



**ASHANKHYA ENVIRO CHEM PVT. LTD.**

An ISO 9001:2015 Certified Company

Solution For Water & Waste Water Treatment

An ISO 9001 : 2015 Certified Co.

## CIVIL & MECHANICAL ENGINEERING LAB EQUIPMENTS



CORRESPONDENCE ADDRESS: RZS 313 B NIHAL VIHAR NANGLOI DELHI -110041  
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We Are The Leading Manufacturer, Supplier & Exporter  
of Civil & Mechanical Engineering Lab Equipments

## CONTENT

### Civil Engineering Lab

Cement Testing Lab Equipments  
Concrete Testing Lab Equipments  
Soil Testing Lab Equipments  
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Environmental Testing Lab Equipments  
Surveying Equipments  
Structural Engineering Lab  
Safety Equipments  
General lab Equipments  
Oil & Petroleum Testing Lab Equipments

### Mechanical Engineering Lab

Strength of Material Lab Equipments  
Applied Mechanics Lab Equipments  
Fluid Mechanics Lab Equipments  
Dynamics of Machine Lab  
Fluid Machinery Lab Equipments  
RAC Lab Equipments  
Heat & Mass Transfer Lab Equipments  
Automobile Lab Equipments  
Thermal Engineering Lab Equipments  
Mechatronics Lab Equipments  
CAD/CAM Lab Equipments  
Metrology Lab Equipments



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## CEMENT TESTING LAB EQUIPMENTS



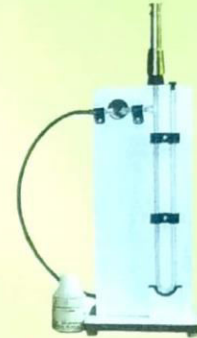
Vicat Needle Apparatus



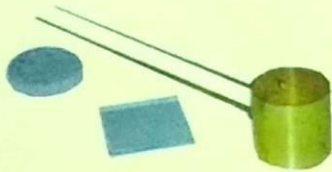
Flow Table



Gillmore Needle Apparatus



Blaine Air Permbility



Le-Chatlier Mould



Cement Autoclave



Digital CTM



Mortar Mixer



Vibrating Machine

**CONCRETE TESTING LAB EQUIPMENTS**



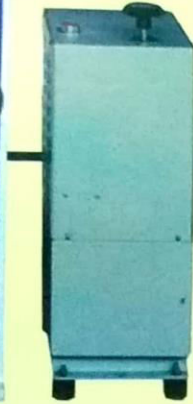
Digital Cube Testing Machine



Cube Mould



Cylindrical Mould



Longitudinal compressometer



Lateral Extensometer



Digital Curing Tank



Pan Concrete Mixer

## CONCRETE TESTING LAB EQUIPMENTS



Slum Cone Test Apparatus



Beam Mould



Compaction Factor



Digital Flexure Testing Machine



Air Entrainment Meter



Vibrating Table

## CONCRETE TESTING LAB EQUIPMENTS

### FULLY AUTOMATIC COMPRESSION TESTING MACHINE WITH PACE RATE CONTROLLER

Specification: Micro Controller based Compression Testing Machine is based on an intelligent pace rate controller. This facilitates automatic pace rate control, data logging, data printing, load hold etc. It has a full 3 term PID feedback control which uses a high torque Stepper Motor. Is consists of a Loading unit, an Electrically Operated Hydraulic Pump & an intelligent pace rate controller. The operation is user friendly with a menu driven interface System Description: The loading frame has a fully welded construction with a top crosshead, base and solid side walls with the precision ground hydraulic piston fixed to the base. The machine's platens come with a self-aligning action and suitably sized spacers to accommodate a variety of different sizes of specimen. The two speed pump allows the fast approach of platens, for daylight closure and also allows automatic, precise control over the load application; a pace rate bar on the display gives operator feedback on the loading rate. The controller incorporates a four line digital display and features the integral load pacing bar display, maximum load and stress result display and a RS 232 output. Results from 1000 completed tests can be stored in the memory and these results can be in English, Metric or SI units. The Calibration range of the machine is from 10% to 100% of the machine capacity, over which range the accuracy is  $\pm 1\%$  of the applied load.

