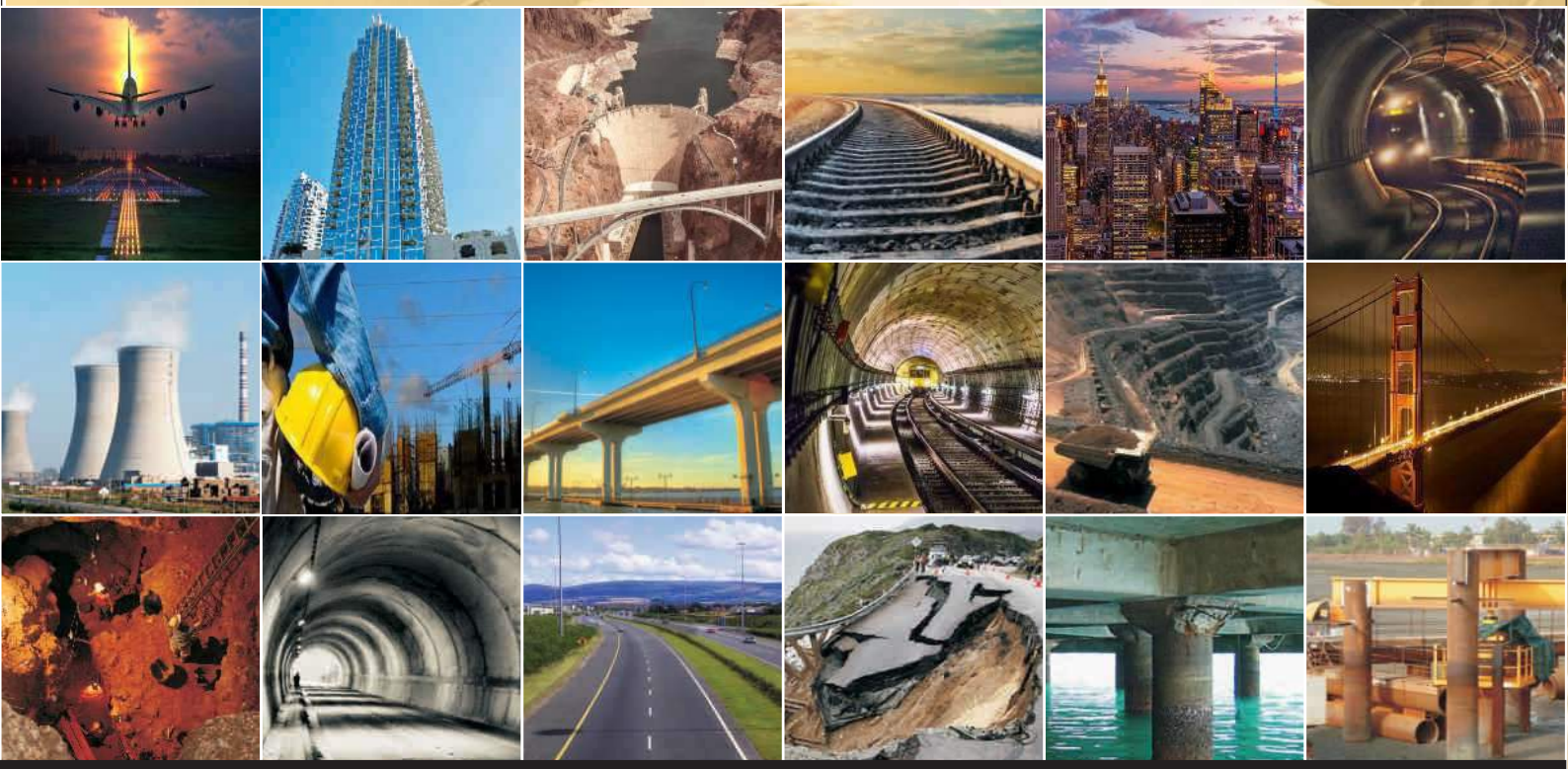


Civil Engineering

Systems and Solutions

Aimil Exports Profile





Company Profile

Aimil Ltd. is a pioneer Instrumentation Company in India. We have built our presence in the Instrumentation domain in the Indian market, since our inception in 1932. We are multi-faceted, multi-function, Quality driven organization focussed on customer needs which continuously explores the frontiers of technology and delivers quality state-of-the-art products and services.

Our Mission

“To provide optimal Quality and Customer Service by innovation and integration of leading edge global technologies.”

Our Core Values:

Core Values are the essential and enduring principles of Aimil that are integral to our success today. These are:

- Continuous Improvement and Pursuit of Excellence
- Respect for Individuals
- Learning and Self Improvement
- Credibility and Integrity



Quality Policy:

“ We will meet our Customer Requirement of Quality and Delivery through a continual review and improvement of our processes.”



NAIMEX Noida (Aimil Manufacturing)

Low cost manufacturing location with duty exemptions

- Our location in the Special Economic Zone, Noida UP as a 100% Export Oriented Unit means that we are exempt from paying any import duties, VAT on our raw materials and components used in manufacturing, this makes us extremely competitive on price.

Sizeable property with quick ramp up times for additional orders

- The property stretches over an acre of land of which the shop floor occupies 17,000 square feet with full epoxy coating to provide a clean environment.
- We have built up area over 3 floors giving us ample space for rapid expansion.

Quality Assurance

- We test in-house all the products that leave the facility.
- We have 50+ highly skilled engineers and technical supervisors who have been trained in various areas such as Lean Manufacturing & ISO Internal audits, making us highly efficient..



