermediate Gear ii. Differential Gear	1set	11,000.00
15.	Kinematics of Joints i. Knuckle joint ii. Gib & Cotter joint iii. Sleeve & Cotter Joint iv. Socket & spigot joint	1set	13,550.00

Name of the Lab: **Heat Transfer Lab**

Total Cost: Rs. 4,12,525/-

S. No	Brief Description of the Equipment	Qty.	Procurement Cost (Rs)
1.	Stefen Boltzman Constant Apparatus	01	16,350.00
2.	Heat Transfer Through Composite Wall Apparatus	01	29,600.00
3.	Surface Heat Transfer Coefficient By Natural Convection Apparatus	01	18,000.00
4.	Thermal Conductivity Of Insulating Powder Apparatus	01	20,900.00
5.	Heat Transfer Through Heat Exchanger Apparatus	01	18,800.00
6.	Emissivity Of The Given Test Plate Apparatus	01	19,700.00
7.	Het Transfer Through Pin Fin Apparatus Pparatus	01	22,700.00
8.	Critical Heat Flux Apparatus	01	16,125.00
9.	Drop Wise And Film Wise Condensation Apparatus	01	29,250.00
10.	Heat Pipe Demonstration Apparatus	01	19,800.00

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11.	Thermal Conductivity Of Metal Rod Apparatus	01	18,150.00
12.	Heat Transfer Through Lagged Pipe Apparatus	01	18,150.00

Name of the Lab: **Instrumentation Lab**

Total Cost: Rs. 2,30,289/-

S. No	Brief Description of the Equipment	Qty.	Procurement Cost (Rs)
1.	Pressure Measurement Trainer	4	47,551.50
2.	Trainer Module For Lvdt	3	18,000.00
3.	Load(Force) Measuremnt Trainer	1	6,500.00
4.	Strain Measurement Trainer Module	3	18,900.00
5.	Measurement of Temperature Setup (Thermocouple, Rtd, Thermistor)	1	4,800.00
6.	Measurement Of Temperature (Rtd)	2	13,000.00
7.	Sensors Of Rtd, Thermocouple, Thermistor Each	3	1,500.00
8.	F-Uitm7-Speed Measurement Trainer Module To Measure Speed By Magnetic And Photoreflective	1	7,260.00
9.	F-Study And Calibration of MC Lead Gauge With Compressor	1	10,500.00
10.	F-Uitm11-Capacitance Trainer Module (Linear Displacement)	3	25,587.50
11.	F-Uitm13-Rotameter Trainer To Measure Flow	1	18,480.00
12.	F- Study Of Anemometer	1	19,250.00
13.	F-Vibration Analyser	1	29,837.50
14.	F-Uitm11a – Capacitance Trainer Module (Angular Displacement)	1	9,124.50

Name of the Lab: **METROLOGY & MACHINE TOOLS LAB**

Total Cost: Rs. 10,05,690/-

S. No	Brief Description of the Equipment	Qty.	Procurement Cost (Rs)
1.	Profile Projector	1	51,731.00
2.	Universal Gear Head Milling Machine	1	82,170.00
3.	Uni-Tech All Geared Lathe Machine	01	2,39,400.00
4.	Uni-Tech Lathe Machines	02	
5.	Jayshree Brand Lathe Machine	1	60,700.00
6.	Anil Brand Lathe Machine (Bed No's: 2778,2779)	2	1,56,491.00
7.	Anil Brand Lathe Machine (Bed Nos:2776,2777)	2	1,43,937.00
8.	Anil Brand Lathe Machine (Bed No: 2775)	1	83,457.00
9.	Anil Brand Lathe Machine (Bed No: 2780,)	1	62,804.00
10.	Smt.Brand Radial Drilling Machine	1	1,25,000.00


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Name of the Lab: **Thermal Engineering Lab**

Total Cost: Rs.4,56,172/-

S. No	Brief Description of the Equipment	Qty.	Procurement Cost (Rs)
1.	Two Stage Reciprocating Air Compressor Test Rig	1	55,000.00
2.	Air Conditioning Test Rig/Tutor	1	75,375.00
3.	Refrigeration Test Rig/Tutor	1	68,875.00
4.	Digital Bomb Calorimeter-Deluxe	1	80,022.00
5.	Rotary Air Compressor Test Rig	1	1,30,000.00
6.	Red Wood Viscometer	1	16,800.00
7.	Say Bolt Viscometer	1	15,500.00
8.	Able Flash & Fire Point Apparatus	1	14,600.00

Name of the Lab: **Engineering Workshop**

Total Cost: Rs. 8,96,176.00/-

CARPENTRY TRADE			
S. No	Name Of The Job	No. Of Setups	No. Of Students Per Setup
1	Corner Lap Joint	16	01
2	T-Lap Joint	16	01
3	Lap Dovetail Joint	16	01
4	Mortise & Tennon Joint	16	01
5	Open Bridle Joint	16	01
FITTING TRADE			
S. No	Name Of The Job	No. Of Setups	No. Of Students Per Setup
1	Square Fit	16	01
2	V -Fit	16	01
3	Dovetail Fit	16	01
4	Stepped Fit	16	01
5	Half Round Fit	16	01
TIN SMITHY TRADE			
S. No	Name Of The Job	No. Of Setups	No. Of Students Per Setup
1	Cylindrical Pipe	10	01
2	Rectangular Tray	10	01
3	Funnel	10	01
4	Dust Pan	10	01
5	Inclined Cylindrical Pipe	10	01
HOUSE WIRING TRADE			
S. No	Name Of The Job	No. Of Setups	No. Of Students Per Setup
1	One Lamp Controlled By Oneway Switch	12	01
2	Series Connection	12	01
3	Parallel Connection	12	01
4	Stair Case Connection	12	01
5	Tube Light Connection	12	01
WELDING TRADE			


