



## **DEPARTMENT OF CIVIL ENGINEERING**

### **GEOTECHNICAL ENGINEERING LABORATORY**

#### LIST OF EQUIPMENTS WITH COST AND AREA

<b>SNO</b>	<b>NAME OF THE EQUIPMENT</b>	<b>QUANTITY</b>	<b>COST for each (in Rupees)</b>
1	Liquid limit device	3	2,655
2	Plastic limit device	1	2,381
3	Shrinkage limit apparatus	1	2,952
4	Proctor mould with rammer	1	9,786
5	Core cutter with dolly and hammer	1	3,370
6	Sand pouring cylinder	1	5,362
7	Hydrometer	3	634
8	Pycnometer	5	952
9	Permeability apparatus	1	44,184
10	Oven –hot air (aluminium)	1	13,800
11	Sieves	17	853
12	Electronic Balance 600gm capacity	1	6,300
13	Electronic Balance 15 Kg capacity	1	2,970
14	Electronic Balance 6kg capacity	1	5,130
15	Sample extractor (Hand operated)	1	8,484
16	California Bearing Ratio Apparatus	1	1,09,532
17	Unconfined Compression Tester	1	84,801
18	Relative Density apparatus	1	1,44,091
19	Sampling Tube	1	935

20	Direct Shear apparatus	1	1,14,489
21	Vane Shear apparatus	1	21,868
22	Swell test apparatus	1	63,708
23	CBR Moulds Set	1	1,57,500
24	3 Gang Consolidation apparatus	1	1,79,346
25	Triaxial Testing Analog	1	2,74,308
26	Graduated Jar 50cc	5	180
27	Graduated Jar 100cc	5	225
28	Graduated Jar 500cc	1	117
29	Graduated Jar 1000cc	1	225
30	Graduated Jar (TPX)	1	1,170
31	Cone Penetrometer	2	2,430

Name of the Laboratory	Carpet area (sq.m)
Geotechnical Engineering Laboratory	100



## **DEPARTMENT OF CIVIL ENGINEERING**

### **GEOMATICS LABORATORY**

#### LIST OF EQUIPMENTS WITH COST AND AREA

<b>SNO.</b>	<b>NAME OF THE EQUIPMENT</b>	<b>QUANTITY</b>	<b>COST for Each (in Rupees)</b>
1	Prismatic Compass	6	266
2	Lynx Theodolite	6	3,166
3	Tripods for Theodolite		
4	Optical Square	1	1,000
5	Survey chains	10	1,200
6	Clinometer Compass	1	3,000
7	Cross staff	15	1,244
8	Survey Compass	1	3,368
9	Abney level	1	2,500
10	Lynx Autolevel	12	1,61,700
11	Ranging rods 2m	10	400
12	Ranging rods 3m	10	500
13	Ranging rods 2m	60	466
14	Total station	1	2,92,000
15	Total Station	1	3,54,000
16	Measuring tapes 15m	10	200
17	Measuring Tapes 30m	10	300

18	Measuring chains	3	1,251
19	Measuring tapes	5	481
20	Levelling Staff	10	1,200
21	Line ranger	1	1,058
22	Offset rods 3m	10	700
23	Plane tables with wooden stand	6	4,400
24	Optical Square	2	4,400
25	Prism Square	2	500
26	Plane table	6	6,256
27	Prismatic Compass	6	1,732
28	Pritograph	1	3,368
29	Planimeter	1	1,540
30	Theodolite	4	15,000
31	Dumpy levels	2	6,200
32	Dumpy levels	10	6,737
33	Theodolite	2	17,850
34	Handheld GPS	2	11,720
35	Theodolite	2	19,000

Name of the Laboratory	Carpet area (sq.m)
Geomatics Laboratory	72



## **DEPARTMENT OF CIVIL ENGINEERING**

### **CONCRETE TECHNOLOGY LABORATORY**

#### LIST OF EQUIPMENTS WITH COST AND AREA

<b>SNO.</b>	<b>NAME OF THE EQUIPMENT</b>	<b>Quantity</b>	<b>COST for Each(in Rupees)</b>
1	Compression testing machine	1	2,39,292
2	Vibration Machine	1	52,115
3	Pycnometer	10	635
4	Vicat's Apparatus	5	3,657
5	GI containers 30cmx10cm	10	700
6	Slump cone	3	3,306
7	Mould Cast Iron	1	1,600
8	GI sheet	2	5,200
9	Mould Steel	14	909
10	Vibrating Table	1	65,016
11	Sieves (Brass)	15	1,050
12	Sieves (GI)	12	1100
13	SS Trowels	10	5,500
14	Porcelain Dishes (250ml)	6	800
15	Specific Gravity Bottles (50ml)	5	650
16	PU Hose Pipe (10 X 6.5 mm )	1	1,550
17	Platform Trolley with Pushing Handle	1	6,350
18	Platform Trolley with Pushing Handle with 4 wheels	1	13,500
19	Brass ball valve 2mt hose pipe	1	1,250