Capacity: 1000kN, 2000kN, 3000kN  
 Dimension: 700mmX330mmX1100mm  
 RAM Dia: 165mm, 230mm and 260mm  
 Size for Testing: Cubes 70.6mm, 100mm and 150mm  
 Cylinder 100mm dia X 200mm height  
 150mm dia X 300mm height  
 Stroke Length: 50mm  
 Least Count: 1kN  
 Max Clearance between Platens: 370mm  
 Data Storage: 1000 Records  
 Pace Rate Control: Automatic  
 Data Download (Real Time): Via RS 232  
 LCD Display: 4 line display



Model No.: SET-1139



Digital Compression Testing Machine Hand Operated



Pillar Type Compression Testing Machine Three Pressure Gauge



Digital Compression Testing Machine with Pillar Nut Type with extra fitted pressure gauge



SOIL TESTING LAB EQUIPMENTS



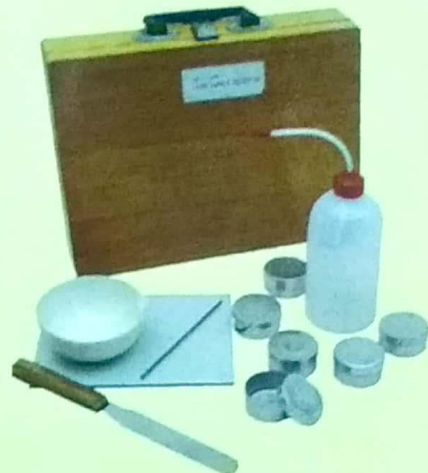
Cone Penetrometer



High Speed Stirrer



Soil Hydrometer



Plastic Limit Device



Automatic Compactor



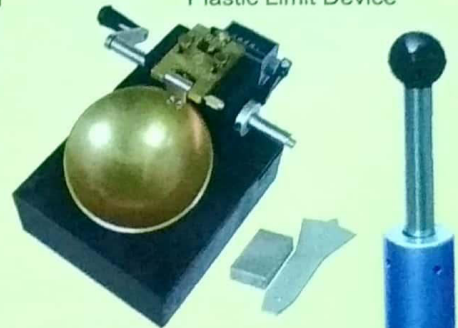
Rapid Moisture Meter



Sand Pouring Cylinder



Dolly Core Cutter Hammer



Liquid Limit Device

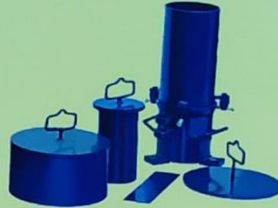


Proctor Compaction

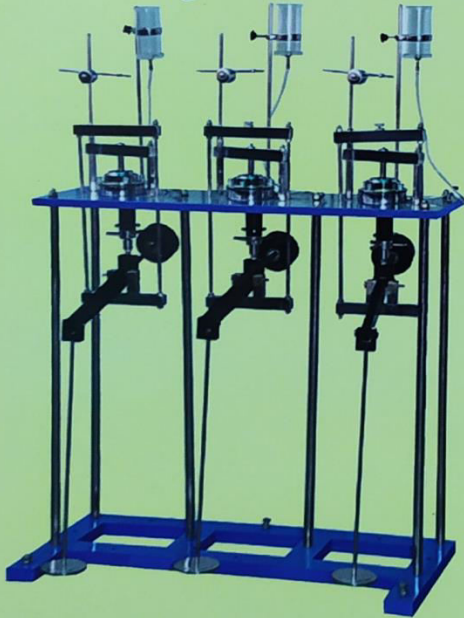
# SOIL TESTING LAB EQUIPMENTS



Relative Density Test



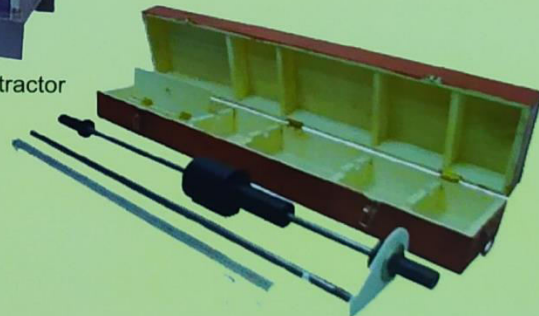