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S. No	Name Of The Job	No. Of Setups	No. Of Students Per Setup
1	Arc Welding Layer Practice	02	01
2	Single V-Butt Joint	02	01
3	Lap Joint	02	01
4	T-Joint	02	01
5	Corner Joint	02	01
SOLDERING TRADE			
S. No	Name Of The Job	No. Of Setups	No. Of Students Per Setup
1	Soldering & Desoldering Practice	05	01
2	Series Circuit	05	01
3	Parallel Circuit	05	01
4	Series & Parallel	05	01
Total			8,96,176.00


BOSCH POWER TOOLS		
S. No	Name Of Power Tool	Quantity
1.	High Speed Straight Grinder	1
2.	High Torque Drill Machine [13mm]	1
3.	Mini Angle Grinder	5
4.	Nibbler - 500 Watts	1
5.	Jig Saw, Gst - 135 Bce	2
6.	Planner Professional - 710 Watts	5
7.	High Finish Router - 900 Watts	1
8.	Eccentric Sander - 150 Mm - 340 Watts	1
9.	High Speed Grinder/Cutter	1
10.	Circular Saw, Gks - 190	4
11.	Cutt Of Saw, Gco - 2000	3
12.	Bosch Hand Man Kits	4
13.	Meter Saw, Gcmi - Om	1
14.	Saws, Gsa - 110 - Ce	3
15.	Straight Grinder, Ggs -227 Lc	2
16.	Shear Cutting Machine	3
17.	Detectors, Dmf - 10 Zoom - 5080	3
18.	Impact Drill, Gsb - 21-2 Re	2
19.	Impact Wrenches, Gds - 18 E	1


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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING


EQUIPMENT

Total Lab Equipment & Software Cost: Rs. 276.35 Lakhs

Name of the Lab: Microwave and Optical Communications Lab

Total Cost: Rs. 15.5 lakhs

S.No	Name of the Equipment	Quantity
1	Cathode Ray Oscilloscopes	10
2	Fiber Optic training lab consisting of 4 kits.	1 set
3	Optical Fiber kit	4
4	Optical Fiber kit	4
5	Microwave Bench	2 sets
6	Microwave Bench	3 sets
7	Microwave Bench	5 sets
8	Distortion Meter	1
9	Digital Kryston Power Supply	2
10	Digital Kryston Power Supply	2
11	AC withstand Vol/insulation Tester	1
12	Audio Generator	1
13	Programmable Power Supply	1
14	Function Generator	1
15	Programmable electronic load	1
16	Synthesized FG	1
17	DC Power Supply	1
18	Satellite Communication training system	1
19	Antenna Training System	1


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Name of the Lab: Microprocessors Lab

Total Cost: Rs. 12.0 lakhs

S.No	Name of the Equipment	Quantity
1	8031/8051 Microcontroller Trainers	40
2	89C51 Microcontroller Trainers	5
3	8085 Microprocessor Trainers	8 + 10
4	8086/88 Microprocessor Trainers	40
5	PIC 16F 877 Embedded System and PIC Universal Programmer with ICD	1
6	Interfacing Boards	104
7	Digital IC Tester	1
8	Cathode Ray Oscilloscopes	5

Name of the Lab: Analog & Digital Communications Lab

Total Cost: Rs. 19.3 Lakhs

S. No	Brief Description of the Equipment	Qty.
1.	Cathode Ray Oscilloscopes	15
2.	Digital Storage Oscilloscope	2
3.	Arbitrary Function generator	2
4.	Pulse Generator	9
5.	Function Generators	11
6.	Regulated Power Supplies	20
7.	Decade resistance box	12
8.	Decade capacitance box	12
9.	Decade inductance box	12
10.	Multimeters	10
11.	I.C. Tester (Linear & Digital)	2
12.	Trainer Kits	34

Name of the Lab: Analog IC Applications Lab

Total Cost: Rs. 11.0 Lakhs

S. No	Brief Description of the Equipment	Qty.
1.	Cathode Ray Oscilloscopes	16
2.	Digital Storage Oscilloscope	2
3.	Function Generators	18
4.	Regulated Power Supplies	17
5.	Decade resistance box	10
6.	Decade capacitance box	7
7.	Decade inductance box	5
8.	Multimeters	10
9.	I.C. tester (Linear & Digital)	1 + 1
10.	Trainer Kits	92

Name of the Lab: EDC and ECA Lab

Total Cost: Rs. 12.0 Lakhs

S. No	Brief Description of the Equipment	Qty.
1.	Cathode Ray Oscilloscopes	20
2.	Digital Storage Oscilloscope	1
3.	Function Generators	20
4.	Regulated Power Supplies	37
5.	Decade resistance box	7
6.	Decade capacitance box	10

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7.	Decade inductance box	7
8.	Multimeters	10
9.	I.C. tester	1
10.	Trainer Kits	66
11.	AC/DC Ammeters	13+103
12.	AC/DC Voltmeters	55+60

Name of the Lab: Electronic Devices and Circuits Lab

Total Cost: Rs. 11.0 Lakhs

S. No	Brief Description of the Equipment	Qty.
1.	Cathode Ray Oscilloscopes	20
2.	Digital Storage Oscilloscope	1
3.	Function Generators	20
4.	Regulated Power Supplies	37
5.	Decade resistance box	7
6.	Decade capacitance box	10
7.	Decade inductance box	7
8.	Multimeters	10
9.	I.C. tester	1
10.	Trainer Kits	66
11.	AC/DC Ammeters	13+103
12.	AC/DC Voltmeters	55+60

