

## CIVIL ENGINEERING LAB EQUIPMENTS

[1] **CIVIL ENGG. LAB/CONSTRUCTION PR. LAB**

SL. NO.	NAME OF ITEM	REMARKS
01	Trowel	
02	Spatula	
03	Gunia	
04	Spirit Level	
05	Standard Cube Moulds (a) For Cement Testing (b) For concrete Testing	
06	Electronic Balance (a) 500 gm (b) 5 ng	
07	Vicat Apparatus Test device with all accessories	
08	Le chatelier's Test device with all accessories	
09	Briquette testing device machine with mould	
10	slup test device	
11	Compression testing machine (a) 1000 KN (b) 500 KN (c) 100 KN	
12	I.S. sieve set: I.S. Sieves 100 mm, 63 mm, 10 mm, 4.75 mm, 2mm, 1mm, 600u, 425u, 300u, 212u, 150u 75u sieves	
13	Elongation Gauge	
14	Flakiness Gauge	
15	Pensky Martens closed cup apparatus	
16	Ring and Ball apparatus	
17	Los angeles Test device	
18	Penetrometer Test set up	
19	Concrete Mixer Machine	
20	Vibrator Mechine (a) Needle Type (b) Tray Type	

[2] **FIELD SURVEY PRACTICE LAB**

<b>SL. NO.</b>	<b>NAME OF ITEM</b>	<b>REMARKS</b>
01	Metric Chain (a) 20m (b) 30m	
02	Metallic Tape (a) 30m (b) 15m	
03	Steel Tape - 30m	
04	Ranging Rods - 2m & 3m	
05	Offset Rod - 3m & 4m	
06	Optical Square	
07	Prism Square	
08	Line Ranger	
09	Prismatic compass with tripod stand	
10	Plumb- bob (brass)	
11	Clinometer	
12	Plane table with tripod stand	
13	U-fork	
14	Trough Compass	
15	alidade with scale (Brass)/Electronic Alidade	
16	Sprit level	
17	Dumpy level with tripod stand	
18	Auto Level	
19	Levelling Staff	
20	Transit Theodolite	
21	Electronic Theodolite	
22	Total Station with all Accessories	
23	Tacheometer	
24	Planimeter	

[3] SOIL MECHANICS LAB

SL. NO.	NAME OF ITEM	REMARKS
01	Thermostatically controlled Oven	
02	Electronic Balances of Capacity (a) 5 kg (b) 10kg with (a) 5 mg accuracy (b) 1 mg accuracy	
03	Density bottles (a) 100 ml, (b) 50ml	
04	Pycnometer (a) 250ml, (b) 500ml, (c) 1000 ml	
05	I.s. Sieves 100mm, 63mm, 10mm, 4.75mm, 2mm, 1mm, 600u, 425u, 300u, 212u, 150u, 75u size	
06	Sieve Shaker machine (a) 0.25 HP (b) 0.50 HP	
07	Hydrometer	
08	Casagrande device with all accessories	
09	Jodhpur Permeameter (a) Constant Head type (b) Falling Head type	
10	Proctor compaction test apparatus with all accessories	
11	Modified compaction test apparatus with all accessories	
12	Band bath device with (a) tray, (b) stove, (c) pallette knife	
13	Non corrodible Air-tight containers or cans	
14	Cylindrical core-cutter with dolly	
15	(a) Shrinkage dish (b) Evaporating dish (c) glass cup (d) glass plate plain and with three metal prongs (e) spatula (f) Straight edge (g) Wish bottle	
16	(a) Stop watch, (b) Metre Scale, (c) Beaker	
17	Mixing pan or tray	

**[4] ENVIRONMENTAL ENGINEERING LAB**

<b>SL. NO.</b>	<b>NAME OF ITEM</b>	<b>REMARKS</b>
01	pH meter	
02	Turbidimeter	
03	Nestler tube	
04	Water testing kit	
05	Thermostatically controlled oven	
06	Thermometer	
07	Electronic balance	
08	Incubator	
09	Jar	
10	Test tube	
11	BOD test device	
12	Digital Air Volume device	
13	Chloroscope	
14	Porcelain dish	
15	Measuring cylinder	
16	Beaker	
17	Filter paper	
18	Funnel	
19	Conical Flask	
20	Burette	
21	White tile	
22	Pipette	
23	Laboratory Flocculator complete with stirring device	

[5] **HYDRAULICS LAB(THE SAME TO BE USED FOR MECHANICAL ENGG.)**

SL. NO.	NAME OF ITEM	REMARKS
01	Piezometer	
02	Bourdon Tube Pressure Gauge	
03	Venturimeter	
04	Bernoulli's Apparatus with all accessories	
05	Manometer	
06	Pitot tube	
07	Metacentric Height Apparatus with slotted weight and tank	
08	Pipe friction apparatus with all accessories	
09	Stop watch	
10	Hydraulic bench with all accessories	
11	Notches with tank (5'x3'x1') (a) Rectangular (b) Triangular (i) 30° (ii) 45° (c) Trapezoidal	
12	Reynold's apparatus	
13	Turbines (a) Pelton wheel (b) Francis	
14	Pumps (a) Single Acting pump (b) Reciprocating pump	

[6] **CADD LAB**

SL. NO.	NAME OF ITEM	REMARKS
01	Personal Computer with all Accessories	
02	Printer	
03	Operating System S/W	
04	Drawing S/W - Auto CADD, 3D Home, Home plan	
05	UPS- 1KVA online (Power backup min. 1/2 Hrs.)	