



SHRI SHANKARACHARYA TECHNICAL CAMPUS

Shri Shankaracharya Group of Institutions

Faculty of Engineering & Technology

(Managed by Shri Gangajali Education Society, Bhilai)

JUNWANI, BHILAI-490 020 (CHHATTISGARH), INDIA

Phone: 0788-2291605, 2291607, Fax: 0788-2291606, E-mail: ssgi@ssgi.edu.in



Department of Electrical Engineering

List of Equipment & Price Electrical Machine Lab-I

S.No.	Equipment/Kits	Date of Purchase	Qty	Rate	Cost
1.	Ammeter all type	10/8/2002	28	1175	32900
2.	1 Φ Auto transformer	17/8/2000	1	2930	2930
3.	1 Φ Auto transformer	28/4/2001	1	4950	4950
4.	Dimmer stat- 3 phase	28/3/2003	2	35000	70000
5.	DC Compound motor	16/10/2000	1	7840	7840
6.	DC Shunt motor with brake drum	28/4/2001	2	19845	39690
7.	DC Series motor with brake drum	28/04/2001	1	20241	20241
8.	DC Generator coupled with 3 phase	28/04/2001	1	18423	18423
9.	Field regulator for DC shunt generator	28/04/2001	2	1098	2196
10.	Lamp load	28/04/2001	2	1500	3000
11.	Digital Multimeter	7/5/2000	4	2600	10400
12.	3 point DC starter	16/10/2000	3	1692	5076
13.	2 point starter	28/04/2001	1	1620	1620
14.	DOL starter	28/04/2001	1	1440	1440
15.	Rheostat	21/07/2001	3	1178	3534
16.	Rheostat 3.3A/ 190 ohm	16/10/2000	1	3326	3326
17.	Transformer 1 phase/ 3KVA/115V	23/10/2002	1	18745	18745
18.	Transformer 2 KVA/1 phase	28/04/2001	2	6900	13800
19.	Transformer 1 phase 230/115V, 3KVA	14/08/2002	3	8900	26700
20.	Transformer 3 phase 440/230V, 3KVA	19/09/2002	2	13000	26000
21.	Transformer 1 phase 230/230V,3KVA	28/03/2003	2	13650	27300
22.	Thyristor convertor	28/04/2001	3	6310	18930
23.	Voltmeter All type	10/8/2002	13	1175	15275
24.	Wattmeter All type	10/8/2002	5	1900	9500
25.	Single phase transformer 2 KVA 230/115 volts with tapping	10/6/2002	2	7750	15500
26.	Ammeter all type	17/04/2017	02	2300.00	4600
27.	1 Φ Auto transformer(10Amp.)	17/04/2017	03	13200.00	39600
28.	3 point Starter	17/04/2017	02	4800.00	9600
29.	Dimmer stat- 3 phase	17/04/2017	01	4200.00	4200
Total					4,57,316

HOD(EE)
(Prof. Shruti Tiwari)



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Department of Electrical Engineering

List of Equipment & Price

Basic Electrical and Electronic Engg. Lab

S.No	Equipment/Kits	Date of Purchase	Qty	Rate	Cost
1.	Ammeter MI(0-2A)	15/6/2002	1	1182.50	1182.50
2.	Ammeter MI (0 -3A)	21/10/02	1	1075.00	1075.00
3.	Ammeter MI (0 -2A)	29/08/02	1	1182.00	2400.00
4.	Ammeter MI (0 -1A)	15/06/02	2	1738.00	3476.00
5.	Ammeter MI (0 -15/30A)	21/10/02	3	1125.00	3375.00
6.	Ammeter MI (0 -0.5A)	15/06/02	1	1738.00	1738.00
7.	Choke coil 45A,230V		5	100.00	500.00
8.	Digital Multimeter	16/3/15	1	999.00	999.00
9.	Analog Multimeter (TES 310)	14/07/09	1	3100.00	3100.00
10.	Voltmeter MI(0- 300V)	07/08/01	3	1075.00	3225.00
11.	Voltmeter MI(0- 15V)	15/06/02	1	1793.00	1793.00
12.	Voltmeter MI(0- 300V)	07/08/01	1	1182.00	1182.00
13.	Voltmeter MI(0- 150V)	0/06/02	1	1075.00	1075.00
14.	V.I. Characteristics of a resistance kit	13/09/01	1	291.00	291.37
15.	Wattmeter 500V , 10/2A 1 phase	07/08/01	2	1850.00	3700.00
16.	Auto Transformer 1 phase , 5A, 0- 260V	17/10/00	3	2930.00	8790.00
17.	Auto Transformer 3 phase , 15A, 0- 470V	29/04/01	1	149500.00	149500.00
18.	Rheostat 100 ohm , 1.8A,	17/10/00	3	785.00	2355.00
19.	Rheostat 34 ohm , 2.8A	17/10/00	1	715.00	715.00
20.	Function generator 1 MHz	15/06/02	1	8525.00	8525.00
21.	Function generator 1 MHz	21/08/02	2	7362.00	14724.00
22.	Kirchhoff Current Law (NTC -001)	09/05/11	1	2090.00	2090.00
23.	Lamp load 1 phase200W, 100 W		4	110.00	440.00
24.	Norton 's Theorem kit	06/04/00	1	2400.00	2400.00
25.	Norton Analyzer Kit	12/09/01	1	291.37	291.37
26.	Ohm's Law	19/10/04	1	2400.00	2400.00
27.	Super position Theorem kit	06/04/00	2	2400.00	4800.00
28.	Super position Theorem kit	19/10/04	1	2250.00	2250.00
29.	Thevenins Theorem kit 201	17/05/11	1	3600.00	3600.00
30.	Thevenins Theorem kit 202	17/05/11	1	3600.00	3600.00
31.	Series & Parallel Resonance kit	06/04/00	2	1200.00	2400.00
32.	Digital Multimeter DM 3540A	19/11/10	2	1950.00	1950.00