Name of the Lab: Digital Simulation Lab-I

Total Cost: Rs. 36.0 Lakhs

S. No	Brief Description of the Equipment	Qty.
1.	Operating System: Windows xp Professional(xp2), Windows 2000 and 2003 server, Redhat Linux 5.0 Enterprizes edition, Active -HDL 4.2SE,MS-OFFICE 2003-2007, Matlab7.0.4,Tasm, Pspice,Matlab R2006(7.2), Mecafee(antivirus)	45
2.	UPS, 11 KVA,8000W	1
3.	Air conditioners, Vertis	2
4.	Regulated Power Supplies	37
5.	Decade resistance box	7

Name of the Lab: Digital Simulation Lab-II


Total Cost: Rs. 20.0 Lakhs

NO OF SYSTEMS: 36

1. OPARATING SYSTEMS : WINDOWS XP – 2003 SERVER
2. IBM X 3500 SERVER

SOFTWARES:

3. MS - Office 2003 -2007
4. Microwind 3.1
5. TASM
6. 6713-VSK
7. 8031 Vi - Debugger
8. DSK CCS TMS 320C6713
9. Active VHDL 4.2 (Student Edition)
10. Xilinx – Webpack 9.1Ver



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TRAINER KITS:

1	Ni2 Design's HDL Trainer Kits (CPLD & FPGA)	5
2	VSK C6713 Trainer Kits	10
3	DSP TMS 320C6713 Kits	20
4	GSM Trainer Kit	1
5	GPS Trainer Kit	1
6	Finger Print Daughter card	1
7	5.2Meg Pixel Smart Camera System	1
8	Trident Hdl Trainer Kits (CPLD & FPGA)	6
9	Function Generators	6
10	Cathode Ray Oscilloscopes	6
11	UPS	1
12	Air Conditioners	2

Name of the Lab: Digital Simulation Lab-IV

Total Cost: Rs. 30.0 Lakhs

SOFTWARE AVAILABLE	No.of systems
Operating System : WINDOWS XP2 1) MS-Office 2003-2007, 2) MULTISIM 9.0, 3) ULTIBOARD 9.0, 4) ACTIVEHDL 7.2, 5) VERILOG 7.2, 6) Synthesis & Simplify Pro 8.6 (3 users), 7) XILINK WEBPACK 5.2/6.3/9.1, 8) Kiel software	25 Nos

Trainer Kits Nos

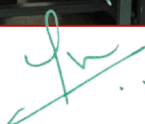
- 8051 ADVANCED DEVELOPMENT BOARDS : 10
- Ni2 DESIGN'S HDL TRAINER KITS (CPLD & FPGA) : 05




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NANDYAL-518 501, Nandyal (Dt), A.P.




Dr. T. JAYACHANDRA PRASAD
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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

EQUIPMENT

Total Lab Equipment & Software Cost: Rs. 268.90 Lakhs

Name of the Lab: Server

Total Cost: Rs 35,35,799/-

S. No	Brief Description of the Equipment	Qty.	Procurement Cost (Rs)
1.	HP Servers Specification Intel Xeon Duel Core 3.0GHz with HT EM 64Technology Total 2 Processors, 1333 FSB, 2*2 MB L2 Cache,Intel 5000 Chipset, 8 GB PC2-5300 667 MHz Ram Expandable 48 GB With 12 DIMM Slots, 4 * 146 GB SAS 10k rpm Hotswap HDD with, Raid 0,1 planner,6 USB ,1 Serial , 2 Ethernet, 1 RJ 45 Combo Drive , 16 MB SDR Graph Memory, 10/100/1000 MBPs Integrated Wake-on LAN supported NIC Form Factor Rack Server, Redundant Power Supply, Redundant Hot Swappable, Baseboard Systems Management	01	2,10,000.00
2.	DELL Servers Specification Intel Xeon Duel Core 3.0GHz with HT EM 64 Technology, Total 2 Processors, 1333 FSB, 2*2 MB L2 Cache, Intel 5000 Chipset 8 GB PC2-5300 667 MHz Ram Expandable 48 GB, With 12 DIMM Slots 4 * 146 GB SAS 10k rpm Hotswap HDD with integrated, Raid 0,1 planner,6 USB,1 Serial , 2 Ethernet, 1 RJ 45, Combo Drive , 16 MB SDR Graph Memory, 10/100/1000 MBPs Integrated Wake-on LAN supported NIC Form Factor Rack Server, Redundant Power Supply,Redundant Hot Swappable, Baseboard Systems Management	05	15,25,000.00
3.	Sun Fire X 4200 M2 Server 2 X 64 Bit Dual Core Processors Model 2220 SE 8 GB RAM Four Slots for CPU Socket , DDR2/ 667 ECC Registered 4 X 73 GB 10000 RPM SAS HDD, Four Channel SAS Interface DVD Writer 10/100/1000 T-Ethernet Ports , 64 Bit 133 MHz PCI- X slot Hardware Monitoring , OS Monitoring Slide Rail Kit with Cable Management SUN Key Board / Mouse , Certify With Microsoft ,Solaris , Linux	2	10,50,000.00
4.	IBM AIX Server IBM OS software – A13 -980 OPAIX V 5.3/8520 A13-981 SR Server p5510 A13-979 0890 Days SWMA, NewD5/E5-A13-982	1	4,10,800.00
5.	IBM Server IBM X3500 Server-797792 ^a Intel Xeon 3.0 GHz /13333 FSB 4 MB Cache /8 GB RAM / DVD ROM 148GB * 3 15k RPM HDD 39y8487 Redundant Power Supply IBM USB Key Board , IBM Optical Mouse	1	3,39,999.00
	Total		35,35,799.00

