

Name of the Equipment	Quantity (nos.)	Capacity	Purpose	Location	Prof. Incharge for the equip
Triaxial Shear Apparatus(Mechanical)	7	50kN, Triaxial cell for 38x76mm soil samples.	Testing of soil sample in triaxial	Geotechnical Engg Lab	Prof. Ashish Juneja
Triaxial Shear Apparatus . Table top model.	2	50kN, Triaxial cell for 38x76mm soil samples.	Testing of soil sample in triaxial		
Large Direct Shear Apparatus	1	50kN, Sample Size 30cm x 30cm	Testing of soil sample in direct shear		
Direct Shear Apparatus(Mechanical)	4	5kN, Sample Size 6cm x 6cm	Testing of soil sample in direct shear		
Direct Shear Apparatus(Mechanical)	1	5kN, Sample Size 10cm x 10cm	Testing of soil sample in direct shear		
Automatic Direct Shear Apparatus	3	5kN, Sample Size 6cm x 6cm	Testing of soil sample in direct shear		
Automatic Direct Shear Apparatus (Pnumatic)	2	5kN, Sample Size 6cm x 6cm	Testing of soil sample in direct shear		
Automatic Compactor	4	Number of blows can be selected from 25 to 56	Compaction of CBR and proctor moulds		
Reletive density Apparatus	1	Vibratory	E. max and E. min of sand / Granular soil samples		
Rock testing Apparatus	1	50 t Compression testing Machine	UCS of rock cores		
Point load testing Apparatus	1	25 kN	Testing of Point load index of rock cores		
Rock Triaxial testing Apparatus	1	2000kN Compression testing Machine	UCS and Triaxial test on rock cores		
Hydraulic Sample Extruder	5	20kN Extractor	Extract soil samples from UDS tubes		
Vibratory Sieve Shaker	3	8-12 inch sieve stack	Sieve analysis		
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Automatic Vane Shear Apparatus	6	Rotation speed 0.1-1000 ^o /min and 3Nm torque	Measure maximum shear strength of soft soil		
Vane Shear Apparatus	3	Manual torque application up to 0.3kg/sqcm	Measure maximum shear strength of soft soil		
Torvane Apparatus	1	1kg/Sqcm	Measure maximum shear strength of soft soil		
Tinius Oslen UTM(100kN)	1	10Tons	Tensile testing of geosynthetic materials and Testing of soil		
Oven	6	Up to 120°C	Drying of soil and rock samples		
Big Oven	2	Up to 300°C	Drying of soil and rock samples		
Consolidation Apparatus(Old)	6	Odeometer Loading capacity upto 10kpa - 800kpa	Consolidation properties of soils		
Consolidation Apparatus(old) with digital indicator	6	Odeometer Loading capacity upto 10kpa - 800kpa	Consolidation properties of soils		
Hieco Consolidation Apparatus(New)	12	Odeometer Loading capacity upto 10kpa - 800kpa	Consolidation properties of soils		
Consolidation Apparatus(old)	5	Odeometer Loading capacity upto 10kpa - 800kpa	Consolidation properties of soils		
Permittivity Apparatus	1	Loading capacity upto 10kpa - 800kpa	Radial in plane flow of geosynthetic material		
Permability Apparatus	6	Falling head (100cm)	Measure permability of soil samples		
Electronic Balance	4	20kg	Measure fine weights of rock samples and soilsamples		
Electronic Balance 300-500gms	4	300-500gms	Measure fine weights of rock samples and soilsamples		