Soil Permeability Test



Consolidation Test Apparatus



Hydraulic Extractor

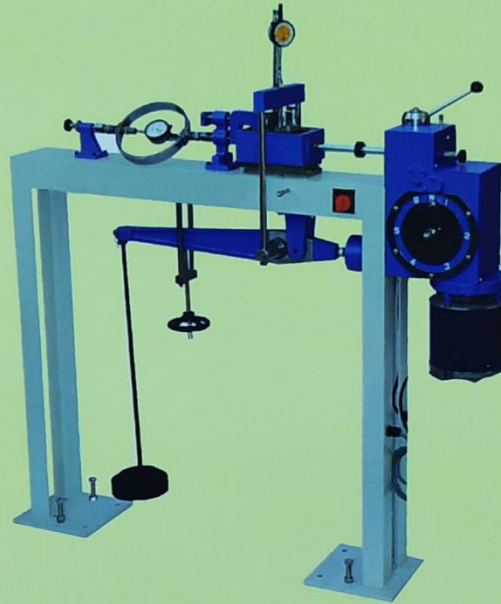


Dynamic Cone Penetration Test

# SOIL TESTING LAB EQUIPMENTS



CBR Testing Machine



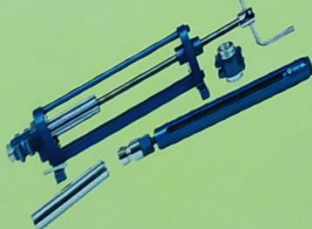
Direct Shear Test Apparatus



Unconfined Compression Test



CBR Accessories



Screw Type Extractor



Standard Penetration Test



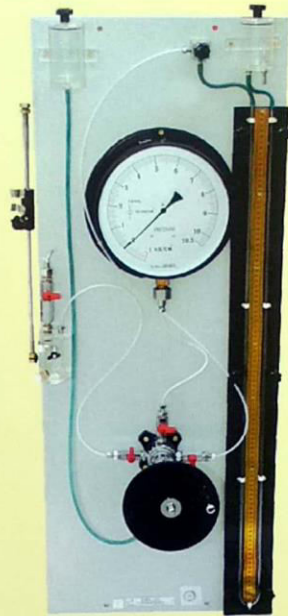
Vane Shear Test

## SOIL TESTING LAB EQUIPMENTS

### TRIAXIAL SETUP



Triaxial Cell



Pore Pressure apparatus



Dead Weight Type Oil & Water  
Constant Pressure System



Lateral Pressure Assembly



Load Frame for Triaxial Test

## SOIL TESTING LAB EQUIPMENTS



SIEVES GI/BRASS 200mm, 300MM,450MM



Swell Pressure Test



Sieve Shaker Motorized



Hand Sieve Shaker



Plate Bearing Test Apparatus

# BITUMEN/ASPHALT TESTING LAB EQUIPMENTS



Ring & Ball Apparatus



Standard Penetrometer



Automatic Penetrometer



Mixer with Heating Jacket



Tar Viscometer



Kinamitic Viscometer Bath



Stripping Value Apparatus



Bitumen Extractor H.O



Bitumen Extractor Motorized



Thin-Film Oven

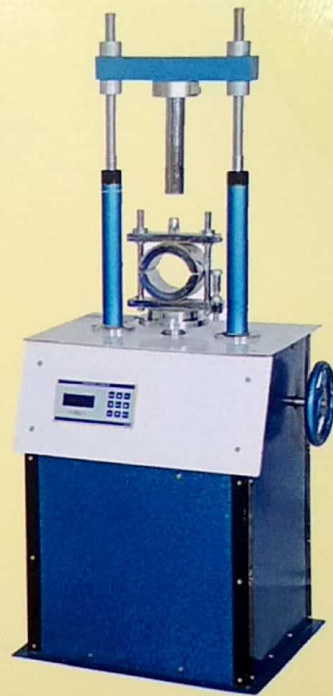
## BITUMEN/ASPHALT TESTING LAB EQUIPMENTS