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Name of the Lab: CSE LAB

Total Cost: Rs 36,76,855/-

S. No	Brief Description of the Equipment	Qty.	Procurement Cost (Rs)
1.	Intel Core 2 Duo(65), Intel 945GV Chipset Board, 1 GB DDR2 Ram, 80 GB SATA HDD Dell Combo Drive, Dell Key Board , Mouse 15" LCD Monitor, 10/100/1000 Gigabyte T Ethernet	58	16,52,999.00
2.	Dell Optiplex 740 , AMD Athlon Processor(40) Intel 945GV Chipset Board, 1 GB DDR2 Ram 80 GB SATA HDD, Dell Combo Drive Dell Key Board , Mouse, 15" LCD Monitor 10/100/1000 Gigabyte T Ethernet	33	11,05,499.00
3.	Acer Variton Desktops, Intel DC 2.8 GHz, 2 GB DDR3 Ram, 500 GB HDD, 15" LCD Monitor, Acer Keyboard & Mouse	35	6,51,357.00
4.	Dell Desktops, Intel DC 2.99 Ghz,, 2 GB DDR3, 500 gb HDD, Dell Keyboard , Mouse, 17" LCD Monitor	10	2,67,000.00
TOTAL			36,76,855.00

Name of the Lab: CSE LAB

Total Cost: Rs 51,97,430/-

S. No	Brief Description of the Equipment	Qty.	Procurement Cost (Rs)
1.	Dell Optiplex 3046 Systems Intel Core i5 6 th Generation 6500 3.2 GHz, 4GB DDR4 Ram, 1TB HDD, 19.5" LED Monitor, DELL Key Board/ MOUSE	60	25,45,200.00
2.	HP dx2280 MT Model Systems Intel Core 2 Due 1.86 GHz , 2 MB L2 Cache Memory , Intel 965 GZ Desktop Board 1 GB DDR2 RAM , 80 GB SATA HDD , 1.44 MB FDD, Combo Drive , 10/100/1000 Gigabyte NIC, HP Key Board / HP Mouse HP 17" CRT Monitors	11	2,79,949.00
3.	HP dx7380 Systems Intel Core 2 Due 1.86 GHz , 2*2 MB L2 Cache Intel 965 Gz Chipset Board , 1 GB DDR2 Ram, 80 GB SATA HDD , Combo Drive , 10/100/1000 Gigabyte NIC , HP Key Board / HP Mouse 15" TFT Monitor	36	11,70,000.00
4.	HP dx2255 MT Model Systems Intel Core 2 Due 1.86 GHz 2 MB L2 Cache Memory , Intel 965 GZ Desktop Board 1 GB DDR2 RAM , 80 GB SATA HDD , 1.44 MB FDD, Combo Drive ,10/100/1000 Gigabyte NIC HP Key Board / HP Mouse, HP 17" CRT Monitors	19	5,22,493.00
5.	IBM Lenovo Think Centre Intel Pentium D 3.4 GHz Duel Core 2 MB L2 Cache Memory , Intel 945 GZ Desktop Board	21	5,94,288.00

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	512 MB DDR2 , 80 GB SATA HDD , 1.44 MB FDD , Combo Drive , 10/100/1000 Gigabyte NIC IBM Key Board / IBM Mouse , IBM 17" CRT Monitors		
6.	HP D290 Model Systems Intel Pentium-IV 3.0 GHz with HT 2 MB L2 Cache Memory , Intel 915 GZ Desktop Board 512 MB DDR, 80 GB SATA HDD , 1.44 MB FDD 52 X CD Rom + (20 CD Writers) , 10/100/1000 Gigabyte NIC , HP Key Board / HP Mouse HP 17" CRT Monitors	3	85,500.00
TOTAL			51,97,430.00

Name of the Lab: MCA LAB

Total Cost: Rs 17, 46,399/-

S. No	Brief Description of the Equipment	Qty.	Procurement Cost (Rs)
1.	IBM Lenovo Think Centre Intel Pentium D 3.4 GHz Dual Core 2 MB L2 Cache Memory , Intel 945 GZ Desktop Board 512 MB DDR2 , 80 GB SATA HDD , 1.44 MB FDD , Combo Drive , 10/100/1000 Gigabyte NIC IBM Key Board / IBM Mouse , IBM 17" CRT Monitors	13	3,67,900.00
2.	HP D290 Model Systems Intel Pentium-IV 3.0 GHz with HT 2 MB L2 Cache Memory , Intel 915 GZ Desktop Board 512 MB DDR, 80 GB SATA HDD , 1.44 MB FDD 52 X CD Rom + (20 CD Writers) , 10/100/1000 Gigabyte NIC , HP Key Board / HP Mouse HP 17" CRT Monitors	38	10,75,400.00
3.	IBM Lenovo Think Centre Intel Pentium IV 3.0 GHz 2 MB L2 Cache Memory , Intel 945 GZ Desktop Board 512 MB DDR2 , 80 GB SATA HDD , 1.44 MB FDD , Combo Drive , 10/100/1000 Gigabyte NIC IBM Key Board / IBM Mouse , IBM 17" CRT Monitors	03	91,500.00
4.	IBM Lenovo Think Centre Intel Pentium D 2.8 GHz Dual Core 2 MB L2 Cache Memory , Intel 945 GZ Desktop Board 512 MB DDR2 , 80 GB SATA HDD , 1.44 MB FDD , Combo Drive , 10/100/1000 Gigabyte NIC IBM Key Board / IBM Mouse , IBM 17" CRT Monitors	08	2,11,599.00
TOTAL			17,46,399.00

Name of the Lab: M.Tech LAB

Total Cost: Rs 17, 37,310/-

S. No	Brief Description of the Equipment	Qty.	Procurement Cost (Rs)
1.	Sun Work Stations AMD Opetron 1210 D.C 1.8 GHz 1 MB L2 Cache , 1Ghz Hyper Transport !GB PC3200 ECC-667 , NVIDIA Chipset , 160 GB SATA HDD (7200 rpm) Combo Drive , 10/100/1000 Gigabyte T Ethernet SUN 17" LCD Monitors , With Free SUN OS loaded	22	10,94,000.00
2.	HP dx2280 MT Model Systems	14	3,56,299.00

