

**CIVIL ENGINEERING DEPARTMENT, IT, G.G.V. BILASPUR (C.G.)**

**LIST OF MAJOR EQUIPMENT**

<b>S.NO.</b>	<b>MAJOR EQUIPMENT</b>	<b>Laboratory Name</b>
1.	Closed Loop Material Testing Machine for Fracture and Fatigue Test on Concrete	Material Testing and Structural Engineering
2.	Digital cum Computerized Universal Testing Machine for 1000 kN	
3.	3000kN Compression Testing Machine, Electrically Operated, Single Gauge	
4.	Multi Loading Flexure Testing Machine capacity 50kN	
5.	Ultrasonic Pulse Velocity Tester	
6.	Rebar Locator (Profometer)	
7.	Permeability test of concrete	
8.	Laboratory jaw crusher with sieving arrangement	
9.	Cement Mortar Vibrating Machine	
10.	Self-Consolidating Concrete Test setup	
11.	Tensile Strength of cement tester	
12.	Tilting bed flow channel- length - 2.5 m	Fluid Mechanics
13.	Compression testing machine with digital readout unit (5000 kN)	Transportation Engineering
14.	Paving mix test Marshall Stability and Compaction of asphalt	
15.	Pavement core drilling machine of asphalt	
16.	Los Angeles Abrasion Testing Machine with Abrasive Charge	
17.	Hb64.35 Ductility Testing Machine for Asphalt, electrically operated	

18.	DE- Humidifier (1 ton capacity)	Geo-Technical Engineering
19.	Plate Load Test	
20.	De-Aired water Apparatus	
21.	Triaxial outfit, Motorized with Electronic Measurement	
22.	Lab Geosystem (Data logger)	
23.	Sampleject-5000, Hydraulic Sample Extruder, Electrical-cum-Hand operated	
24.	Cone Penetrometer	
25.	California Bearing Ratio Test	
26.	Dynamic Cone Penetration test	
27.	Total station	Survey lab
28.	Ion Selective Meter Kit	Environmental Engineering
29.	Wireless Weather Station	
30.	B.O.D Incubator low temp. microprocessor controlled with automatic voltage stabilizer size 455x410x610mm	
31.	Water analyzer with colorimeter (D.O meter ,conductivity, TDS,PH, salinity and temperature)	