



DEPARTMENT OF CIVIL ENGINEERING

MVGR College of Engineering (Autonomous)

Approved by AICTE, New Delhi, and Permanently Affiliated to JNTUGV, Vizianagaram
Accredited by NBA (Tier-1), and NAAC, Listed U/S 2(f) & 12(B) of the UGC Act 1956
VIJAYARAM NAGAR CAMPUS, VIZIANAGARAM-535 005



LABORATORY INFRASTRUCTURE

SURVEYING LABORATORY



Figure 1 PENTAX DGPS



Figure 2 SOKKIA Total Stations



Figure 3 LEICA Auto Levels



Figure 4 Vernier Theodolites



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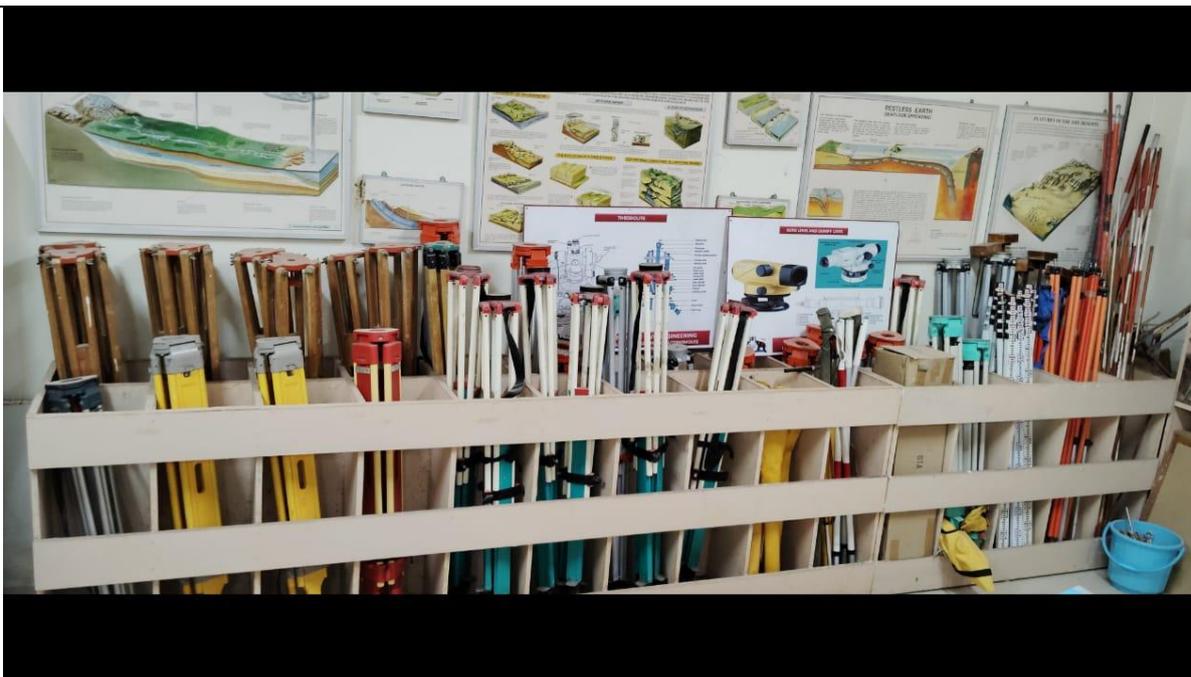
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Figure 5 Prismatic Compass



Figure 6 Handheld GPS



SL. NO.	NAME OF THE EQUIPMENT	QUANTITY
1	MEASURING CHAINS	8
2	RANGING RODS-2m, 3m	20
4	PRISMATIC COMPASS-100mm	8
5	CROSS STAFF	8

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7	DUMPY LEVEL	4
8	ALUMINIUM TRIPODS(DUMPY)	4
9	PENTAX AUTO LEVEL	4
10	ALUMINIUM TRIPODS(PENTAX)	4
11	LEVELLING STAFF	8
12	MEASURING TAPES 30mts	10
14	MAGNETIC TROUGH COMPASS	1
15	BOX SECTANT	1
16	PLANIMETER	1
17	PENTAGRAPH	1
18	GHAT TRACER	1
19	ABNEY LEVEL	1
21	OPTICAL SQUARE	1
22	PRISM SQUARE	1
23	LINE RANGER	1
24	TRENCH CURVE SET	1
25	HAND LEVEL	1
26	SURVEYOR COMPASS	1
27	OCTAGONAL CROSS STAFF	1
28	CLINOMETER TANGENT	1
29	POCKET COMPASS	1
30	MAGELLAN COMPASS TRITON 300 HAND HELD GPS	1
31	V.T.20 AIE VERNIER TRANSIT THEODLITE	8
32	SOKKIA ELECTRONIC TOTAL STATION	3

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MATERIAL TESTING LABORATORY



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SL. NO.	NAME OF THE EQUIPMENT	QUANTITY
1	Rebound Hammer	1
2	Ultra Sonic Testing Instrument	1
4	Crushing value Apparatus	1
5	Aggregate Impact Tester	1