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	Intel Core 2 Due 1.86 GHz , 2 MB L2 Cache Memory , Intel 965 GZ Desktop Board 1 GB DDR2 RAM , 80 GB SATA HDD , 1.44 MB FDD, Combo Drive , 10/100/1000 Gigabyte NIC, HP Key Board / HP Mouse HP 17" CRT Monitors		
3.	HP dx2255 MT Model Systems Intel Core 2 Due 1.86 GHz 2 MB L2 Cache Memory , Intel 965 GZ Desktop Board 1 GB DDR2 RAM , 80 GB SATA HDD , 1.44 MB FDD, Combo Drive ,10/100/1000 Gigabyte NIC HP Key Board / HP Mouse, HP 17" CRT Monitors	1	27,499.00
4.	IBM Lenovo Think Centre Intel Pentium D 3.4 GHz Duel Core 2 MB L2 Cache Memory , Intel 945 GZ Desktop Board 512 MB DDR2 , 80 GB SATA HDD , 1.44 MB FDD , Combo Drive , 10/100/1000 Gigabyte NIC IBM Key Board / IBM Mouse , IBM 17" CRT Monitors	04	1,13,199.00
5.	IBM Lenovo Think Centre Intel Pentium D 2.8 GHz Duel Core 2 MB L2 Cache Memory , Intel 945 GZ Desktop Board 512 MB DDR2 , 80 GB SATA HDD , 1.44 MB FDD , Combo Drive , 10/100/1000 Gigabyte NIC IBM Key Board / IBM Mouse , IBM 17" CRT Monitors	01	26,449.00
6.	HP D290 Model Systems Intel Pentium-IV 3.0 GHz with HT 2 MB L2 Cache Memory , Intel 915 GZ Desktop Board 512 MB DDR, 80 GB SATA HDD , 1.44 MB FDD 52 X CD Rom + (20 CD Writers) , 10/100/1000 Gigabyte NIC , HP Key Board / HP Mouse HP 17" CRT Monitors	02	56,600.00
7.	APPLE MAC MINI MGEM2HN/A Apple key board, Dell LED Monitor(2)VGA Adapter, I Connect HDMA Adapter , Apple Wired Mouses(2)		63,263.90
TOTAL			17,37,310/-

Name of the Lab: R & D LAB

Total Cost: Rs 10,42,317/-

S. No	Brief Description of the Equipment	Qty.	Procurement Cost (Rs)
1.	Acer Travelmate 4150 Intel Pentium M 780GHZ 512 MB DDR2 , 60 GB HDD and Other	1	55,000
2.	IBM Think Pad R60 Intel Duel Core L2400 1.66 Ghz 512 MB DDR2 , 60 GB HDD Combo Drive, wireless , Bluetooth	2	1,15,000
3.	Dell Inspiron 4150 Lop tops Intel Duel Core L2400 1.66 Ghz 512 MB DDR2 , 60 GB HDD Combo Drive, wireless , Bluetooth	8	3,00,000

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4.	Panasonic Toughbook CF-31ATAAXPM WinXP (Win7 COA), Intel Core i5 520M 2.40GHz, vPro, 13.1" XGA Touch, 160GB HDD , 2GB DDR2 RAM , Intel WiFi a/b/g/n, Bluetooth, Single Pass (WWAN)	1	2,58,000
5.	Mobile HTC p510 E Flyer Packet PC Duel Core 1.5 GHz CPU 1 GB RAM 32 GB Internal Memory Android OS 2.3.3 GPS with A-GPS Support	1	26,500
6.	HP Pavilion TM2 2102 Touch Smart Intel Core I3 1.33 Ghz 320 GB HDD 3 GB DDR-III Ram 12" Diagonal High Definition HP Bright View Touch Screen	2	78,000
7.	Acer Icania TAW w500 Tablet PC	1	32,500
8.	Dell Optiplex 3030 AIO Desktops Core I 5 4590 , 4GB DDR3 500 GB HDD	2	1,21,800
9.	Books		55,517
TOTAL			10,42,317/-

Name of the Lab: software

Total Cost: Rs 79,81,537/-

S. No	Brief Description of the Equipment	Qty.	Procurement Cost (Rs)
1.	Windows NT Server V 4.0 With 45 Users	05	30,000
2.	Red Hat Linux 9.0 Prof Fpp.	01	9,000
3.	Fedora Core - 7		
4.	Win 98 SE - 10 Users	10	36,500
5.	Microsoft Windows 2000 Advanced Server	40	16,400
6.	Fedora Core 7.0		
7.	Sun Solaris		
8.	Ibm Power Academy Program , Aix Os		
	Application Software:		
9.	Ms-Visual Studio 6.0 (Academic Version) - 5 Users	05	30,000
10.	Borland Jbuilder 4.0 Prof.	01	1,40,000
11.	Oracle 8.I For Windows Nt (Academic Version) With 5Users.	02	48,000
12.	Ms-Office 2000 (Academic Version).	01	12,000
13.	Borland Turboc++ Suit.	01	14,000
14.	Rational Suit Enterprise	01	3,00,000
15.	Nag C Library On Windows	01	73,500
16.	Mathematica Professional Version 5.2	05	1,50,000
17.	Add On Products For Mathematica	01	1,00,000
18.	IDL (Interactive Data Language)	01	45,000
19.	Mcafee Virus Scan Enterprise Version 8.I	250	2,65,000
20.	Symantec Anti Virus	250	2,93,750
21.	Informatica Power Center	-	8,35,000