List of Equipment manufactured by Aimil

Soil Testing Range

Automatic Free Fall Hammer
Sample Preparation
Moisture Content
Liquid Limit
Soil Penetrometer
Shrinkage Limit
Specific Gravity
Particle Size Analysis
Load Frames
Edilab True Speed Frames
Integral Proving Rings
Shear Strength
Triaxial Shear
Pore Pressure
Lateral Pressure Assembly
Constant Pressure Systems
Automatic Volume Change Gauge
Triaxial Electronics Conversion Kit
Triaxial Test Outfits
De-Aired Water Apparatus
Edilab Data Acquisition cum Datalogging System
Geotechnical Software
Software for Testing, Analysis and Reporting of Soil Tests
Direct Shear
Vane Shear
Compaction
Relative Density
California Bearing Ratio
Consolidation
Permeability
Swell Pressure
Standard Penetration
Dynamic Cone Penetration
Static Cone Penetration
Field Vane Shear
Deformation Modulus
Field California Bearing Ratio
Plate Bearing Test
Load Truss
In-situ Density

Rock Testing Range

Sample Preparation
Rock Permeability
Strength Index
Triaxial Testing of Rocks
Unconfined
In-Situ Stress
Rock Direct Shear

Geotextile Testing Range

Geotextile Test Equipment
Hydrodynamic Sieve Test Apparatus
Cone Drop Test Apparatus
Cross Permeability Test Apparatus
In-Plane Permeability Test Apparatus
Long Term Flow Test Apparatus
Gradient Ratio Test Apparatus
Geotextile Permeameter
Large Pull Out Test Apparatus for Geo Synthetics

Concrete Testing Range

Compressive Strength
Analogue Compression Testing Machines
Portable Compression Testing Machine
Digital Compression Testing Machines
Micro Controller Based Compression Testing Machine
Automatic Compression Testing Machine
Servo Controlled Compression Testing Machine
Touchscreen Based Enhanced Digital Indicator
Flexural Strength
Flexural and Transverse Testing Machines
Rectangular Platens
Split Cylinder Test Platens
Conversion Kits
Online Solutions
Refurbish Services
Consistency and Workability
Self Consolidating Concrete (SCC) Flowability
Consistency Test
Flow Test
Compaction Factor
Setting Time by Penetration Resistance
Air Entrainment
Mixing Equipment
Moulding
Curing
Vibratory Hammer of Concrete Moulds
Capping
Creep Test Rig
Buoyancy Balance
Vibratory Compaction
Sample Collection
Tests on Hardened Concrete
Modulus of Elasticity
Drying, Shrinkage and Moisture Movement
Permeability
Abrasion Resistance of Concrete
Concrete Test Hammers
Hydraulic Jacks
Natural Frequency Tester

Cement, Lime Plaster & Mortar Testing Range

Fineness
Automatic Blaine Apparatus
Fineness of Fly Ash (Wet Sieving)
Consistency and Setting-time
Gillmore Needle Apparatus
Soundness of Cement and Hydrated Lime
Flow and Workability of Mortar and Lime
Sample Preparation
Moulding
Compression Frame Jig Assembly
Flexural Jig Assembly
Modulus of Rupture Testing
Cement Tensile Testing Machine
Permeability
Crushing & Grinding
Jaw Crusher
Pulveriser
Hydraulic Press
Heat of Hydration

Asphalt Quality Control Testing Range

Penetration
Saybolt Viscometer
Standard Tar Viscometer
Edilab Visco 2000
Engler Viscometer
Marsh Funnel Viscometer
Flow Cup
Paving Mix Tests, Marshall Stability and Compaction
Core Drilling
Compaction
Softening Point
Binder Extraction
Ductility
Benkelman Beam
Pavement Dynamic Cone Penetrometer
Surface Irregularity
Asphalt Mixing
Wheel Rut Shaper
Wheel Rut Tester
Skid Resistance Tester
Film Stripping Device
Asphalt Mixture Theoretical Density Meter
Pavement Intensity Test Apparatus
Water Proofing Apparatus - Hydraulic
Asphalt Extraction Apparatus Automatic
Trichloroethylene Recycler
Asphalt Content Tester
Mastic Asphalt Tester
Mobile Laboratories

Training Programme

Aimil Paathshala for Professionals

With an aim to share our experience and expertise in Instrumentation, gained over the years, we are pleased to introduce Aimil Continual Education Programmes (Aimil CEP) for our valued customers and other Professionals working in the field of Civil Engineering

Sand, Aggregate & Fillers Testing Range

In-situ Sampling and Preparation
Determination of Flakiness & Elongation
Specific Gravity and Water Absorption
Bulk Density, Voids and Bulking
Mechanical Properties of Aggregates
Aggregate Impact Value, Polished Stone Value
Abrasion

Material Testing Range

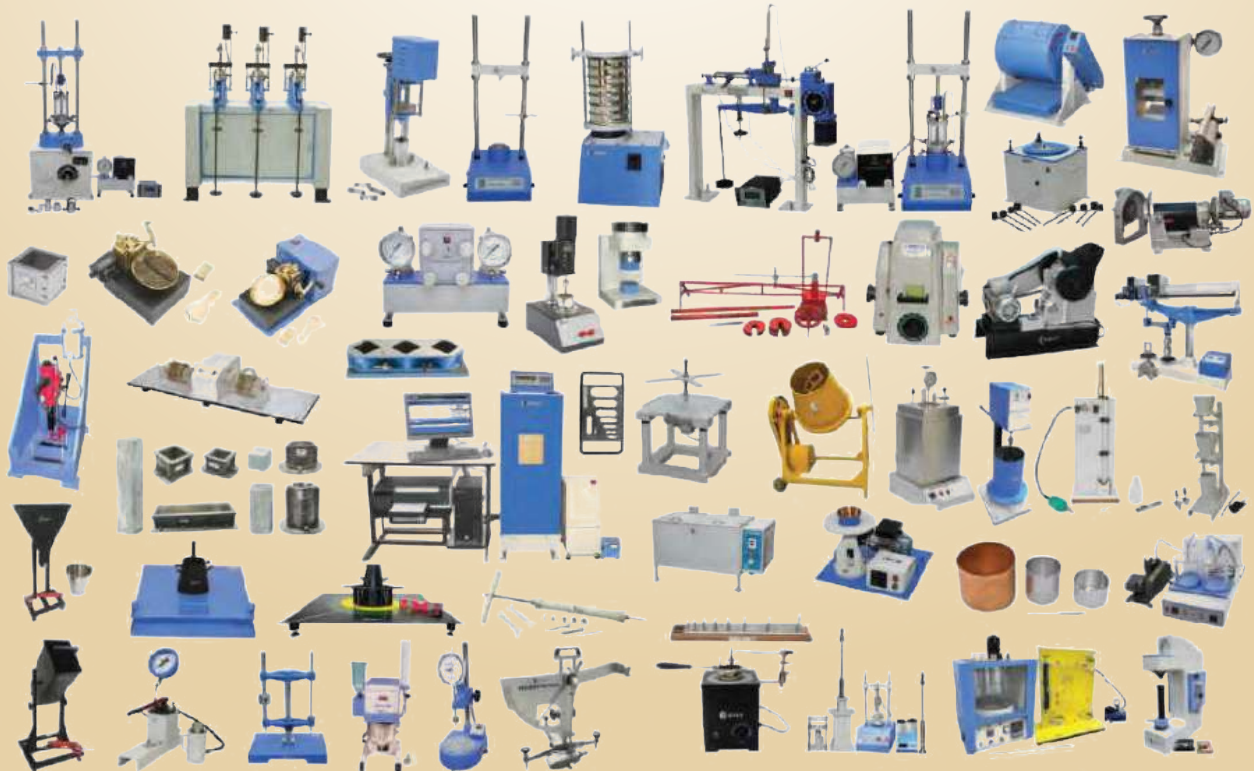
Universal Testing Machine
Brinell cum Rockwell Hardness Tester
Fatigue Testing Machine
Pendulum Impact Tester
Torsion Testing Machine
Crushing Strength of Iron Ore Pellets
Manhole Cover Testing Machine