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7	Density basket	1
8	Spring balance, 10 kg capacity	1
9	Penetrometer Cone	1
10	Ductility Testing Machine	1
11	Ring and Ball Apparatus	1
12	Air permeability Apparatus	2
14	Vicat Apparatus	6
15	Lateral Extensometer	1
16	Slump test Apparatus	3
17	Compaction Factor Apparatus	1
18	AIMIL Consistometer	1
19	Vibrating Table	1
21	Cast Iron Moulds for 150mm cubes	18
22	Steel mould for 70.6 mm cubes	9
23	Tamping bar, steel 25mm x 25 mm	1
24	Centrifuge Extractor	1
25	Los Angeles Abrasion Testing Machine	1
26	Compression Testing Machine, 3000kN Capacity	1
27	Universal Penetrometer	1
28	Bitumen Penetration Kit	1
29	Longitudinal Compressometer	1
30	Hydraulic Jack 500 kN capacity	1
31	Thickness Gauge	2
32	Length Gauge	2
33	Cast Iron Mould for 100 mm cube	9

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34	Cylindrical Mould 150 mm dia x 300 mm high	9
35	Beam Mould for 150 mm x 150 mm x 700 mm specimen	6
36	Immersion type needle vibrator, Electrically operated	1
37	Demountable Mechanical Strain Gauge	1
38	Beam Mould for 100 x 100 x 500 mm specimens	6
39	Pensky-Martens Closed Cup Apparatus	1
40	GI Test Sieves 450 mm dia (80, 75,63,53,50,45,40,37.5,31.5,26.5,25,22.4,20, 19,16,14,13.2,12.5,11.2,10,9.5,8.6,8,6.7,6.3,6.5,4.75 mm)	28
41	Lid and Pan - 450 mm dia	1
42	Hand Operated Sieve Shaker	1
43	Accelerated Curing Tank	1
44	Pan type Concrete mixer (56 lit capacity)	1
45	Flexure Testing Machine	1
46	Brass test Sieves 200mm dia, 90 microns	1
47	Brass test Sieves 200mm dia, 4.75 mm, 2.36 mm & 1.7 mm	3
48	Lee Chatlier Mould	4
49	Electronic Weighing Balance (200 kg capacity)	1
50	Sorological water bath	1
51	Deval's Abrasion Testing Machine with 12 steel balls and counter	1



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SOIL MECHANICS LABORATORY





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SL. NO.	NAME OF THE EQUIPMENT	QUANTITY
1	Shrinkage limit set	1
2	Consolidation apparatus	1
3	Direct shear test	1
4	Sensitive volume change gauge	1
5	CBR TEST	1
6	Liquid limit apparatus (hand operated)	1
7	core cutter	1
8	Sieves	1
9	sieve shaker motorised with digital timer	1
10	Hydrometer range 0.995 to 1.03g/ml	1
11	High Speed Stirrer	1
12	Permeability Apparatus	1
13	Compaction Test Apparatus	1
14	Swell Test Apparatus	1
15	Standard Penetration Test	1
16	Speedy Moisture Meter	1
17	Triaxial Test	1
18	Liquid Limit Apparatus	1
19	Cone Penetrometer	1
22	Unconfined Compression Test	1
21	CBR assembly	1
22	Permeability apparatus	1



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SIR ARTHUR COTTON LAB



SL. NO.	NAME OF THE EQUIPMENT	QUANTITY
1	DESKTOPS <i>Intel i3-10100F PROCESSOR</i> <i>GIGABYTE H6 10 MS2 MOTHER BOARD</i> <i>DDR-IV 8GB RAM</i> <i>AARVEX 512GB SATA SOLID STATE DRIVE</i> <i>LAPCARE LM195dh Monitor</i> <i>DELL USB KEYBOARD (KB 216)</i> <i>DELL USB MOUSE-(MS116)</i> <i>AARVEX GT610 DDR-3 2GB GRAPHIC CARD</i> <i>ENTER ATX CABINET</i>	36

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2	DESKTOPS HP280G1 Desktop Pc-37V62AV Core i3-4th GEN 500GB HDD/4GB RAM/ USB Standard Keyboard, Optical Mouse. HP 18.5 inch LED Monitor Gqw86A ASUS 2GB Graphic Card	4
3	SERVER HP280G1 Desktop Pc-37V62AV Core i3-4th GEN 500GB HDD/ 4GB RAM/ USB Standard Keyboard and Optical Mouse. HP 18.5 inch LED Monitor Gqw86A ASUS 2GB Graphic Card	1
4	LCD PROJECTOR EPSON EB-01 LCD Projector S.No. X88Z3694998 HDMI Cable 10mts PowerCable 10mts Projector Ceiling Mount	1
5	PRINTER HP 1020 PLUS LASER PRINTER S.NO:CNCH819707	1
6	UPS AND BATTERIES Emerson Liebert GXT-MT+CX 3KVA Long Backup Online UPS with Serial Numbers: 1)8332L2306500557 and 2) 8332L2306500567 UPS Batteries 12V SMF 26AH Quanta APC 1.1KVA Line Interactive UPS S. No. 821919007895	
7	Blue Star Air Conditioner Units 2.0 TR T32 5 STR DL CU INVSAC with S.No. 1)BO-IA324VNUCVA00669 2)BO-IA324VNUCVA00672 3)BO-IA324VNUCVA00674 4)BO-IA324VNUCVA00637	1
8	NETWORKING	2
	D-Link DGS 1024c 24 Port Gigabit Switch	
	4U Network Racks(D-Link)	3
	I/O BOXES	42
	Cat6 Utp Cable 305 Mts(D-Link)	3
	PATCH CORDS (1mts)	45
PATCH CORDS (2mts)	40	
24 Port D-Link JACK PANELS	2	
9	White Screen + Tripod Stand	1

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10	Modular Workstation Furniture	10
11	Faculty Computer Tables	2
12	Faculty Chairs	4