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22.	Adobe Cs2 Premium	80	9,48,480
23.	Oracle 10g Standard One Edition	--	4,05,000
24.	Simsript	10	3,50,000
25.	Adobe Flash Professional	--	69,809
26.	Oracle 9i Training KIT	100	2,47,207
27.	Microsoft Campus Agreement for 2011-2012		1,25,000
28.	GEMS Learning Resources Professional Licenses		4,49,440
29.	TekEdge Software		2,50,000
30.	Microsoft Campus Agreement for 2012-2013		1,57,163
31.	IBM Rational Seed for Quality & Training		3,04,205
32.	Microsoft Campus Agreement for CSE Department 2013-2016		1,47,472
33.	Microsoft Campus Agreement for 2014-2015		2,23,214
34.	Computer Software License for (75 Nos) Microsoft		2,93,049
35.	4. 100 Nos (KW9-00311) Microsoft win home 10 Single Academic OLP 1 Licenses 2015-2017		8,53,598
36.	100 Nos(Kw9-00311) Microsoft win home 10 SNGL OLP		8,51,650
	TOTAL		79,81,537/-



Server Room


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DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

EQUIPMENT

S.No	Name of the Equipment	Quantity
1	STRAIN GAUGE (Modelno:UITM_01)	2
2	LVDT	2
3	RTD &RTD (PT-100)Model:UITM-032	2
4	CAPACITIVE TRANSDUCER	2
5	VIBRATION DEMO SYSTEM	1
6	BOURDEN PRESSURE GAUGE	2
7	AIR COMPRESSOR	1
8	LEVEL PROCESS ANALYSER	1
9	FLOW PROCESS ANALYSER	1
10	DC MOTOR BASED POSTION CONTROL SYS	1
11	PMDC MOTOR	1
12	TEMPARATURE PROCESS ANLYSER	1
13	CONTROL VALVE TRAINER	1
14	THERMISTER	1
15	PH METER	1
16	I TO P &P TO I CONVERTER	1
17	CAPACITIVE TRANSDUCER	1
18	HUMADITY MEASUR MENT	1
19	ANALOG PID	1
20	BLOOD PRESUR METER	1
21	PLC MONITERING SYSTEM	1
22	STROBOSCOPE METER	1
23	REONO 168 SOFT WERE SL-159	1
24	SPECTROPHOTOMETER	1
25	FLAME PHOTOMETER	1
26	INSTRUMENTASTION AMPLIFIRE	1
27	DATAAQUISTION TRAINER	1
28	LOWCOST ADC DAC & DIO BOARD	1
29	SOFTWARE CARDS	1
30	DATAAQUISTION & CONTROL	1
31	RS 232 CABLE	1


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S.No	Name of the Equipment	Quantity
32	MULTIMETERS CIE122	2
33	CIE123	3
34	MECO MODEL 9A	3
35	MODEL 450- TRMS	1
36	DC GALVONOMETRS	8
37	DC GALVONOMETRS OXFORD	2
38	FUNCTION GENARATORS (1MHZ)	4
39	3MHZ	2
40	1MHZ	4
41	DC POWER SUPPLY	6
42	DC POWER SUPPLY	6
43	DECADE RESITANCE BOX	3
44	DECADE RESITANCE BOX	20
45	DECADE CAPACITANCE BOX	3
46	DECADE CAPACITANCE BOX	10
47	DECADE INDUCTON BOX	3
48	DECADE INDUCTON BOX	10
49	OSCILLOSCOPES (30MHZ)	5
50	OSCILLOSCOPES (30MHZ)	1
51	OSCILLOSCOPES (20MHZ)	4
52	POWER SUPPLY	1
53	LCR-Q SORTER	1
54	GM COUNTING SYSTEM	1
55	VOLTE METRS &AMMETERS	99
56	COMPUTERS	3
57	COMPUTERS	6
58	PRINTERS640C	1
59	PRINTERS840C	2
60	UPS	9
61	STABALIZERS 5KVA	1
62	STABALIZERS 10KVA	1
63	CONSUMOBILES (ANALOG IC S)	
64	(DIGITAL IC S) TRANSISTORS ,RESISTROS	
65	DLP	1


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S.No	Name of the Equipment	Quantity
66	MULTI FUNCTION CALIBRATOR MODEL:CA71	1
67	AC ADAPTER	1
68	ANALOG OSCILLOSCOPE MODEL :AL210	3
69	ANALOG OSCILLOSCOPE MODEL :AL300	6
70	FUNCTION GENERATOR (FG39)	8
71	NI ELVIS &DAC CARDS SOFTWARE	1
72	DIGITAL MULTIMETERS	10
73	MULTISIM - 8 SOFTWARE (25USERS)	25
74	ULTIBOARD V9 (5USERS)	
75	HAMEG TRIPLE POWER SUPPLY	8
76	HAMEG PROGRAMMABLE POWER SUPPLY	1
77	DUAL DISPLAY TRACKING POWER SUPPLY	3
78	DC MULTI OUT PUT POWER SUPPLY	8
79	SOLDERING &DESOLDERING	1
80	6.5DIGITAL MULTIMETER	1
81	SARTORIUS ANALYTICAL BALANCE	1
82	DIGITAL MULTIMETERS HAND HELD CIE-122	8
83	PH ANALYSER	1
84	DIGITAL IC TESTER	1
85	ANALOG IC TESTER	1
86	ORIBITE FUNCTION GENARATOR(DSO)(1NOFREE OF COST)	2
87	HP BUSINESS INK JET PRINTER 1200 COLOUR PRINTER	
88	HP LASER JET PRINTER 3030	1
89	DOT MATRIX PRINTER	
90	COMPUTERS	30
91	MICRO PROCESSOR KITS 8051	4
92	LAP TAPS	5
93	AUTOMATIC BOTTLE FILLING SYSTEM	1
94	PNEUMATIC PI CONTROLLER	1
95	CONTROLLER TUNING	1
96	MICROCONTROLLER/ MICROPROCESSOR INTER FACING BOARDS	
97	DATA AQUISITION CARDS (VAD-104)	3
98	RTD TEMPERATURE TRAINER MODEL:AM-9 (SERIAL NO.0306113)	1
99	VARIABLE AREA CAPACITIVE TRAINER	1