General Laboratory Equipment

Weighing Balances, Weighing Bottles
Drying Ovens
Muffle Furnace
Water Baths
Hot Plates
Glass Ware, Evaporating Dish
Measuring Cylinders
Volumetric Flasks, Funnels
Pipettes, Burettes
Dessicators
Thermometers
Humidity Chambers
Miscellaneous Tools, Miscellaneous, Others

Courses available for:

Cement Testing, Non Destructive Testing, Civil Engineering Material Testing, Geotechnical Investigations, Geophysical Testing, Evaluation Equipment and Services, Civil Engineering Analysis Software, Surveying, Structural Monitoring Instruments, Data Acquisition Systems, Noise, Vibration, Harshness, Other Skill Building courses.



SOIL - Testing Equipment

Automatic Free Fall Hammer



AIM 025

Sample Preparation

- Hand operated Extractor
- Sampleject-5000



AIM 033-1

Moisture Content

- Speedy Moisture Meter
- Infra-Red Moisture Meter



AIM 038

Liquid Limit

- Hand Operated
- Motorised



AIM 041

Specific Gravity

- Pycnometer



AIM 046

Cone Penetrometer

- Soil Cone Penetrometer
- Digital Hand Type



AIM 042-3

Shrinkage Limit

- Shrinkage Limit set



AIM 045

Particle Size Analysis

- Motorised Sieve Shaker
- Vibratory Sieve Shaker



AIM 054-1

Sedimentation Analysis

- Andreasen Pipette Stand
- High Speed Stirrer
- Plummet Balance



AIM 055

Load Frames



AIM 064-E

- Motorised, Three Speed
- Motorised, 30 speeds
- Motorised, Microprocessor Based
- Motorised, 12 speeds

Integral Proving Rings



Proving Rings

Shear Strength



AIM 074-1
Unconfined
Compression Tester,
Proving Ring Type

Triaxial Shear



AIM 075

- Triaxial Cells, 38mm and 50mm dia
- Triaxial Cell, Stationary Bushing
- Universal Triaxial Cell

Pore Pressure Apparatus



AIM 077

- 1000 kPa (10 kg/cm²) capacity.
- 2000 kPa (20 kg/cm²) capacity.

Constant Pressure Systems



AIM 081-1-2

- Constant Pressure System Oil Water Type
- Constant Pressure System Air Water Type
- Pressure Volume Controller
- Sensitive Volume Change Gauge

Automatic Volume Change



AIM 084-1

Triaxial Electronic Conversion Kit



AIM 085
Lab-GeoSystem
Data Logger

Triaxial Test Outfits



Triaxial Outfits

Aimil-GDS

Automatic Triaxial Testing System



AIM 096-GDS

"GeoStar" the Geotechnical Software for Testing, Analysis and Reporting



'GeoStar' Welcome Screen

Direct Shear



AIM 104

- Direct Shear apparatus, 2 kN
- Direct Shear Test Apparatus, Electronic, 2kN
- Direct Shear Outfit, Electronic, 2kN, complete with Aimil 'DAQ' System
- Direct Shear Outfit, 2kN, with Microprocessor loading unit, Electronic
- Large Direct Shear Apparatus, Motorised, 50 kN

Vane Shear



AIM 108-1

Laboratory Vane Shear Apparatus, Motorised

Compaction

- Universal Automatic Compactor as per IS
- Universal Automatic Compactor as per BS
- Universal Automatic Compactor as per ASTM



AIM-114

Relative Density



AIM 115-1

Relative Density Apparatus

California Bearing Ratio

- Laboratory California Bearing Ratio Test Apparatus, Motorised Three speed (with GM mould)
- Laboratory California Bearing Ratio Test Apparatus, Motorised Three speed (with MS mould)
- Laboratory California Bearing Ratio Test Apparatus, Motorised Three speed Electronics
- Laboratory California Bearing Ratio Test Apparatus, Motorised Electronics with DAQ & GeoStar.



