







**ORIENTAL INSTITUTE OF SCIENCE AND TECHNOLOGY,
BHOPAL (M.P.)**

Department of Civil Engineering

ADEQUATE AND WELL EQUIPPED LABORATORIES

LAB No.	Name of laboratory	Name of the important equipment
<p>Lab 1</p>	<p style="text-align: center;">SURVEYING</p> 	<ul style="list-style-type: none"> • Abney level • Cross staff • Planimeter • Sprit level magnetic • Auto Level • Ranging Rod • Plain Table • Surveyor's chain • Tripod • Dumpy level • Invar Measuring tape 30m • Fiber Glass tape 30m • Theodolite • compass • Total Station
<p>Lab 2</p>	<p style="text-align: center;">CONSTRUCTION MATERIAL TECHNOLOGY LAB</p> 	<ul style="list-style-type: none"> • Ultra Sonic Pulse Velocity meter • Compaction Factor Apparatus • Vicat Apparatus • Set of Sieves • Slump Cone Apparatus • Cube Mould • Sieve Shaker • Rebound Hammer (Regular) • Vee-Bee Consistometer • Cement cube vibration machine • CTM

<p>Lab 3</p>	<p align="center">STRENGTH OF MATERIALS LAB</p> 	<ul style="list-style-type: none"> • Impact Testing Machine • Universal Testing Machine Brinell Hardness Testing Machine • Rockwell Hardness Tester • Torsion Test & Testing bars, Fatigue testing machine • Creep testing apparatus
<p>Lab 4</p>	<p align="center">FLUID MECHANICS LAB</p> 	<ul style="list-style-type: none"> • V Notch Apparatus • Loss in Pipe fitting Apparatus, • Reynolds Apparatus • Venturi and Orifice meter • Nozzle meter • Bernoulli Apparatus • Impact jet Apparatus • Pitot Static tube • Orifice meter
<p>Lab 5</p>	<p align="center">THEORY OF STRUCTURE (T.O.S. LAB)</p> 	<ul style="list-style-type: none"> • Apparatus for verification of Clark's Maxwell reciprocal theorem • App. for elastic properties of deflected beam • App. for behavior of column & Struts • App. unsymmetrical bending • Bending moment apparatus • Deflection of truss apparatus (Vertical & Horizontal deflection of various joints of a pin jointed truss • Three hinged Arch apparatus • Two hinged Arch apparatus • Portal frame apparatus
<p>Lab 6</p>	<p align="center">GEO TECHNICAL ENGG LAB</p> 	<ul style="list-style-type: none"> • CBR test equipment • Tri axial Test machine • Van Shear test equipment • Core cutter with dolly and rammer • Consolidation test • Sand pouring cylinder • Permeability apparatus • Pycnometer • Standard compaction apparatus

<p>Lab7</p>	<p>HIGHWAY ENGG. LAB.</p>  <p style="text-align: center; font-size: small;">Indiansclassifieds.com</p>	<ul style="list-style-type: none"> • Aggregate Crushing value Apparatus • Aggregate Impact value Apparatus • Los Angeles Abrasion Testing Machine • Penetrometer • Orifice Viscometer • Softening Point Test Apparatus • Ductility Testing Machine • Pensky Martens Closed Cap Apparatus • Stripping Value Apparatus • Thickness Gauge • Length Gauge • Oven • Thermometer
<p>Lab 8</p>	<p>Geology lab</p> 	<ul style="list-style-type: none"> • Aerial photograph (25 x 25 cms) • Fiber earth layer model • Mohr's hardness scale (1 box) • Minerals set • Hand specimen model fold (wooden blocks) • Hand specimen model fault (wooden blocks) • Model of Earthquake
<p>Lab 9</p>	<p>Environmental engg lab</p> 	<ul style="list-style-type: none"> • Chloroscope kit • Digital BOD incubator • Digital Conductivity meter • Digital PH meter • Digital Turbidity meter • Dissolve oxygen analyzer • Jar test apparatus
<p>Lab 10</p>	<p>CAD Lab</p> 	<ul style="list-style-type: none"> • Computer • Projector