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S.No	Name of the Equipment	Quantity
100	STUDY OF THERMISTER CHARACTERSTICS	1
101	LINEARIZATION OF THERMISTER USING MICRO PROCESSOR	1
102	HUMIDITY SENSOR TRANSDUCER	1
103	BP AND HEART RATE DEMONSTRATER	1
104	PROGRAMME LOGIC CONTROLLER (PLC)	1
105	RATIO CONTROLL TRAINER	1
106	CASCADE CONTROL TRAINER	1
107	DIGITAL BOMB CALORIMETER	1
108	GAS CHOMOTOGRAPHY	1
109	DIGITAL STORAGE OSCILOSCOPE	2
110	PLC/SCADA&MONITORING CONTROL STATION	1
111	OXYZEN CYLINDER WITH GASCYLNO;3166	1
112	NITROGEN GAS CYLINDER WITH GAS CYLN:3263	1
113	O"AIR GACYLINDER WITHGAS CYLNO:3296	1
114	HYDROGEN GASCYLINDER WITHGAS CYLNO:231	1
115	GC , GAS PURIFICATIONPANEL & ACCESSORIES	1
116	DIGITALOSCILIOSCIPE (DL1640)70160-AC-F-J1/C1, SLNO:91FC23628	1


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DEPARTMENT OF INFORMATION TECHNOLOGY

EQUIPMENT

Total Lab Equipment & Software Cost: Rs. 96,37,247.92/-

Name of the Lab: IT Department Labs

S.No.	NAME OF THE ITEM	NUMBER
COMPUTERS		
1.	IBM X3500 Server	01
2.	HP-Proliant 350 ML Server	01
3.	IBM & Dell Laptops	07
4.	IBM Lenova Think Center Systems, Dual Core 2.8 GHz.	26
5.	IBM Lenova Think Center Systems, Dual Core 3.4 GHz.	20
6.	HP Compaq dx2280 PIV with hp 7500 &hp 7540 monitors	50
7.	IBM Think Center Systems with E74 monitors	45
8.	HP Compaq dx2000 PIV with hp 7500 &hp 7540 monitors	44
9.	Acer Veriton M200 G41 Desktops, 2.93 GHZ CPU	10
10.	Computer Desktop - Acer Veriton-M200 Desktop	04
11.	Computer Desktop - Dell Optiplex-7040 Desktop	01
12.	Computer Desktop - Dell Optiplex-3040 Desktop	24
SOFTWARE		
13.	IBM Rational Rose Suite	30-User Kit
14.	Turbo C++	60-User Kit
15.	Oracle 10g	Unlimited Licensed Version
16.	Windows XP Proff. OS	Unlimited Licensed Version
17.	MacAfee Antivirus	Unlimited Licensed Version
18.	Fedora 9.0	Educational Version
19.	Turbo C2	Educational Version
20.	TurboC	Educational Version
21.	TASM	Educational Version
22.	Java 1.5	Educational Version
23.	MS Office 2007	Unlimited Licensed Version
UPS		
24.	UPS11 KVA	06
25.	APCUPS	01
PERIPHERALS		
26.	Document Camera	01
27.	Sony Handy Cam	01
28.	Mega Phone(PA-System)	01
29.	Sony Play station	01
30.	HP-3030 Printer	01
31.	HPSJ Scanner	01
32.	HP-1200 Series Printer	01
33.	Projectors	02
34.	Total Amount	Rs 96,37,247.92/-

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DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION

EQUIPMENT

Name of the Department: Management Studies

Total Cost: Rs.1,83,960/-

S.No.	Brief Description of the Equipment	Qty.	Procurement Cost (Rs)
1.	Desk Top PC	6	1,04,760
2.	All-in-one Printer	1	79,200

DEPARTMENT OF ENGLISH

EQUIPMENT

Name of the Lab: **ELCS Lab**

Total Cost: **Rs: 24,14,988/-**

S. No	Brief Description of the Equipment	Cost	QTY	Procurement Cost Rs)
1	IBM systems	25,432.00.00	18	4,57,776.00
2	ACER Systems	17,724.00	28	4,96,272.00
3	Intel Systems (Assmebled)	15,000.00	20	3,00,000.00
4	LCD Projector	28,000.00	02	56,000.00
5	Software Details	1,06,500.00	01	1,06,500.00
		3,26,320.00	01	3,26,320.00
		1,30,000.00	01	1,30,000.00
		70,000.00	01	70,000.00
		63,000.00	01	63,000.00
6	Furniture	72,000.00	67 (Individual)	72,000.00
7	Public Addressing System	10,000.00	01	40,000.00
		19,600.00	04	
		10,400.00	02	
8	G.D Tables	4,500.00	08	36,000.00
9	Chairs	1,400.00	32	44,800.00
10	Hard Disk Key Boards Optical Mouse	3,500.00	01	6,400.00
		1,500.00	05	
		1,400.00	07	
11	AOC Monitors	4,400.00	03	13,200.00
12	V-Guard UPS	2,200.00	02	4,400.00
13	Projector Screen	7,500.00	01	7,500.00
14	3/8 Bosch Drill with Bits	2,770.00	01	2,770.00