AIM 120

Permeability

- Laboratory Permeability Apparatus (Falling Head method)



AIM-131

Swell Pressure



Swell Test Apparatus
AIM-132

Consolidation

- Single Gang
- 3 Gang
- Single Gang Electronic
- 3 Gang Electronic
- Single Gang Electronic with DAQ & Software
- 3 Gang Electronic with DAQ & Software
- Consolidation Apparatus Automatic with Touchscreen



AIM 125

Static Cone Penetration

- Static Cone Penetrometer 30kN Capacity, Hand Operated
- Static Cone Penetrometer Capacity 100 kN (Engine Driven)
- Static Cone Penetrometer Capacity 200 kN (Engine Driven)
- Static Cone Penetrometer Digital Capacity 100 kN (Engine Driven)



AIM 136-DG

Field Vane Shear



AIM 138

Field California Bearing Ratio



AIM 155

- California Bearing Ratio Test Apparatus, Field Type

Standard Penetration

- Standard Penetration Test Set

Dynamic Cone Penetration

- Dynamic Cone Penetration Test Apparatus



AIM 019-1 & AIM 021

Plate Bearing Test & Load Truss

- Plate Bearing Test Apparatus



AIM 157

In-Situ Density

- Core Cutter
- Sand Pouring Cylinder Apparatus
- Sand Pouring Cylinder Apparatus Large
- Proctor Penetrometer



AIM 161

Deformation Modulus

- Pressuremeter type 'GA' 80 bar capacity (AX Probe Outfit)
- Pressuremeter 'GA' 80 bar capacity (BX Probe Outfit)
- Pressuremeter 'GA' 80 bar capacity (AX & BX Probe Outfit)
- Pressuremeter 'GA' (AX Probe Outfit, Low capacity)
- Pressuremeter 'GA' (BX Probe Outfit, Low capacity)
- Pressuremeter 'GA' 80 bar capacity (NX Probe Outfit)
- Pressuremeter 'GA' 25 bar capacity (NX Probe Outfit)

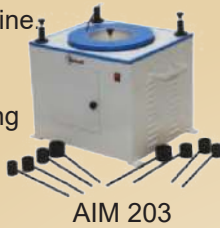


AIM 141

ROCK - Testing Equipment

Sample Preparation

- Core drilling machine
- Core Cutting & Grinding Machine
- Polishing & Lapping Machine



AIM 203

Rock Permeability

- Miniature High Pressure Permeameter



AIM 205

Strength Index

- Point Load Index Tester
- Brazilian Test Apparatus
- Slake Durability Apparatus



AIM 206-1

Triaxial Testing of Rocks

- Triaxial Cells
- Hoek Cells
- Constant Pressure System for Rocks
- Electronic Instrumentation for Rock Triaxial Test



Unconfined

- Unconfined Compression Tester for Rocks

In-Situ Stress

- Flat Jack Outfit

Rock Direct Shear

- Direct Shear Apparatus Hand Operated for Rocks
- Advanced Rock Direct Shear Test Equipment for Testing of Rock Joints & Gravelly Soil Samples



AIM 221

Hydro Fracture System



AIM 240

GEOTEXTILE - Testing Equipment

Geotextile Test Equipment

- Thickness Gauge
- Dry Sieve Test Apparatus



AIM 241

Hydrodynamic Sieve Test Apparatus

- Interface Friction



AIM 243

Cone Drop Test Apparatus



AIM 247

Cross Permeability Test Apparatus



AIM 248

In-Plane Permeability Test Apparatus



AIM 249

Long Term Flow Test Apparatus



AIM 250

Gradient Ratio Test Apparatus



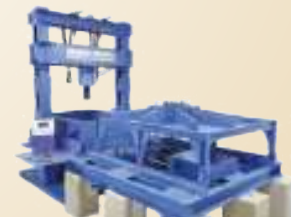
AIM 251

Geotextile Permeameter



AIM 254

Large Pull Out Test Apparatus for Geo Synthetics



AIM 255

CONCRETE - Testing Equipment

Compressive Strength

- Analogue Compression Testing Machine
- Portable Compression Testing Machine
- Digital Compression Testing Machine, Hand Operated.
- Digital Compression Testing Machine
- Micro Controller Based Compression Testing Machine with Automatic Pace Rate Controller
- Automatic Compression Testing Machine
- Portable Compression Testing Machine with Aimil Software
- Touchscreen based Enhanced Digital Indicator (EDI) for Compression Testing Machine
- Compression Testing Machine Electromechanical Type, 50kN Capacity
- Aimil Prime Compression Testing Machine
- Aimil Prime Automatic Compression Testing Machine
- Servo Controlled Compression Testing Machine



AIM 320E-FA-1

Flexural Strength



AIM 332

Consistency & Workability

- Slump Test Apparatus



AIM 334

Self Consolidating Concrete (SSC) Flowability

- J-Ring
- L-Box
- U-Box
- V-Funnel
- Flow Table for self Compacting Concrete
- Flow Cone & Flow Tunnel with Stand



AIM 334J

Consistency Test

- Aimil Consistometer



AIM 335

Flow Test

- Flow Table Motorised



AIM 336

Compaction Factor

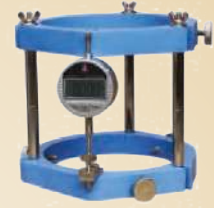
- Compaction Factor Apparatus



AIM 337

Modulus of Elasticity

- Longitudinal Compressometer
- Lateral Extensometer



AIM 372-DG

Setting Time By Penetration Resistance

- Concrete Penetrometer, Spring Type
- Bulk Density



AIM 338

Air Entertainment

- Capacity 0.005 m³ (5 litres)
- Capacity 0.01 m³ (10 litres)
- Capacity 0.1 m³ (100 litres)



AIM 341

Mixing Equipment

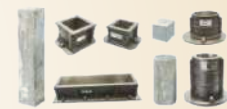
- Concrete Mixer, Drum Type, Capacity 30 Litres
- Concrete Mixer, Pan Type, Capacity 40 Litres



AIM 9891

Moulding

- Cube Moulds
- Beam Moulds
- Cylindrical Moulds



Moulds

Curing

- Curing Tank



AIM 355-1

Vibratory Hammer for Concrete Moulds



AIM 356

Capping

- Cylindrical Specimen Capping Equipment



AIM 357

Creep Test Rig & Buoyancy Balance



AIM 239 AIM 9933

Vibration Compaction

- Vibrating Table



AIM 365-1

Sample Collection

- Core Case



AIM 368

Tests on Hardened Concrete

- Demountable Mechanical Strain Gauges



AIM 370-DG

Drying, Shrinkage and Moisture Movement

- Length Comparator
- Volume Change Apparatus
- Prism Mould



AIM 374-1 DG

Permeability

- Concrete Permeability Apparatus



AIM 384

Abrasion Resistance of Concrete

- Underwater Method
- Abrasion Charge Method



AIM 385

Concrete Test Hammer (Normal and Digital)



AIM 388-DG

Hydraulics Jacks

- Capacity 50kN, 100kN, 250kN, 500kN, 1000kN, 2000kN and 3000kN



AIM 468

Natural Frequency Tester



Power Amplifier



Signal Source



Data Acquisition System

CEMENT - Testing Equipment

Flow and Workability of Mortar and Lime

- Flow Table, Hand Operated
- Flow Table, Electrically Operated



AIM 411-1

Sample Preparation

- Digi Mortar Mixer
- Vibration Machine

AIM 412-4



- Cube Moulds
- Jolting Apparatus
- Mould for Flexural Prism



AIM 421

Fineness

- Air Permeability Apparatus (Blaine Type) with ISI Certified Mark, IS:5516



AIM 390

Automatic Blaine Apparatus

- Standalone data recording & controlling system having inbuilt temperature monitoring facility.
- PC based data recording & monitoring system.

