

Adequate and well equipped laboratories and technical manpower

Table 5.7.3.1.1

Sr. No.	Name of the Laboratory	Name of the Important equipment	Technical Manpower support		
			Name of the technical staff	Designation	Qualification
1.	Concrete Technology & Transportation Engg. Lab	 Automatic Compression Testing Machine: Windows Based, Capacity 3000kN. Cement Auto Clave: Analog with pressure gauge & digital temperature controller. Los Angeles Abrasion Testing Machine with Counter Laboratory California Bearing Ratio Test Apparatus: Motorized, 3 Speed with mild steel mould. Concrete Mixer Pan Type: Capacity 40L Vibration Machine with built in digital timer NABL Calibrated Digital Marshall Apparatus: 50KN Single speed new model for 4" dia sample inclusive of 3 moulds. Universal Penetrometer with Timer Ductility Testing Machine with digital temperature indicator Concrete Permeability Apparatus: 3 Cell model 150mm cube Compaction Factor Apparatus AIMIL Consistometer Flexure Test Attachment Apparatus: 100KN capacity with Software. Electronic Weighing Balance: DS-852 Capacity30Kg. Vibrating Table: 75X75cm for 6 moulds of 150mm cube 	Mr. Sreevatsa	Instructor	Diploma



2.	Geotechnical Engg. Lab	 Direct Shear Apparatus: Motorized 12 Speed Supplied complete with proving ring & 2nos of dial gauge of 0.01X25mm with Electric Kit HS 25.515.1 Unconfined Compression Test Apparatus: HS 22.15 (Motorized Supplied complete with proving ring dial gauge). Universal Combination Permeability meter Electronic Balance 100Kg Capacity 10gm reliability, Platform Size 450X550mm HOS Lab Electric Oven with Digital Indicator 450X450X450Mm Coarse Sieve Shaker & Fine Sieve Shaker: Motorized Liquid Limit Cone Penetrometer: Automatic digital new model Electronic Triaxial Test Apparatus: Load frame motorized 50KN Triaxial Cell Compensating Pressure Apparatus (Oil & Water Type) Pressure gauge 50-1000 KPa HS 28.585 Electronic kit for triaxial test instrument consisting of 3 channel digital indicator 10KN. Bench Type Consolidometer Hydraulic Extruder: Sample eject 5000 Hydraulic Sample Extruder Electrical cum Hand operator 	Mr. Kantharaju M J	Instructor	Diploma
3.	Materials testing Lab	 Sieve Shaker Motorized with built in digital timer Sieves GI frame of 30cm dia Electric Weighing Balance AIM -046 Pycnometer Electric Oven with digital indicator Density Basket measure 20 liters with steel tamping rod 16mm dia, 600mm length. UTM 600 kN Impact Testing Machine 32 Joules Torsion Testing Machine 10 Kg-m Hardness Testing Machine: Indentation Hardness 	Mrs. Roopavathi V	Assistant Foreman	Diploma (B.E)



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4.	Survey Practice Lab	 Pentax Total Station: Model W825NX Two batteries One charger One wooden stand Instruction manual CD containing software LYNX Digital Planimeter Vernier Theodolite: Model SVT supplied least count 20 sec with aluminum stand Dumpy Level: Model DL-9 supplied with aluminum stand Auto Level: Model LAL-6 supplied with aluminum stand LYNX Prismatic Compass: 4" dia LYNX Surveyor's Compass with stand LYNX Ceylon Ghat Tracer LYNX Plane Table with Accessories 	Mr. Kantharaju M J	Instructor	Diploma
5	Environmental Engg. Lab	 PC Based UV-VAS Spectro Photometer Water Analyzer Kit (Colorimeter, D.O, Cond, TDS, PH Salanity, Temperature) Controller Based Flame Photometer with Compressor Digital Conductivity – TDS Meter with cells Digital Nephelo/ Turbiditymeter Digital pH meter with Electrode (LCD Display) Digital Calorimeter Digital Electronic Balance 220gm, Cap & 0.001 gacre BOD Incubator: 6.1 cubic feet with voltage stabilizer for indicator, volume 175 lit. Hand hold Digital Colony Counter with 6 digit LCD buzzer & markerpen Mini Rotary Shaker with 0-15min timer & speed regulator max 180rpm (Remy) Magnus Inclined Binocular Microscope Centrifuge with digital speed indicator, Safety lid lock & accessories. Refrigerator Double Door Capacity LG make 240 lit Double Water Distillation Unit Muffle Furnace: 150X150X230mm 3.3Kw with digital 	Mrs. Roopavathi V	Assistant Foreman	Diploma (B.E)



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		temperature control & thermal fuse 17. Hot Air Oven: Size 18"X18"X18" no of chambers 2nos digital temperature controller cum indicator double wall inside chamber made of stainless steel.			
6	Engg. Geology Lab	 Mineral Specimens Rock Specimens Hardness (Pen Knives) Fracture & Cleavage Sets Streak Plates Models for Engg & Mining geology Models for different forms of Igneous Rock bodies Dip, Strike, Pitch & Escarpment Models Models of Fold & Fault 	Mr. Kantharaju M J	Instructor	Diploma
7	Computer Aided Building Planning & Detailing Lab	 Lenovo Think Centre E30: Work Stations with Power cord Monitor: 19" Inch Wide Monitor CPW's Power Cables LAN Patch Cards Lenovo Think Centre M81 Model CPUs Power Cables USB standard Keyboard & Optical Mouse, 17 inch TFT Square Monitor. LAN Patch Cards Stadd-Pro Software (Licensed) Auto Plotter Software (Licensed - 10) Auto CAD - 2013 Software (Freeware) HP 1566 Printer 	Mrs. Roopavathi V	Assistant Foreman	Diploma (B.E)
8	Fluid mechanics lab	 Pipe Friction Apparatus (major losses in pipes apparatus) Impact of jet on vanes Orifice and Venturimeter (combined set up). Flow measuring devices like Nozzle and Rota meter Apparatus Flow measuring devices like V or rectangular notches 	Mr. Kantharaju M J	Instructor	Diploma



		 apparatus. Multi stage centrifugal pump test rig (2HP) Pelton turbine test Rig with mechanical loading Kaplan turbine test Rig with mechanical loading Francis turbine test Rig with mechanical loading Single Stage Centrifugal Pump Test Rig Bernoulli Apparatus Vertical Apparatus Orifice with Calibration of vertical tank Calibration of pressure gauge Calibration of ogee weir board crested weir and venturi flume with SS tank 			
9	Structural Engg. Lab	 Silver schmidt PCN Pundit lab + ultrasonic testing instrument Profometer PM-630 Shake table type 1 model isi-1 Shake table type 3 model isi-3 Ieicos signal conditioning amplifier Ieicos accelerometer model acc04 USB based data acquisition system with software isies 16 bit resolution Ieicos four storey building frame Loading frame with facilities for x and y axes Hydraulic system 	Mr. Sreevatsa	Instructor	Diploma

*NOTE: 1. Laboratories were used for Project, research & Consultancy work.













Major Equipment sample photos

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