

CHIRANG POLYTECHNIC
1.LIST OF CIVIL ENGINEERING DEPARTMENT

A.Equipment in Surveying Laboratory - 2021

Sl. No	Name of The Equipment	Quantity	Total Cost in Rs.	Remarks
1	Prismatic Compass	5	18101.20	
2	Ranging Rod Telescope (2m & 3m)	20	12272.00	
3	Measuring Taps	20	15092.20	
4	Planimeter	10	38043.20	
5	Digital Planimeter	5	359900.00	
6	Chains	20	32827.60	
7	Levelling staff	10	29452.80	
8	Dumpy level	10	122130.00	
9	Automatic level along with a accessories	5	107380.00	
10	Plane Table	5	47860.80	
11	Alidate	10	71177.60	
12	Accessories: Plumb Bob, U-Fork etc.	10	17794.40	
13	Transit Venires Theodolite	5	159005.00	
14	Electronic Theodolite	1	88972.00	
15	Electronic Total Station	1	362024.00	
16	Garmin GPS	1	48474.40	

B.Equipment in Geotechnical Laboratory – 2021

Sl No	Name of The Equipment	Quantity	Total Cost in Rs.	Remarks
1	Pycnometer	5	6077.00	
2	Density Bottle	15	12708.60	
3	Water Still 4 Liter/Hour	1	53996.80	
4	Liquid Limit Device	1	9572.16	
5	Plastic Limit Apparatus	1	6504.16	
6	Shrinkage Limit Apparatus	1	6810.96	
7	Glass Thermometer 0-150 ⁰ C	1	1043.12	
8	Electronic Balance 6 Kg	1	7608.64	
9	Spatula (150 mm and 290 mm Blade)	2	2208.96	
10	Core Cutter	1	7301.84	
11	Universal Triaxial cell	1	135700.00	
12	Compression Testing Machine	1	515424.00	
13	Direct Shear Apparatus	1	194700.00	
14	Universal Permeameter	1	190216.00	
15	Variable Flow Type Air Permeability Apparatus	1	11658.40	
16	Density Basket	5	30373.20	
17	Gauging Trowel	20	22821.20	
18	Trowel	20	22585.20	
19	Steel Bowl	20	11044.80	
20	Plastic Tray	10	8094.80	
21	Plastic Measuring Jar (10,25,50,100,1000 ml)	50	20743.60	
22	Density Bottle	10	9817.60	
23	Hot Plate	1	13499.20	
24	Steel Vessel 250 mm dia	10	15835.60	
25	Compaction Factor Apparatus	1	45283.68	
26	Academic Software Bundle	1	1214810.00	
27	Ultrasonic Thickness Gage	1	711776.00	
28	Compaction Test Apparatus - Light Compaction	1	4908.80	
29	Compaction Test Apparatus - Heavy Compaction	1	5399.68	
30	Pycnometer	10	12154.00	
31	Proctor test apparatus	1	23010.00	
32	Liquid limit apparatus	20	191443.20	
33	Darcy's test apparatus	1	112100.00	
34	Rapid Moisture meter	5	73750	
35	Glass Thermometer 0-150 ⁰ C	5	10590.50	
36	Electronic Balance capacity 600 gm	1	11331.54	
37	Hot Air Oven	1	30904.20	

C.Equipment in Material and Testing Laboratory - 2021

Sl No	Name of The Equipement	Quantity	Total Cost in Rs.	Remarks
1	Aggregate Impact Tester	1	26998.40	
2	Vicat Apparatus	5	31907.20	
3	Sieve Shaker- motorised	2	162604.00	
4	Thermometer	5	27612.00	
5	Mechanical Shaker	1	26550.00	
6	Mechanical Sieve Shaker	1	68109.60	
7	ISI Sieve Set, 425 μ	1	1711.00	
8	Cement Autoclave	1	269984.00	
9	Le-Chatelier Flask 1000 ml	5	31907.20	
10	Le-Chatelier Mould	10	14112.80	
11	Le-Chatelier Water Bottle	1	32520.80	
12	Sand Pouring Cylinder Apparatus	1	9204.00	
13	Sand Pouring Cylinder Apparatus	1	12885.60	
14	Sieve GIF Frame	16	32398.08	
15	Standard Test Sieves (200 mm Dia)	10	14112.80	
16	Standard Test Sieves (300 mm Dia)	11	50622.00	
17	Sieves 200 mm Dia ((4.75 mm, 2.36 mm, 1.18 mm, 600 μ m, 300 μ m, 150 μ m, 75 μ m)	35	53690.00	
18	Lid and Pan	5	7670.00	
19	Sieves 200 mm Dia	3	4602.00	
20	Sand Pouring Cylinder	1	11903.84	
21	Cube mould (70.6 mm)	30	64428.00	
22	Cube Mould (150 mm)	3	11781.12	
23	Cube Mould 100 mm	4	13008.32	
24	Cylindrical Mould 150 mm x 300 mm	4	27243.84	
25	Beam Mould (150 mm x 150 mm x 700 mm)	2	26752.96	
26	Beam Mould (100 mm x 100 mm x 500 mm)	2	23316.80	
27	Moisture Cup	30	6619.80	
28	Brineell Cum Rockwell Hardness Tester	1	147264.00	
29	Electronic Universal Testing Machine	1	1558544.00	
30	Mild Steel, Zinc Plated Moulded (150 mm ID x 175 mm)	1	6074.64	
31	Mild Steel, Zinc Plated Perforated Base Plate for MS Mould	1	2699.84	
32	Mild Steel Zinc Plated Extension Coller (150 mm ID x 50 mm high)	1	2174.60	

D. Equipment in Transportation Laboratory – 2021

Sl No	Name of The Equipement	Quantity	Total Cost in Rs.	Remarks
1	Los Angeles Abrasion Testing Machine	1	129800.00	
2	Universal Penetrometer	1	58292.00	
3	Ductility Testing Machine	1	161990.40	
4	Flash Point Pinsky-Martens Apparatus	1	77927.20	
5	Standard Tar Viscometer	1	63814.40	
6	Impact Testing Machine	1	276120.00	
7	Laboratory California Bearing Ratio Test Apparatus	1	282256.00	
8	Sieve Shaker- motorised	1	68109.60	
9	Aggregate Impact Test Apparatus	1	30066.40	

E. Equipment in Environment Laboratory – 2021

SI No	Name of The Equipement	Quantity	Total Cost in Rs.	Remarks
1	Digital PH Meter	3	24780.00	
2	Flame Photo Meter	1	38940.00	
3	Colorimeter	2	18408.00	
4	Wall Hanging Distillation Apparatus	1	53996.80	
5	Distillation Apparatus (Nitrogen Estimation)	1	76700.00	
6	Weally Grinder for Sample Grinding	1	112100.00	
7	Kjeldhal Apparatus	1	53100.00	
8	Burette & Pipette Stand, Beaker, Conical Flask, Test Tube	1	5310.00	

F.Equipment in Hydraulics Laboratory – 2021

SI No	Name of The Equipement	Quantity	Total Cost in Rs.	Remarks
1	Hydraulic Bench	1	227032.00	
2	Impact of Jet	1	65655.20	
3	Flow Measurement	1	118424.80	
4	Losses due to Friction in Pipe Lines	1	98176.00	
5	Losses due to Pipe Fittings etc.	1	100630.40	
6	Bernaullis'sTheoram	1	95721.60	
7	Reynold's Apparatus	1	68723.20	
8	Discharge over Notches	1	95721.60	
8	Hydraulic Extruder	1	244850.00	