AIM 391-3



Fineness of Fly Ash (Wet Sieving)

AIM 392



Consistency and Setting-time

- Vicat Apparatus with ISI Certification Mark IS:5513
- Gillmore Needle Apparatus

AIM 394



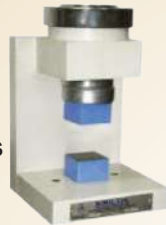
Soundness of Cement and Hydrated Lime

- Le-chatelier Mould
- Extensibility of Mould Apparatus
- Le-Chatelier Flask
- Shrinkage Bar Mould
- Laboratory Cement Autoclave



AIM 408-2

- Compression Frame Jig Assembly
- Flexural Jig Assembly
- Demoulding Apparatus, for demoulding the specimens
- Modulus of Rupture Testing Machine M.O.R. Hand Operated/Electrically Operated



AIM 422-J

Modulus of Rupture (M.O.R.) Testing Machine for Ceramic

AIM 430-S1



Cement Tensile Testing Machine

AIM 434-1



Permeability



AIM 438

Crushing & Grinding

- Laboratory Ball Mill Capacity 5 Kg. 10 Kg. and 20 Kg.



AIM 441-10

Jaw Crusher



AIM 442-1

Pulveriser



AIM 443-1

Hydraulic Press



AIM 915-S1

Heat of Hydration Apparatus



AIM 9934

Sand, Aggregate & Fillers - Testing Equipment

Aggregate Impact Value Tester with Blow Control

- Aggregate Impact Value Tester with Blow Control



AIM 456

Abrasion

- Deval Abrasion Testing Machine
- Los Angeles Abrasion Testing Machine



AIM 458

Flexural Test

- The Flexure Strength Testing Machine



AIM 460

Polished Stone Value (PSV)

- Accelerated Polishing Machine



AIM 461

Tile Abrasion Testing Machine



AIM 481

In-situ Sampling and Preparation

- Rifle Sample Divider



AIM 446

Determination of Flakiness & Elongation

- Thickness Gauge
- Length Gauge



AIM 450

Specific Gravity & Water Absorption



AIM 453

Bulk Density, Voids Bulking

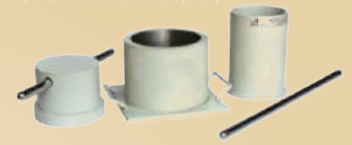
- Cylindrical Metal Measures
- Bulk Density



AIM 454

Mechanical Properties of Aggregates

- Crushing Value Apparatus



AIM 455

Asphalt Quality Control - Testing Equipment

Carbon Residue

- Carbon Residue, Conradson



AIM 501

Cloud and Pour Point

- Cloud and Pour Point Apparatus



AIM 503

Flash Point

- Flash Point (Open) & Fire Point Cleveland
- Abel Flash Point Apparatus
- Flash Point (Closed) Pensky-Martens Apparatus
- Flash Point (Open) & Fire Point Pensky-Martens Apparatus

AIM 507



Penetration

- Universal Penetrometer
- Penetration Cone
- Bitumen Penetration Kit



AIM 512-1

Redwood Viscometer

- Redwood No.1 Viscometer
- Redwood No.2 Viscometer



AIM 528

Saybolt Viscometer



AIM 529-1

Standard Tar Viscometer



AIM 531

Aimil Viscometer 2000 Engler Viscometer

- Engler Viscometer
- Electrical Heating



AIM 534

Marsh Funnel Viscometer



AIM 536

Flow Cup



AIM 539

Paving Mix Test, Marshall Stability and Compaction

- Marshall Apparatus
- Modified Marshall Apparatus
- 50kN Single Speed
- Digi Marshall Apparatus



AIM 550-2

Core Drilling

- Pavement Core Drilling



AIM 551-1

Compaction

- Automatic Compactor for Bituminous Mixes
- Bitumen Compactor for Modified Marshall Moulds



AIM 553-1

Softening Point

- Ring and Ball Apparatus



AIM 561-1

Binder Extraction

- Centrifuge Extractor, Capacity 1500g Electrically Operated



AIM 563-1

Ductility

- Ductility Testing Machine, Electrically Operated, Digital



AIM 565-1

Surface Irregularity - MERLIN



AIM 570

Flexure

- Benelman Beam
- Pavement Dynamic Cone Penetrometer



AIM 566-3

Asphalt Mixing



AIM 577

Bump Integrator

- Bump Integrator with preset facility
- Bump Integrator with Unevenness Index



AIM 9903

Wheel Rut Shaper



AIM 578

Wheel Rut Shaper



AIM 579

Skid Resistance Tester



AIM 580

Film Stripping Device



AIM 581

Asphalt Mixer Theoretical Density Meter



AIM 582

Asphalt Extraction Apparatus Automatic



AIM 588

Trichloroethylene Recycler



AIM 589

Asphalt Content Tester



AIM 590

Mobile Laboratories

- Laboratory on Wheel



- Mobile Laboratory Layout Plan

Material Testing Lab - Testing Equipment

Universal Testing Machine



- Computerised, Capacity 400kN, 600kN & 1000kN

Brinell Cum Rockwell Hardness Tester



AIM 663

Fatigue Testing Machine



AIM 664

Pendulum Impact Tester



AIM 665

Torsion Testing Machine



AIM 670

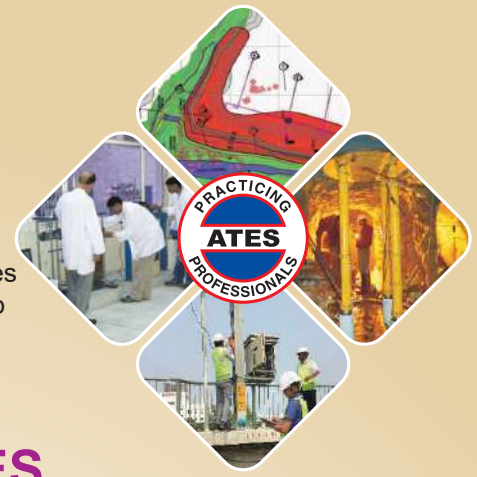
Also Available:

