



KRISHNACHAITANYA INSTITUTE OF TECHNOLOGY & SCIENCES

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DEPARTMENT OF CIVIL ENGINEERING

List of the Major Equipment in Laboratories

1. Strength of Materials Lab

S.No	Name Of The Equipmentmachinery	Date Of Purchase	Number Available	Cost Each(In Rs)	Total Cost(In Rs)
1	UNIVERSAL TESTING MACHINE	13-7-11	1	3,65,000	3,65,000
2	DOUBLE SHEAR TEST ATTACHMENT	13-7-12	1	13,800	13,800
3	TORSION MACHINE	13-7-13	1	1,22,600	1,22,600
4	ROCK WELL CUM BRINELL HARDNESS	13-7-14	1	41,500	41,500
5	SPRING MACHINE	13-7-15	1	56,700	56,700
6	PENDULAM IMPACT MACHINE	13-7-16	1	66,500	66,500
7	COMPRESSION MACHINE	13-7-17	1	1,25,000	1,25,000

2. Fluid Mechanics and Hydraulics Machinery Lab

S.No	Name Of The Equipmentmachinery	DATE OF PURCHASE	NUMBER AVAILABLE	COST EACH(IN Rs)	TOTAL COST(IN Rs)
1	IMPACT OF JET ON VANES	10/8/2009	1	39,500	39,500
2	PELTON WHEEL	10/9/2009	1	129,000	129,000
3	SINGLE STAGE CENTRIFUGAL PUMP	10/10/2009	1	55750	55750
4	MULTISTAGE CENTRIFUGAL PUMP	10/11/2009	1	65000	65000
5	RECIPROCATING PUMP	10/12/2009	1	52760	52760
6	VENTURI&ORIFICE METER	10/13/2009	1	43850	43850
7	FRICTION FACTOR APPARATUS	10/14/2009	1	39000	39000
8	TURBINE FLOW METER	10/15/2009	1	48000	48000
9	BERNOULIS THEOREM SET UP	10/16/2009	1	37500	37500
10	RECTANGULAR&TRIANGULAR NOTCH SET UP	10/17/2009	1	34200	34200
11	SMALL ORIFICE AND EXTERNAL MOUTH PIECE SET UP	10/18/2009	1	34500	34500
12	FRANCIS TURBINE	10/19/2009	1	110500	110500

3. Surveying lab

S.No	Name Of The Equipmentmachinery	DATE OF PURCHASE	NUMBER AVAILABLE	COST EACH(IN Rs)	TOTAL COST(IN Rs)
1	THEODALITE	3/11/2011	10	13000	1,30,000
2	DUMPY LEVEL	3/11/2011	1	4500	4500
3	AUTO LEVEL	3/11/2011	10	9000	90000
4	PLANE TABLE	3/11/2011	10	3200	32000
5	PRISMATIC COMPASS WITH STAND	3/11/2011	12	1600	19200
6	CROSS STAFF WITH WOODEN HEAD	3/11/2011	12	550	6600
7	CHAIN (30mts)	3/11/2011	2	750	1500
8	CHAIN (20mts)	3/11/2011	12	650	7800
9	TAPES(30Mts)	3/11/2011	2	401	802
10	TAPES(15Mts)	3/11/2011	12	240	2880
11	SURVEY COMPASS WITH STAND	3/11/2011	1	1800	1800
12	RANGING RODS	3/11/2011	40	320	12800
13	PLANEMETER	3/11/2011	1	1800	1800
14	LINE RANGER	3/11/2011	1	800	800
15	BOX SEXTANT	3/11/2011	1	1600	1600
16	OPTICAL SQUARE	3/11/2011	1	550	550
17	ARROWS	3/11/2011	200	5	1000
18	HAMMER WITH HANDLE	3/11/2011	4	110	440
19	4M LEVELLING STAFF	3/11/2011	12	850	10200
20	5M LEVELLING STAFF	3/11/2011	1	1050	1050
21	SURVEY UMBREALLA	3/11/2011	1	1800	1800
22	PEGS	3/11/2011	20	45	900
23	HAND LEVEL	3/11/2011	2	250	500