Marshal Stability Machine



Core-Drilling Machine



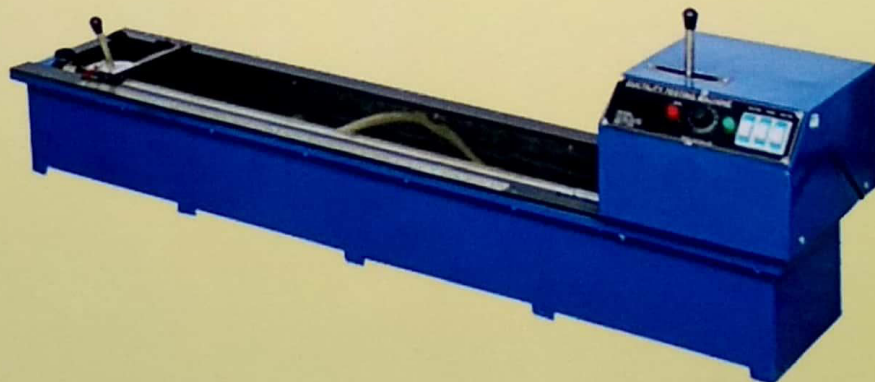
Digital Marshal Load Frame



Automatic Bitumen Compactor



Benklemen Beam Apparatus

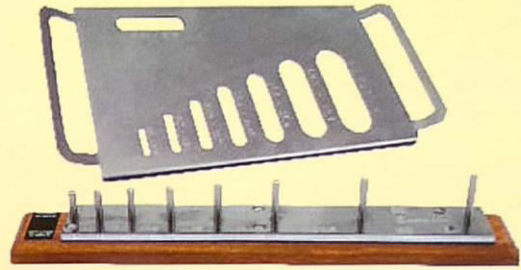


Ductility Testing Machine

## AGGREGATE TESTING LAB EQUIPMENTS



Digital Los Angles Abrasion Testing Machine



Flakiness & Elongation Test Apparatus



Aggregate Impact Value



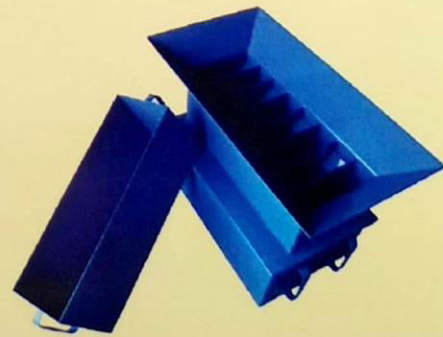
Aggregate Crushing Value



Specific Gravity Balance



Devel Abrasion Machine



Riffle Sample Divider

**AGGREGATE TESTING LAB EQUIPMENTS**



Tile Abrasion Testing Machine



Lab Jaw Crusher



Skid Resistance Tester



Dory Abrasion Testing Machine



Metal Measure



Density Basket

## ROCK TESTING LAB EQUIPMENTS



Core Drilling Machine Engine Type



Portable Core Cutting Drilling Machine Engine Type



Point Load Index Tester



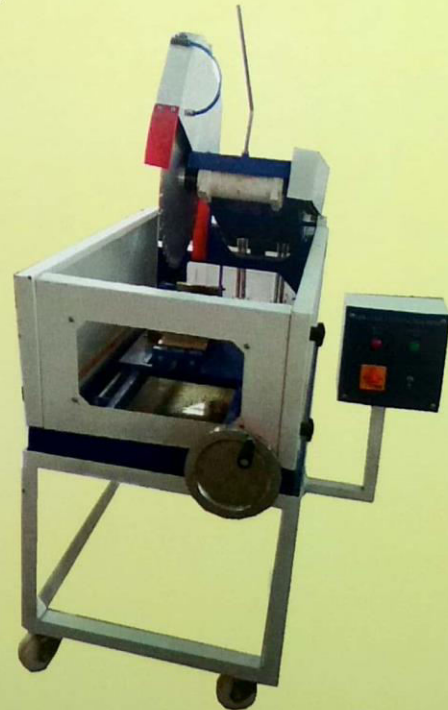
Core Cutting/Drilling Machine



Rock-Concrete Cutting Machine

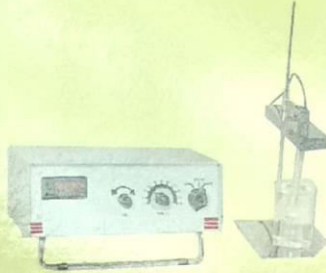


Asphalt & Concrete Floor Saw



Core Cutting & Grinding Machine

## ENVIRONMENTAL TESTING LAB EQUIPMENTS



Digital PH Meter