20	Density Bottle for Bitumen	1	750
21	Compaction Factor apparatus	1	25,606
22	Consistometer	1	54,649
23	100kN Flexural Testing Machine	1	1,57,998
24	Accelerating Curing Tank	1	1,31,018
25	Permeability apparatus	1	64,853
26	Compressor for permeability apparatus	1	1,92,238
27	Rebound Hammer	1	31,068
28	Longitudinal Compressometer	1	22,804
29	Lateral Extensiometer	1	19,978
30	Capping Set	1	8,420
31	Pan Mixer	1	4,84,531
32	Beam Mould	21	6,200
33	Cylindrical mould	21	6,000
34	Cube Moulds	25	1916
35	Electronic Weighing Balance 50kg	2	19,200
36	Electronic Weighing Balance 10kg	1	21,240
37	Hot air oven upto 500°C	1	2,18,749
38	Digital Weighing Balance 2kg	1	4,300
39	Digital Weighing Balance 20kg	1	3,950
40	Le Chatlier mould	1	2,336

Name of the Laboratory	Carpet area (sq.m)
Concrete technology Laboratory	72



## **DEPARTMENT OF CIVIL ENGINEERING**

### **STRENGTH OF MATERIALS LABORATORY**

#### LIST OF EQUIPMENTS WITH COST AND AREA

<b>SNO.</b>	<b>NAME OF THE EQUIPMENT</b>	<b>QUANTITY</b>	<b>COST for Each (in Rupees)</b>
1	Universal testing machine	1	4,75,000
2	Torsion testing machine	1	1,10,000
3	Hardness Test equipment	1	85,000
4	Spring Testing Machine	1	90,000
5	Impact Testing Machine	1	1,10,000
6	Hydraulic compression testing machine	1	50,400
7	Dial Gauge	3	1,650
8	PVC measuring jars ( 500 ml)	3	150
9	GI tray	3	400
10	Wash bottle	3	300
11	Trowels	3	600
12	Vernier Callipers	1	
13	Digital Weighing scale (2kg)	1	3,900
14	Digital Weighing scale (10kg)	1	4,500

Name of the Laboratory	Carpet area (sq.m)
Strength of Materials Laboratory	100

## **TRANSPORTATION ENGINEERING LABORATORY**

### LIST OF EQUIPMENTS WITH COST AND AREA

<b>SNO.</b>	<b>NAME OF THE EQUIPMENT</b>	<b>QUANTITY</b>	<b>COST for Each (in Rupees)</b>
1	Thickness gauge	1	2,768
2	Length gauge	1	2,637
3	Los Angeles Abrasion testing machine	1	1,10,648
4	Universal Penetrometer	1	26,662
5	Bitumen Penetration kit	1	1,057
6	Penetrometer cone	1	1,206
7	Sieves GI frames	6	584
8	Electronic balance (10Kg)	1	17,194
9	Cylindrical Metal measures	1	11,004
10	Crushing aggregate value apparatus	1	15,720
11	Ring and ball apparatus	1	14,109
12	Thermometer	4	322
13	Ductility testing machine	1	74,033
14	Flash point and Fire point Pensky Martens apparatus	1	16,152
15	Aggregate impact testing machine	1	17,260





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16	Weighing Balance (50kg)	1	7,600
17	Hot plate Indicator	1	4,500
18	pycnometer	3	890
19	Slotted weights	6	250
20	Marshall's Apparatus	1	13,460
21	Thermostatically controlled oven	1	14,750
22	Standard Tar viscometer	1	14,533

Name of the Laboratory	Carpet area (sq.m)
Transportation Engineering Laboratory	67

## **ENVIRONMENTAL ENGINEERING LABORATORY**

### LIST OF EQUIPMENTS WITH COST AND AREA

<b>SNO.</b>	<b>NAME OF THE EQUIPMENT</b>	<b>QUANTITY</b>	<b>COST for Each (in Rupees)</b>
1	Digital ph meter	2	17,000
2	Digital ph meter	1	10,170
3	COD apparatus	1	28,429
4	Conductivity meter	1	12,190
5	Conductivity meter	1	20,000
6	Nephelo turbidity meter digital	1	18,857
7	Nephelo turbidity meter digital	1	95000
8	Jar test apparatus	1	23,619
9	Hot plate	1	7,048
10	Chloroscope100 ml	1	1,190
11	Chloroscope200 ml	1	2,048
12	Distillation apparatus	1	1,286
13	Imhoff cone	1	3,095
14	Hot air oven	1	18,095
15	Weighing balance digital	1	24,762
16	Burettes 50ml	20	630