33.	Reciprocity Theorem	15/11/09	1	2400.00	2400.00
34.	Maximum Power Theorem	06/04/00	1	2400.00	2400.00
35.	RLC Trainer Kit	17/04/17	1	3000.00	3000.00
36.	Vernier Callipers	16/03/15	1	535.00	535.00
37.	Screw Gauge	16/03/15	1	340.00	340.00
38.	Capacitor	16/03/15	1	380.00	380.00
39.	Multimeter	19/03/18	1	3180.00	3180.00
40.	RLC Circuit (with Function Generator)	19/03/18	1	7240.00	7240.00
41.	BH Curve Testing Kit	19/03/18	1	5460.00	5460.00
42.	Superposition Theorem	19/03/18	1	3040.00	3040.00
43.	Thevenin Theorem	19/03/18	1	3040.00	3040.00
44.	Norton Theorem	19/03/18	1	3040.00	3040.00
45.	Variac (Range-15 A)	19/03/18	2	6880.00	13760.00
46.	Auto Transformer	19/03/18	1	4750.00	4750.00
				Total	2,89,675.24

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Department of Electrical Engineering

List of Equipment & Price

Computer Lab

Hardware Details of the Lab			
S. No.	Name of Hardware	No.of Users	Total Expenditre
1	Microsoft Windows XP Professional Intel @Pentium (R) CPU Speed-2.60 GHZ RAM-1 GB Hard Disk-160GB Monitor-CRT Company Name-International Business Machine(IBM)	30	1060800.00
2.	Revolving Chair	50	
3.	Computer Table	20	

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List of Equipment & Price

High Voltage Lab

S.No	Equipment/Kits	Date of Purchase	Qty	Rate	Cost
1	100KV AC/100KV DC test set	19-09-08	1	215000	215000
2	100mm sphere gap	19-09-08	1	69200	69200
3	Rod-gap apparatus	19-09-08	1	63250	63250
4	50KV insulation tester	19-09-08	1	34500	34500
5	100KV Capacitor divider	19-09-08	1	56150	56150
6	11KV disc insulator	19-09-08	1	3800	3800
7	11KV disc insulator string (6 discs)	19-09-08	1	27250	27250
8	Corona Cage	19-09-08	1	28000	28000
9	Artificial rain equipment	19-09-08	1	74500	74500
10	150KV , 225J 5 stage Impulse Generator	19-09-08	1	535000	535000
11	Motorized oil test set	19-09-08	1	35000	35000
				Total	11,41,650

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List of Equipment & Price Electrical Machine -II & Machine- III Labs