Water & Soil Testing Kit



Spectrophotometer



Digital Turbidity Meter



Digital Photocolorimeter



Digital TDS Meter



Air Sampler



COD Digester



Humidity Chamber



BOD Incubator



Sound Level Meter

# SURVEYING EQUIPMENTS



Total Station



Electronic Theodolite



Laser Distance Meter



Vernier Theodolite



GPS



Auto Level with Stand & Staff



Plane Table with Stand



Dumpy Level



Surveying Chain



Prismatic Compass



Ranging Rod



Cross Staff

## SAFETY EQUIPMENTS



Reflective Jacket



Safety Cone with Halmet



Round Post Hole Form



Square Hole Form



Gloves



Impalement Safety Covers



Goggles

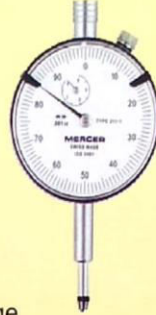
# GENERAL LAB EQUIPMENTS



Digital Oven



Dial Gauge



Muffle Furnace



Humidity Meter



Measuring Cylinder



Thermometers



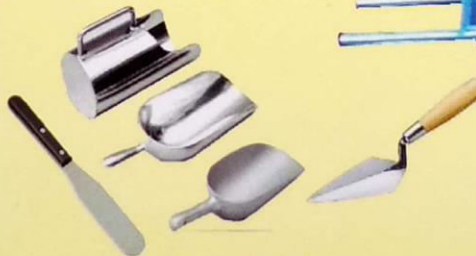
Measuring Tape, Aluminum Tin



Vernier Caliper



Water Bath



Spatula, Scoops, Trowel



Trolley



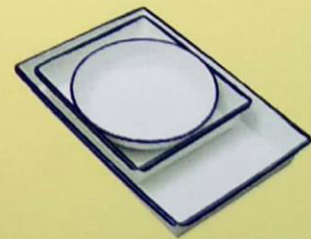
Heating Mental



Hot Plate



Vaccum Pump

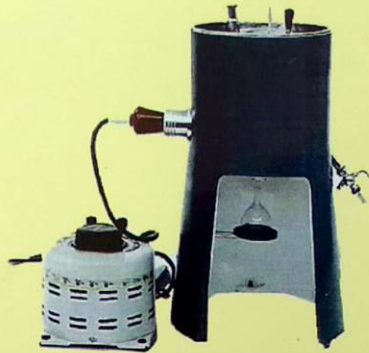


Enamel Tray

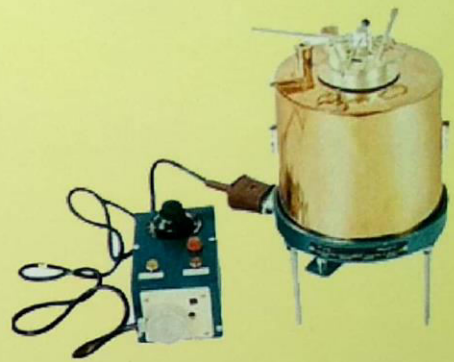
**OIL & PETROLEUM TESTING LAB EQUIPMENTS**