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15	Lenovo External	4,650.00	01	4,650.00
16	AOC Monitors	4,300.00	10	43,000.00
17	DELL Systems	33,600.00	04	1,34,400.00
ELCS Lab Total:				24,14,988.00

DEPARTMENT OF MATHEMATICS

EQUIPMENT

Name of the Lab: **Computational Mathematics Lab**

Total Cost: Rs. 2,98,990/-

S.No	Brief Description of the Equipment	Qty.	Cost (Rs)
1.	Mathematica software-10.0	01	85000.00
2.	Dell Inspiron 5547 Laptop	01	39500.00
3.	Epson L-850 Printer	01	25000.00
4.	Dell Optiplex 3040 systems	04	136290.00
5.	Ups-Model no-SESTODX600	06	13200.00
Total (Two Lakhs ninety eight thousand nine hundred and ninety)			2,98,990.00

DEPARTMENT OF PHYSICS

EQUIPMENT

Lab Equipment Total Cost: Rs. 10.17 Lakhs

S. No	Brief Description of the Equipment	Qty.	Procurement Cost (Rs)
1	Engineering Physics Lab	13	5,62,200.00
2	Glass – Ceramics, Physics Research Lab	3	4,54,849.00

NAME OF THE LABORATORY: **ENGINEERING PHYSICS**


S.NO.	DESCRIPTION	PRICE	QT Y.	COST
1	Hall Effect (Crescent Trading Company) Determination of type of semiconductor Carrier Concentration Mobility of Charge Carriers	41000.00	2	82000.00
	Hall Effect (Mikron Instruments)	39500.00	1	39500.00
2	Four Probe Conductivity (Crescent Trading Company) Determination of Energy gap of semiconductor	15000.00	2	30000.00
	Four Probe Conductivity (Mikron Instruments)	24000.00	1	24000.00
3	Dielectric Constant (Pushpa Scientifics) Determination of dielectric constant of insulating materials	31600.00	1	31600.00
	Dielectric Constant (Mikron Instruments)	19800.00	1	19800.00
	Capacitance Box	3400.00	1	3400.00

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4	Thermo Electric Power Set up (Pushpa Scientifics) Determination of Thermo Electric Power and energy gap of materials	43750.00	1	43750.00
5	He-Ne Laser (Crescent Trading Company) Determination of wavelength of laser	22000.00	1	22000.00
	Grating	1460.00	5	7300.00
6	Diode Laser (Crescent Trading Company) Determination of particle size	4850.00	2	9700.00
	Diode Laser (Mikron Instruments)	4290.00	2	8580.00
7	Spectrometer (Crescent Trading Company) Determination of dispersive power Determination of wavelength of source	5990.00	6	35940.00
	Prism	585.00	10	5850.00
	Reading lens	95.00	8	760.00
	spirit level	90.00	4	360.00
8	Travelling Microscopes (Crescent Trading Company) Determination of wavelength Determination of radius of curvature of Plano convex lens	4800.00	6	28800.00
9	Optical fiber set up (Crescent Trading Company) Determination of Numerical Aperture Determination of Bending losses of the optical fiber	18500.00	3	55500.00
	OFC	4500.00	3	13500.00
10	Torsional Pendulum (Crescent Trading Company) Determination of Rigidity modulus	6735.00	5	33675.00
	Screw Guage	260.00	3	780.00
	Vernier Calipers	285.00	3	855.00
	Digital Multimeter	1850.00	1	1850.00
	Brass wire	220.00	1	220.00
	Steel wire	220.00	1	220.00
	Meter Scales	110.00	5	550.00
11	Stewart Gee's (Crescent Trading Company) Determination of intensity of magnetic field	5110.00	4	20440.00
	Regulator Power Supply	5260.00	1	5260.00
12	Sonometer (Crescent Trading Company) Verification of laws of transverse vibrations	3190.00	4	12760.00
13	Solar I-V Characteristics (Mikron Instruments) Study of I-V characteristics of Solar Cell	4650.00	5	23250.00
Grand Total		Rs 5,62,200.00		



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DEPARTMENT OF CHEMISTRY

EQUIPMENT

Lab Equipment Total Cost: Rs. 9,18,193/-

S. No	Brief Description of the Equipment	Qty.	Procurement Cost (Rs)
1.	Bomb Calorimeter (Determination of calorific value of solid & Liquid for student lab and research purpose)	2	1,70,500.00
2.	Digital Conductivity Meter (Determination of conductance and strength of the acids and base)	8	49,200.00
3.	Photo Electric Calorimeter (Determination of Absorbance and verification of beers law)	4	29,800.00
4.	pH Meter (Determination of pH of various acidic and basic solutions)	1	4,200.00
5.	Refractometer (Refractoriness of the solids and liquid samples)	1	24,300.00
6.	Digital Bulk Density apparatus (To Determination of density of solid substances)	1	27,000.00
7.	Electrical Balance (The sensitivity of upto third decimal of the weight can be determine the accurately)	1	4,800.00
8.	Redwood Viscometer No I (To determine the viscosity of Thick samples)	2	14,400.00
9.	Redwood Viscometer No II (To determine the viscosity of Thin samples)	2	13,600.00
10.	Analytical Balance (The sensitivity of upto fourth decimal of the weight can be determine the accurately)	30	66,750.00
11.	Water Analyzers (It is very helpful in water analysis of the samples it includes calorimeter, DO, Conductivity, TDS,pH,Salinity and Temperature.	1	74,920.00
12.	BOD Incubator (To determine the amount of biological oxygen required in water samples)	1	84,480.00
13.	COD Apparatus (To determine the Chemical oxygen requirement in water samples)	1	11,100.00
14.	Digital electronic balance (We can determine upto third decimal accurately upto one Kg of the substance)	1	15,900.00
15.	Glassware & amp; Chemicals		3,23,243.00


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Chemistry Lab

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