S.No	Equipment/Kits	Date of Purchase	Qty.	Rate	Cost
1	Auto Transformer 1 Φ	17/08/00	3	2930	8790
2	Ammeter , 0-2A MC type	07-02-01	2	1175	2350
3	Ammeter , 0-3A M I type	28/07/03	4	1137	4548
4	Ammeter , 0-5A MC type	28/07/04	5	1230	6150
5	Ammeter , 0-10A MC type	07-02-01	2	1175	2350
6	Ammeter , 0-10A M I type	28/07/05	8	1137	9096
7	Ammeter , 10/20A M I type	08-10-02	1	1125	1125
8	Ammeter , 15/30A MC type	08-10-02	1	1125	1125
9	Ammeter , 30A MC type	28/07/05	8	1230	9840
10	Digital frequency meter	19/12/03	2	1314	2628
11	Dimmer stat 3 Φ	28/03/03	2	35000	70000
12	3 Φ Induction motor coupled with shunt generator	07-12-03	1	44030	44030
13	3 Φ Slip ring Induction motor coupled with shunt generator	07-12-03	1	35080	35080
14	3 Φ Induction motor (Slip ring type) mechanically coupled with brake drum	07-12-03	1	27170	27170
15	P.F. meter 3 Φ 500V/ 10A	19/12/03	1	4224	4224
16	P.F. meter 3 Φ 440V/ 5A	19/12/04	1	3444	3444
17	P.F. meter 3 Φ 500V/ 10A	19/12/05	1	4556	4556
18	Rheostat 1.5A , 100 ohm	08-10-00	2	485	970
19	Rheostat 5.2A , 20 ohm	19/12/07	1	670	670
20	Rheostat 1. 8A , 100 ohm	19/12/08	1	785	785
21	Starter 3 point	07-12-03	3	1598	4794
22	Starter DOL	12/0703	2	1402	2804
23	Starter panel	12/0703	3	4550	13650
24	Starter panel cum exciter	12/0703	1	14960	14960
25	Starter panel cum exciter for smtr	12/0703	1	8220	8220
26	Starter (Auto transformer type)	07-12-03	1	18100	18100
27	Semi automatic starter	08-07-03	1	5100	5100
28	Fully automatic starter	08-07-03	1	6600	6600
29	Synchronous Induction motor mechanically coupled with DC shunt generator	07-12-03	1	47410	47410
30	Synchronous motor mechanically coupled with DC shunt generator	07-12-03	1	35080	35080
31	Cylindrical Rotor type Alternator mechanically coupled with DC shunt motor	07-12-03	2	42150	84300
32	Salient pole type Alternator mechanically coupled with DC shunt motor	07-12-03	1	41030	41030
33	SynchroScope	19/12/03	1	6468	6468
34	Tachometer contact type	05-01-02	1	1900	1900

35	Tachometer Non contact type	04-10-02	1	3432	3432
36	Thyristor Convertor	17/11/03	3	55692	167076
37	Voltmeter MI 0-600V	28/07/03	12	1137	13644
38	Voltmeter MI 0-600V	07-02-01	1	1075	1075
39	Voltmeter MI 300-600V	08-10-02	7	1125	7875
40	Voltmeter MI 0-300V	02/07/01	1	1075	1075
41	Voltmeter MI 0-300V	28/07/03	8	1230	9840
42	Voltmeter MI 0-30V	27/07/00	1	1630	1630
43	Voltmeter MI 0-75V	27/07/00	1	1630	1630
44	Voltmeter MI 0-150V	05-01-02	1	1182	1182
45	Wattmeter LPF 3 phase 415V, 15A	19/12/03	2	4350	8700
46	Wattmeter LPF 3 phase 415V, 10A	19/12/03	2	4224	8448
47	Wattmeter LPF 3 phase 440V, 10A	19/12/03	2	4440	8880
48	Wattmeter Dynamometer type	08-10-02	3	1900	5700
49	Wattmeter 300V/ 3A	08-10-02	1	1850	1850
50	Rheostat 3 phase	29/06/2017	1	2100	2100
51	Tachometer Digital	29/06/2017	3	2400	7200
52	Multimeter	29/06/2017	2	1400	2800
53	Clamp meter	29/06/2017	2	1400	2800
				Total	7,86,284

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List of Equipment & Price Electrical Workshop Lab

S.No	Equipment/Kits	Date of Purchase	Qty.	Rate	Cost
1	Electrical Drill Machine	22/06/13	1	2200	2200
2	Hand Drill Machine	20/02/13	1	190	190
3	Hand Drill machine for PCB	22/06/13	1	225	225
4	Energy meter	20/06/13	1	750	750
5	Hydro meter	02/07/13	1	170	170
6	Electric Iron	20/06/13	1	285	285
7	Nose Plier	20/06/13	1	70	70
8	Digital Multimeter	24/06/13	1	1500	1500
9	Transformer	22/06/13	1	130	130
Total					5,520

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List of Equipments with Price Instrumentation Lab