4. Engineering Geology Lab

S.No	Name Of The Equipmentmachinery	Date Of Purchase	Number Available	Cost Each(In Rs)	Total Cost(In Rs)
1	MINERAL SPECIMENS	26-5-12	64	300	19,200
2	ROCK SPECIMENS	26-5-12	66	300	19,800
3	DIP ,STRIKE IN INCLINED STRATA	26-5-12	1	1200	1200
4	TRUE AND APPARENT DIP IN INCLINED STRATA	26-5-12	1	1200	1200
5	DIP ,STRIKE IN FOLDED STRATA	26-5-12	1	1200	1200
6	SYMMETRICAL ANTICLINE/SYNCLINE	26-5-12	1	1000	1000
7	MONOCLINAL FOLD	26-5-12	1	1000	1000
8	RECUMBENT FOLD	26-5-12	1	1200	1200
9	DOME FOLD	26-5-12	1	1200	1200
10	BASIN FOLD	26-5-12	1	1200	1200
11	MODELS & REVERSE FAULT	26-5-12	1	1200	1200
12	MODELS & NARMAL FAULT	26-5-12	1	1200	1200
13	MODELOF RIDGE AND TROUGH FAULT	26-5-12	1	1000	1000
14	STRIKE FAULT INCLINED STRATA	26-5-12	1	1000	1000
15	DIP FAULT IN INCLINED STRATA	26-5-12	1	1000	1000
16	STREAK COLLECTION SET	26-5-12	1	1100	1100
17	ODOUR COLLECTION SET	26-5-12	1	1100	1100
18	POCKET LENS	26-5-12	6	80	480
19	STREAK PLATES	26-5-12	50	60	3000
20	LUSTRE COLLECTION SET	26-5-12	1	1100	1100
21	CLEAVAGE COLLECTION SET	26-5-12	1	1100	1100
22	FRACTURE COLLECTION SET	26-5-12	1	1100	1100
23	HARDNESS SET(9)	26-5-12	1	1100	1100

5. Concrete technology lab

S.No	Name Of The Equipmentmachinery	Date Of Purchase	Number Available	Cost Each(In Rs)	Total Cost(In Rs)
1	VICAT APPARATUS	16/6/12	3	2900	8700
2	CUBES(70.6mm)	16/6/12	9	550	4950
3	LECHATLIER APPARATUS(3)	16/6/12	2	1395	2790
4	SPECIFIC GRAVITY BOTTLE	16/6/12	2	250	500
5	SLUMP TEST	16/6/12	2	1800	3600
6	COMPACTION FACTOR TEST	16/6/12	1	16,500	16,500
7	VEE-BEE CONSISTOMETER	16/6/12	1	21,000	21,000
8	VIBRATING TABLE	16/6/12	1	30,500	30,500
9	PYCNOMETER	16/6/12	3	600	1800
10	BULK DENSITY CYLINDERS(3)	16/6/12	1	4850	4850
11	COARSE AGGREGATE TEST SIEVES SET	16/6/12	1	6750	6750
12	SIEVE SHAKER	16/6/12	1	9500	9500
13	FLAKINESS TEST GAUGE	16/6/12	3	600	1800
14	ELONGATION TEST GAUGE	16/6/12	3	600	1800
15	FINE AGGREGATE SIEVES	16/6/12	1	3185	3185
16	CUBES(150mm)	16/6/12	15	2400	36000
17	BEAM MOULDS	16/6/12	6	6200	37200
18	TROLLY	16/6/12	1	4500	4500
19	CYLINDRICAL MOULDS	16/6/12	3	4550	13650
20	WEIGHING BALANCE(60Kg)	16/6/12	1	8500	8500
21	REBOUND HAMMER	16/6/12	1	50,000	50,000

6. Transportation Engineering Lab

S.No	Name Of The Equipmentmachinery	Date Of Purchase	Number Available	Cost Each(In Rs)	Total Cost(In Rs)
1	Aggregate crushing value Apparatures	1/12/2012	1	4950	4950
2	Aggregate impact testing machine along withcounter	1/12/2012	1	9450	9450
3	Los angels Abration testing machine	1/12/2012	1	59750	59750
4	devals attrition test appartus	1/12/2012	1	48500	48500
5	Pycnometers bottle 1lit	1/12/2012	1	475	475
6	Bitumen Penetration test	1/12/2012	1	6850	6850
7	Ring & Ball Appratus	1/12/2012	1	8950	8950
8	Abel Flash &Fire Point test	1/12/2012	1	9850	9850
9	Penskey mortens appratus	1/12/2012	1	9850	9850
10	Ductility testing machine	1/12/2012	1	39750	39750
11	Lenth and thicness gauge	1/12/2012	1	900	900
12	Enamel trays 12X18	1/12/2012	4	675	2700
13	G.I.Trays big size	1/12/2012	4	750	3000
14	G.I.Trays small size	1/12/2012	6	450	2700