Cloud & Pour Point



Redwood Viscometer



Abel Flash Point Apparatus



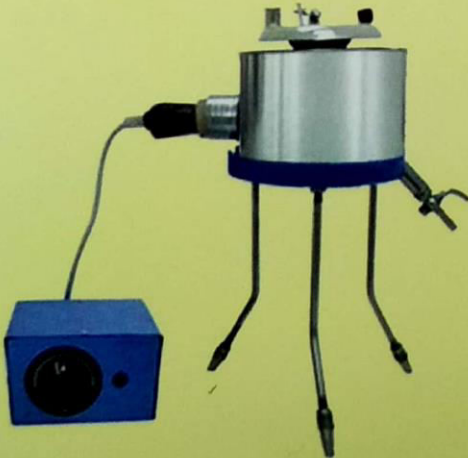
Carbon Residue, Conradson



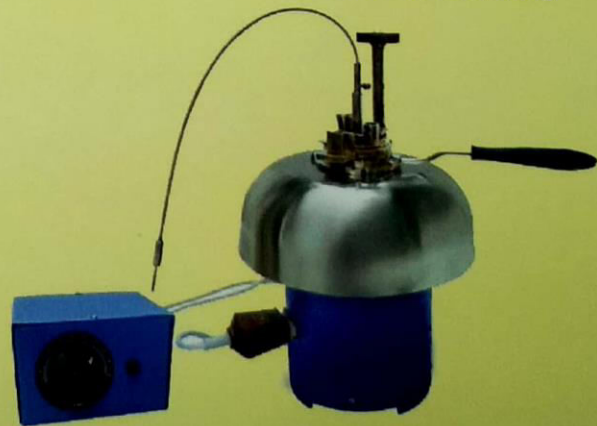
Saybolt Viscometer



Flash Point - Cleveland



Standard Tar Viscometer



Pensky-Martens Apparatus

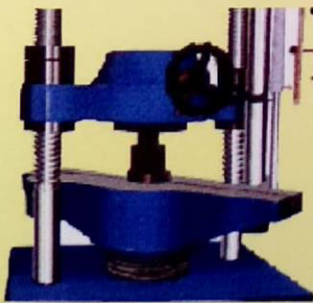
## STRENGTH OF MATERIAL LAB EQUIPMENTS



Vickers Hardness Tester    Brinell Hardness Tester    Rockwell Hardness Tester



Computerized Universal Testing Machine



Shear Test

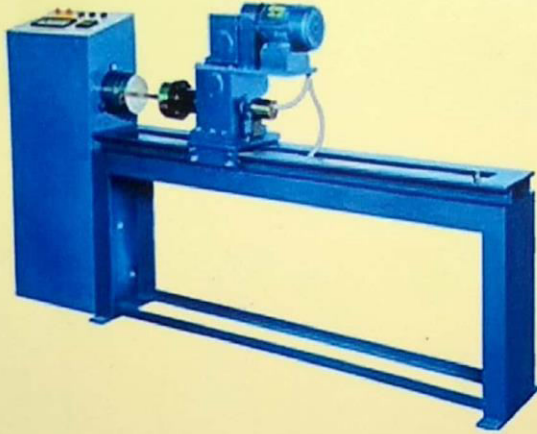


Tensile Test



Bending Test

## STRENGTH OF MATERIAL LAB EQUIPMENTS



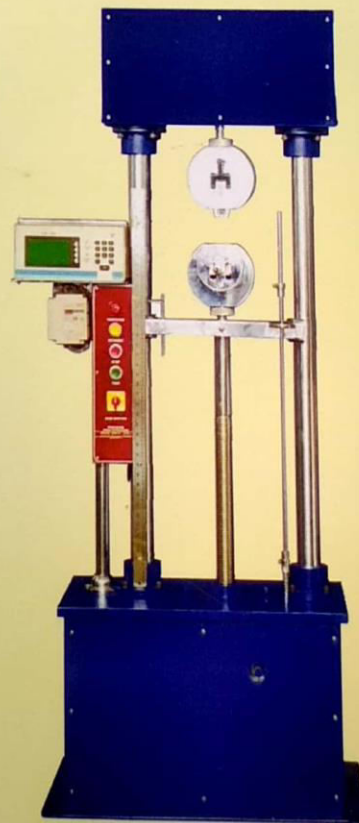
Torsion Testing Machine



Fatigue Testing Machine



Impact Testing Machine



Tensile Testing Machine



Spring Testing Machine