- Crushing Strength Testing Machine for Iron Pellets
- Manhole Cover Testing Machine for Iron Pellets

Advanced Technology & Engineering Services

A division of Aimil Ltd. | ISO 9001 (2008)

Advanced Technology and Engineering Services (ATES) is the Consultancy division of Aimil Ltd. The company established in 1932, is an ISO 9001: 2008 Certified Company, well known in India and abroad for manufacturing and sales of Civil Engineering & Scientific instruments. ATES is a multi-disciplinary group of highly qualified professionals, practicing in the areas of Civil, Geology, Earthquake and Mining Engineering.



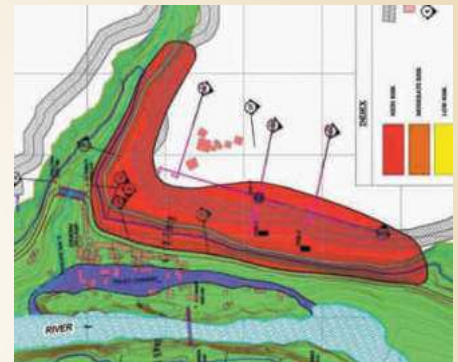
Specialised Services Provided by ATES

Design & Analysis :

ATES has a vast experience of executing design and analysis projects of large and specialized civil structures like Concrete & Earthen Dams, Underground Powerhouse Cavern Complexes, Tunnels, Landslide Zones & many more. We have successfully completed some of the challenging & prestigious projects. Our services include :

> Advanced Numerical Analysis of Geotechnical Structures

- 2D & 3D Continuum Analysis of Soil & Rocks
- 2D & 3D Discontinuum Analysis of Jointed Rockmass
- Elastic & Elasto-Plastic Analysis of Soil & Rock
- Seepage Analysis of Geomechanical media
- Thermal Analysis
- Creep Analysis
- Static, Pseudo-Static, Hydro-Static & Hydro-Dynamic Analysis
- Dynamic Analysis



> Tunnel Design & Analysis

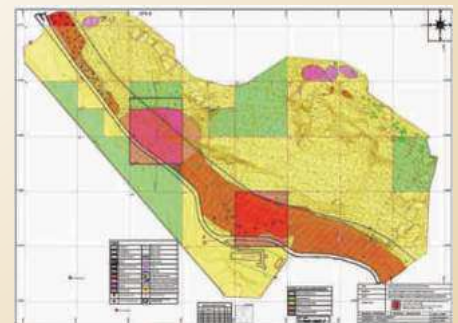
- Drill & Blast Tunnels • NATM Tunnels • TBM Tunnels

> Foundation Design & Analysis

- Shallow Foundations
- Deep Foundations

> Slope Stability Problems

- Natural Slope
- Hill Cut & Fill Slopes
- Earthen/Rock Fill Dams
- Slope Treatment and Mitigation Methods
- Liquefaction Potential Analysis
- Design of Ground Improvement
- i) Mechanical Stabilized Earth Wall Design & Supervision Services
- ii) Grouting
- iii) Soil Nailing and Ground Anchor
- Landslide Hazard Evaluation Studies and Zonation Mapping



Geotechnical Investigations :

ATES, with its in-house capabilities & international collaborators, provides state-of-the-art field & laboratory based services in the area of rock & soil mechanics. ATES innovates, designs and manufactures equipments for in-situ & laboratory based examinations. The division generates highly specialized & qualified geotechnical inputs and provides solutions to challenging issues.

> Field Investigations

ATES has expertise in field studies for rocks & soils like :

- Drilling and Sampling
- Bore Hole Logging
- Field Permeability
- Standard Penetration Test
- Dynamic Cone Penetration Test
- Vane Shear Test
- Pressuremeter Test (Max. capacity 80 bar)
- Dilatometer (Max. capacity 300 bar)
- Plate Load Test
- Modulus of Sub-grade Reaction (K-Value)
- California Bearing Ratio
- Plate Jacking Test inside drift with option for borehole extensometer for multi-point measurement
- Hydrofracture/HTPF Test
- Flat Jack Test for In-situ Stress Measurement
- In-situ Direct Shear Test
- Pull Out Test of grouted rock anchors
- Monitoring of Rock Movements



Laboratory Tests :

ATES has well established in-house laboratory of international standards, equipped with modern and up to date instruments for characterizing physic-mechanical properties of soil, rock and rock joints.

> Soil

- Gradation Analysis
- Atterberg Limit
- Direct Shear Test
- Uniaxial Compressive Test
- Triaxial Compressive Strength Test UU/CU/CD
- Consolidation
- Permeability
- Density
- California Bearing Ratio (CBR)
- Proctor Compaction
- Swell Pressure & Swelling Index
- Determination of total soluble solids, organic matter, calcium carbonate, cation exchange capacity, pH value and total soluble sulphates



> Intact Rock and Rock Joints

- Index Properties
- Uniaxial Compressive Test
- Triaxial Compressive Test
- Modulus of Elasticity And Poisson's Ratio
- Tensile Strength Test
- Point Load Index Test
- Hardness / Toughness Test
- Petrographic Analysis
- Direct Shear Test

> Concrete Technology

- Construction Material Survey (RBM, Query, C.A.,F.A. etc)
- Repeated Temperature Cycle Test
- Laboratory Testing of Materials • Design of Mortar & Concrete Mixes
- Design of Gunit/Shotcrete/Steel Fiber Reinforced Shotcrete Mixes
- Design of Concrete Mixes and Masonry(Calgrout)
- Tests on Hardened Concrete
- Design of Epoxy Resin/Polyurethane Mortars and Epoxy/Polymer Concrete Mixes • Temperature Control Studies
- Creep and Shrinkage Characteristics
- Alkali Aggregate Reaction Studies
- Execution and Supervision of Quality Control
- Design of Roller Compacted Concrete Mixes • Setting Up of Field Laboratories



Engineering Geology and Geo-hazards :

ATES provides most scientific and complete solutions/services in the field of Engineering Geology/Geo-hazards. We have in-house experienced team of Engineering Geologists/Geo-Experts, who work closely together with Geophysicists/Geotechnical team to analyze specific Geological problems and develop best suited scientific solutions.