7. Geotechnical Engineering Lab

S.No	NAME OF THE EQUIPMENTMACHINERY	DATE OF PURCHASE	NUMBER AVAILABLE	COST EACH(IN Rs)	TOTAL COST(IN Rs)
1	Electronic Weighing Balance 30 Kg	1/12/2012	1	7850	7850
2	Electronic Weighing Balance 600 Gm	1/12/2012	1	13750	13750
3	Hot Air Oven	1/12/2012	1	29750	29750
4	G.I.Trays	1/12/2012	4	475	1900
5	Pycnometers Bottle 1lit	1/12/2012	3	475	1425
6	Soil Hydrometer 1 Lit	1/12/2012	1	2150	2150
7	Liquid Limit Device	1/12/2012	2	2350	4700
8	Plastic Limit Device	1/12/2012	2	1350	2700
9	Shinkage Limit Device	1/12/2012	2	1350	2700
10	Field Density By Core Cutter	1/12/2012	2	2950	5900
11	Sand Replacement Method 4" Cylinder	1/12/2012	2	2950	5900
12	Sand Replacement Method 6" Cylinder	1/12/2012	1	4950	4950
13	Proctors Compaction Test Apparatus Light	1/12/2012	2	3750	7500
14	Proctors Compaction Test Apparatus Heavy	1/12/2012	2	4750	9500
15	C.B.R. Testing Equipment 3 Speed	1/12/2012	1	59750	59750
16	Provin Dial Gauge 50 Kn	1/12/2012	1	9850	9850
17	C.B.R. Mould	1/12/2012	3	1675	5025
18	C.B.R. Surcharge Weights	1/12/2012	3	1150	3450
19	Performed Brass Plate For C.B.R.Mould	1/12/2012	3	975	2925
20	Trypod For Holding Dailgauge	1/12/2012	3	550	1650
21	Dail Gauge 25mm, 0.01	1/12/2012	2	1875	3750
22	Permaiability Apparatus	1/12/2012	1	36750	36750
23	Moisture Content Cans	1/12/2012	24	55	1320
24	Direct Shear Apparatus	1/12/2012	1	68750	68750
25	Vane Shear Apparatus	1/12/2012	1	19750	19750
26	One Dimensional Consolidation Test Apparatus	1/12/2012	1	39750	39750
27	Spatulass 6"	1/12/2012	4	175	700

8. ENVIRONMENTAL ENGINEERING

S.No	Name Of The Equipmentmachinery	Date Of Purchase	Number Available	Cost Each(In Rs)	Total Cost(In Rs)
1	PH Meter	15/6/13	1	10500	10500
2	Turbidity meter	15/6/13	1	13400	13400
3	Conductibility meter	15/6/13	1	10300	10300
4	Hot air oven	15/6/13	1	1350	1350
5	Muffle furnace	15/6/13	1	16500	16500
6	Dissolved oxygen Meter	15/6/13	1	9800	9800
7	COD Reflux Apparatus	15/6/13	1	20000	20000
8	Jar Test Apparatus for 6 tests	15/6/13	4	20000	80000
9	BOD Incubator	15/6/13	1	60000	60000
10	AUTO CLAVE 10x18	15/6/13	1	40000	40000
11	LAMINAR CHAMBER FLOW 2X2	15/6/13	1	58000	58000
12	BURETTES'S 500ML	15/6/13	12	1050	12600
13	PIPETTES	15/6/13	12	600	7200
14	CONICAL FLASK 500ML	15/6/13	12	500	6000
15	BEAKERS 500ML	15/6/13	12	350	4200
16	SIMPLE BALANCE	15/6/13	6	2500	15000
17	NESSELERS TUBE 100ML	15/6/13	12	550	6600
18	EVAPORATING DISHES BOROSILICATE 6"	15/6/13	6	1600	9600
19	DESSICATORS	15/6/13	6	5800	34800
20	THERMOMETER	15/6/13	12	300	3600
21	PH STRIPS (paper)	15/6/13	6	550	3300
22	AIR TIGHT BOD BOTTLE 300ML	15/6/13	6	700	4200
23	SIEVE – 6 DIFFERENT SIZE	15/6/13	6	1200	7200
				Total cost	446300