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17	Pippet	20	220
18	Conical flask 250ml	30	425
19	Conical flask 100ml	10	340
20	Measuring cylinder 500ml	2	1,470
21	Measuring cylinder 100ml	20	850
22	Measuring cylinder 50ml	5	550
23	Storage bottle	10	1650
24	Volumetric flasks 1000ml	5	1650
25	Volumetric flasks 500ml	10	1210
26	Volumetric flasks 250ml	30	975
27	Volumetric flasks 100ml	5	510
28	Burette Stands	20	450
29	Beakers (1000 ml)	10	1,250
30	Beakers (500 ml)	10	550
31	Beakers (250 ml)	30	260
32	Beakers (100 ml)	30	230
33	Dessicator	1	2,850
34	Pipette stands	5	280
35	Test tubes	20	8
36	Reagent bottles	5	525
37	Nessles cylinders	6	320
38	BOD bottles	6	750

39	Spectro photometer	1	43,160
40	Cooling incubator	1	86,645

Name of the Laboratory	Carpet area (sq.m)
Environmental engineering Laboratory	67



## **DEPARTMENT OF CIVIL ENGINEERING**

### **FLUID MECHANICS LABORATORY**

#### LIST OF EQUIPMENTS WITH COST AND AREA

<b>SNO.</b>	<b>NAME OF THE EQUIPMENT</b>	<b>QUANTITY</b>	<b>COST for Each (in Rupees)</b>
1	Bernoulli's apparatus	1	60,000
2	Combined Venturimeter and orifice	1	60,000
3	Apparatus for determination of coefficient of discharge through orifice and moutupiece	1	67,000
4	Apparatus for determination of discharge through rectangular and triangular notches	1	66,000
5	Single stage centrifugal pump	1	83,204
6	Pipe friction apparatus	1	76,832
7	Pelton wheel turbine	1	2,10,439
8	Reciprocating pump	1	94,668
9	Impact of jet vanes apparatus	1	68,521
10	Digital stop watch	8	800
11	Piezometer	4	600
12	P.P.Balve valve 1"	1	290
13	P.P.Balve valve 1 $\frac{1}{2}$ "	1	350
14	Vernier calipers (6")	1	650
15	Nylon tube pipes 6 mm	10m	350
16	Tube pipes ( 5 mm)	40m	1,800
17	½ " pipe	2m	900

18	Slotted weights (500g)	5	1,125
19	Francis Turbine	1	4,87,020
20	Kaplan Turbine	1	5,02,712
21	Free and forced vertices	1	98,099
22	Nozzle meter	1	85,394
23	Weir apparatus	1	88,099
24	Reynold's number apparatus	1	66,074
25	Metacentric height and buoyancy apparatus	1	49,282
26	P.U.Hose pipe bundle	1	1,550
27	Pressure Gauge	2	2,500
28	Foot valve	1	500
29	Vaccum gauge	3	450
30	Glass tube	1	2,750
31	Speed indicator	1	3,200
32	Speed indicator digital	1	2,000
33	Sensor	1	4,000
34	Speed controller Rally box	1	2,000
35	Forced vortex setup	1	30,225

Name of the Laboratory	Carpet area (sq.m)
Fluid Mechanics Laboratory	123.62



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## DEPARTMENT OF CIVIL ENGINEERING

### BUILDING MATERIALS LABORATORY

#### LIST OF EQUIPMENTS WITH COST AND AREA

SNO.	NAME OF THE EQUIPMENT	QUANTITY	COST (in Rupees)
1.	Tile abrasion testing machine as per IS 1237	1	70,378
2.	Hex G6 wet film thickness gauge 25-3000mic, 36 teeth	1	7,434
3.	Digital coating thickness gauge Ferrous, 2000 $\mu$	1	23,098
4.	Pull gauge pencil type coating thickness gauge	1	3,186
5.	Vernier Calipers 6"/150mm	1	669

Name of the Laboratory	Carpet area (sq.m)
Building Materials Laboratory	72







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### ENGINEERING GEOLOGY LABORATORY

#### LIST OF EQUIPMENTS WITH COST AND AREA

SNO	NAME OF THE EQUIPMENT	QUANTITY	COST for each (in Rupees)
1	Model showing Dip, Strike and escarpment in inclined strata	1	5,500
2	Model showing True and Apparent dip in inclined strata	1	5,500
3	Symmetrical Anticline/Syncline	1	5,500
4	Asymmetrical Anticline/Syncline	1	5,500
5	Isoclinal Anticline/Syncline	1	5,500
6	Fan fold	1	5,500
7	Model of Normal Fault	1	5,500
8	Model of Reverse Fault	1	5,500
9	Strike Fault in Inclined beds	1	5,500
10	Dip Fault in Inclined beds	1	5,500
11	Tunnel in horizontal beds	1	5,500
12	Tunnel in inclined beds along with strike	1	5,500
13	Brunton Compass with Aluminium Tripod	1	5,000
14	Clinometer compass	1	1,500
15	Rocks and Minerals	19	1,100

Name of the Laboratory	Carpet area (sq.m)
Engineering Geology Laboratory	100