Key geological services are:

- Surface Geological Mapping
- Acquisition of Data from site and their Analysis
- Geological Logging of cores recovered from drill holes
- 3D Geological Logging of Drift/Tunnel/Caverns
- Geo Mapping of Slopes
- Preparation of Detail Project Report that includes all necessary inputs for detailed design



Geophysical Services :

ATES has the privilege of having highly experienced professionals to provide an entire range of geophysical solutions, including investigations and consultancy for a wide range of civil engineering applications with state-of-the-art instrumentation.

ATES provides a wide range of Geophysical Services

> Seismic Surveys

- Bedrock Profiling & Over Burden Thickness
- Fracture, Weak Zone Identifications
- Rippability Studies

> Electrical Surveys

- Soil Resistivity Studies
- Ground Water Investigations
- Land Fill Site Selections

> Seismic Tomography, Crosshole/Downhole

- Determination of Seismic Velocities
- Liquefaction Studies

> Ground Penetrating Radar Surveys

- Buried Utilities
- Geotechnical and Environmental
- Infrastructure Assessment (Bridges, Buildings etc.)
- Tunneling and Underground Cavities

> Traffic Surveys

> Topographic Surveys



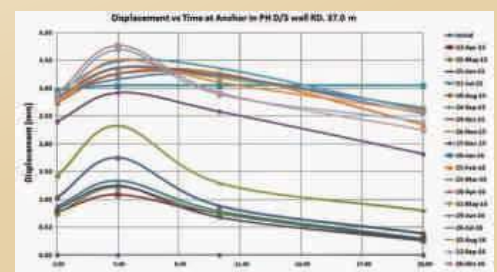
Health Monitoring of Civil Structures :

- Non-Destructive Testing
- Pile Integrity Tests
- Vibration Monitoring
- Mapping Defects in Buildings, Bridges and Dams
- Repair & Rehabilitation
- Survey of Archaeological Monuments



Structural Monitoring & Instrumentation :

- Planning & Design of Instrumentation Scheme
- Installation & Monitoring
- Data Analysis & Interpretation
- Turnkey Instrumentation Solutions Including Supply
- Web Based Monitoring



Major Projects in India & Abroad

Ground Penetrating Radar Surveys :

- LBSNAA, Mussoorie
- 219 towns of Rajasthan
- Pir Panjal Tunnel T-80
- Durgapur Steel Plant
- Pragati Maidan, New Delhi
- Various Road Junctions in Bangalore
- Various Road Junctions in Chandigarh
- Ta-Prohm Temple, Cambodia
- Parliament House, Delhi
- State Roads of Punjab
- Diesel Locomotive Shed, Roja

Geophysical Surveys :

- Karuma, Uganda, Africa
- Hirong, Arunachal Pradesh
- Lower Siang, Arunachal Pradesh
- Mwache, Kenya
- Yamne Stage –II, Arunachal Pradesh
- Kholongchu, Bhutan
- Wangchhu H.E. Project, Bhutan
- Kishanganga H.E. Project, J&K
- Chanju H.E. Project, Himachal Pradesh
- Ratle H.E. Project, J&K
- Northern Railway, Chandigarh
- Yadadri Thermal Power Station, Telangana

Geotechnical Investigations :

- Budhi Gandaki H.E. Project, Nepal
- Upper Karnali H.E. Project, Nepal
- Kiru & Kwar H.E. Project, J&K
- Radha Soami Samadh, Agra
- Luhri H.E. Project, H.P.
- Hirong H.E. Project, A.P.
- Pakal Dul H.E. Project, J&K
- Sawalkot H.E. Project, J&K
- Kalai I & II H.E. Project, A.P.
- Solu H.E. Project, Nepal
- Kuri H.E. Project, Bhutan

Laboratory Investigation :

- Sawalkot H.E. Project, J&K
- Nikachhu H.E. Project, Bhutan
- Dhaula Sidh H.E. Project, H.P.
- Bangalore Metro UG2, Bangalore
- Chango Yangthang H.E. Project, H.P.
- Kantangshiri H.E. Project, A.P.
- Baragaon H.E. Project, H.P.
- Tehri PSP

Numerical Modeling :

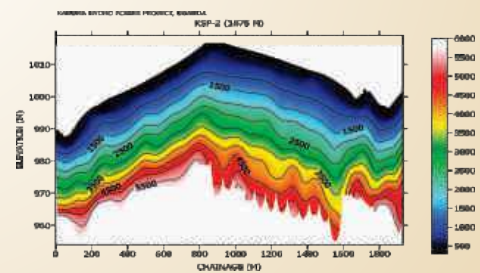
- Bajoli Holi H.E. Project, H.P.
- Ratle H.E. Project, J&K
- Sawra-Kuddu H.E. Project, H.P.
- Dagachhu H.E. Project, Bhutan
- Jammu Udhampur section of NH-1A, J&K

Structural Monitoring & Instrumentation Projects :

- AMC-Karcham Wangtoo
- Tehri, H.E. Project
- Sainj, Kullu
- DMRC Projects in Delhi
- AHPCL, Uttarakhand
- Landslide Monitoring - CBRI Roorkee
- Archeological Site - Khooni Darwaza, Delhi

Health Monitoring of Civil Structures :

- L'oreal Building at Baddi
- Haldiram's Building, Delhi
- British School, Delhi
- NDT at Kopili H.E. Project
- Building Condition Survey - DMRC Projects
- NDT at GSFC Jetty & Approach Trestle, Sikka
- Condition Survey & Residual Life Assessment - Tar Distillation Plant
- Building Condition Survey-Dubai Metro Greenline
- Crack Mapping for Delhi Metro Airport Line
- Building Condition Survey - Jaipur Metro



Geotechnical & Structural Monitoring Instrumentation



Civil Engineering Solutions for Monitoring of.....