S.No	Equipment/Kits	Date of Purchase	Qty	Rate	Cost
1.	Analog to Digital Convertor	16/03/2016	1	9000	9000
2.	Digital To Analag Convertor	16/03/2016	1	9000	9000
3.	Peizoz Electric Tranducer kit	16/03/2016	1	83400	83400
4.	Speed control of DC motor by PLC setup	16/03/2016	1	5200	5200
5.	Industrial automation	16/03/2016	1	74800	74800
6.	Measurement of current by Hall sensor	16/03/2016	1	900	900
7.	50MHz Dual channel Digital storage oscilloscope	16/03/2016	2	39500	79000
8.	4.5 Digital multimeter	16/03/2016	2	3400	6800
9.	Measurement of Current, Voltage	16/03/2016	1	39900	39900
10.	Capacitive Displacement Sensor	16/03/2016	1	1500	1500
11.	Measurement of Liquid Level	16/03/2016	1	2300	2300
12.	Measurement of force using strain guage	16/03/2016	1	4600	4600
13.	Measurement of Displacement for LVDT	09/09/2010	1	7380	7380
14.	Measurement of Displacement by Inductive Transducer	09/09/2010	1	6570	6570
15.	Measuring angular display with Capacitive Transducer	09/09/2010	1	4140	4140
16.	Temperature Measurement with Thermocouple	09/09/2010	1	5760	5760
17.	Strain guage Trainer	09/09/2010	1	10,620	10,620
18.	Level Measurement with capacitive transducer	09/09/2010	1	4140	4140
19.	4mm Patch chords	15/04/2008	1	2250	2250
				Total	3,57,260

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List of Equipments with Price EMMI Lab

S.No.	Equipment/Kits	Date of Purchase	Qty	Rate	Cost
1	Wheat Stone, bridge kit	25/07/2000	1	2400	2400
2	Wheat Stone, bridge kit	16/12/2003	2	13500	26300
3	Anderson bridge kit	25/07/2000	1	2400	2400
4	Anderson bridge kit	16/12/2003	1	5800	5800
5	De saute 's bridge kit	25/07/2000	1	2400	2400
6	De saute 's bridge kit	16/12/2003	1	5250	5250
7	Maxwell bridge kit EE-124	25/07/2000	1	2400	2400
8	Maxwell bridge kit (395) (0393)	16/12/2003	1	6550	6550
9	Maxwell bridge kit (395) (0392)	16/12/2003	1	6550	6550
10	Hays Bridge kit (392) (383)	16/12/2003	2	6750	13500
11	Weins bridge kit (0391)	16/12/2003	1	5350	5350
12	Kelvin bridge (04153)	16/12/2003	1	20600	20600
13	Schering bridge	16/12/2003	2	5750	11500
14	Energy meter (2.5A) 240v 1 phase	18/01/2000	1	468	468
15	Earth tester	21/10/2002	1	2800	2800
16	Wattmeter	27/12/2000	1	3372	3372
17	Voltmeter	15/06/2002	2	1182	2365
18	Ammeter	15/06/2002	1	1182	1182
19	Ammeter	15/06/2002	1	1137	1137
20	Variac	17/08/2000	2	2930	5860
21	Current Transformer	17/08/2001	1	2805	2805
22	Multimeter	10/12/2007	2	900	1800
23	Stop watch	14/07/2009	1	500	500
24	Galvanometer	28/01/2009	1	1050	1050
25	Network and Bridge	09/05/2011	1	9500	9500

26	Oscilloscope	14/07/2011	1	18013	18013
27	Desauty bridge trainer	26/05/2011	1	6500	6500
28	Anderson bridge trainer	26/05/2011	1	6500	6500
29	Schering bridge trainer	26/05/2011	1	6500	6500
30	Hay's bridge trainer	26/05/2011	1	6500	6500
31	LCR meter bridge	20/02/2011	1	13224	13224
32	Wheatstone bridge trainer	26/05/2011	1	6500	6500
Total				2,07,576	

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List of Equipments with Price Switchgear & Protection Lab

S.No.	Equipment/Kits	Date of Purchase	Qty	Rate	Cost
1	Current Transformer C.T. Ratio 50/5, 5VA	14/09/2010	2	720	1440
2	Generator Protection system with relay Panel, M-G Set	15/12/2007	1	335925	335925
3	IDMI over current relay (Electro Mechanical) with testing kit	10/08/2006	1	48000	48000
4	Negative sequence current relay testing Kit	10/08/2006	1	45400	45400
5	Under voltage relay testing kit	10/08/2006	1	428000	428000
6	Motor Protection Simulation Testing kit	10/08/2006	1	192000	192000
7	Potential Transformer	-	1		
8	400 K Transmission Line Simulator With Protection system	25/02/2009	1	278000	278000
9	Transformer Protection Pannel (Differential Relay)	18/01/2012	1	342000	342000
Total				16,70,765	

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