Dams & Irrigation Projects

UG Cavern / PS Projects

UG / Elevated Metro Project

Road / Rail Tunneling Projects

Highways & Infrastructure Projects

Landslide / Geo Hazard Projects

Building / Heritage Structures

High Speed Railway Infra Projects

Slopes / Deep Excavations

Piling / Raft Foundation

Bridges / Flyovers

Road Sector Projects

Ports & Harbors

Mining Projects

Hydro / Thermal / Nuclear Power Projects

Research & Educational Institute

Aimil is in-house software development group company. All electronics are developed in our In-house DST accredited R&D Centre



Content

Piezometer

Casagrande Porous Tube Piezometer
Open Standpipe Piezometer
Vibrating Wire Piezometers
Electronic Water Level Indicator

Uplift Pressure Measurement

Uplift Pressure Pipe & Head Assembly Unit
Water Seepage Monitoring

Settlements

Base Plate Settlement System
Magnetic Settlement Gauge
Surface Settlement Point

Pressure Cells

Vibrating Wire Earth/Soil Pressure Cells
Vibrating Wire Concrete Pressure Cells
Vibrating Wire Shot Crete - Stress Cells

Strain Gauges

Vibrating Wire Surface Mountable Strain Gauges
Vibrating Wire Embedment Type Strain Gauge
Vibrating Wire Sister Bar Strain Meter

Extensometer

Single & Multipoint Bore Hole Extensometer
Triaxial Joint Meter – Vibrating Wire Type
Vibrating Wire Joint Meter/Crack Meter/Displacement

Load Cells

Vibrating Wire Center Hole Load Cell
Temperature Sensors

Digital Inclinator

Digital Inclinator System
Inclinometer Casings
In-Place Inclinometer

Pendulums

Normal / Inverted Pendulum
Automatic Pendulum X-Y Co-ordinator
Portable Tiltmeter
Vibrating Wire Type Tilt Meter

Level Recorder / Monitoring Software

Automatic Water Level Recorder (AWLR) / Piezometer

Readout Unit

Digital Readout Unit
Data Logger
Real Time Monitoring Software - ARMS

Geodetic Target

Bi-Reflex Target
Reflector Target
Prism / Mini Prism Target
Mechanical Crack Meter
Pavement/Building Settlement Point
Tape Extensometer
Pull Out Apparatus
EL Beam Sensors
Automatic Weather Station
Cable - Splicing Kit
Junction cum Switch Box
Strong Motion Accelerograph (SMA)
Blast Vibration Recorder
Cables

Note : The following instruments can also be supplied on request.

1. V Wire Instrumentated Rock Bolt : 4-6-12 m depth
2. V Wire Uniaxial/Biaxial Bore Hole Stress meter (for 38 / 58 mm dia bore holes)
3. V Wire liquid settlement cell / measuring systems
4. Flat Jack system, can be supplied in different shape / sizes against specific requirement

BeanAir

IIOT

STRUCTURAL HEALTH MONITORING

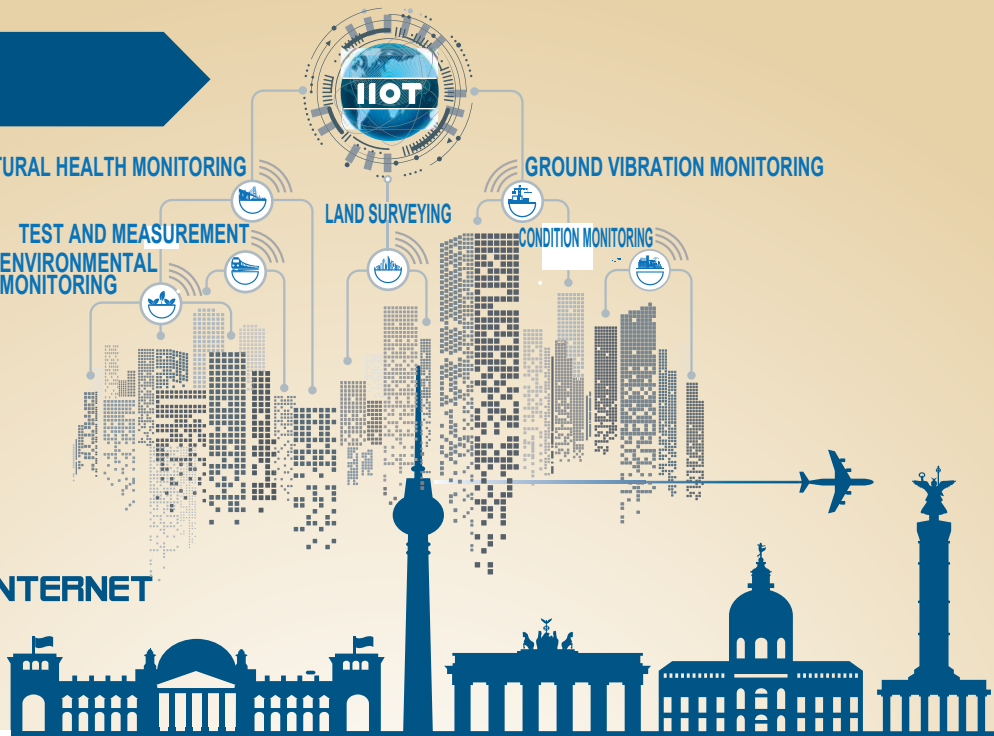
GROUND VIBRATION MONITORING

TEST AND MEASUREMENT
ENVIRONMENTAL
MONITORING

LAND SURVEYING

CONDITION MONITORING

READY FOR
INDUSTRIAL INTERNET
OF THINGS ?



MADE
IN
GERMANY

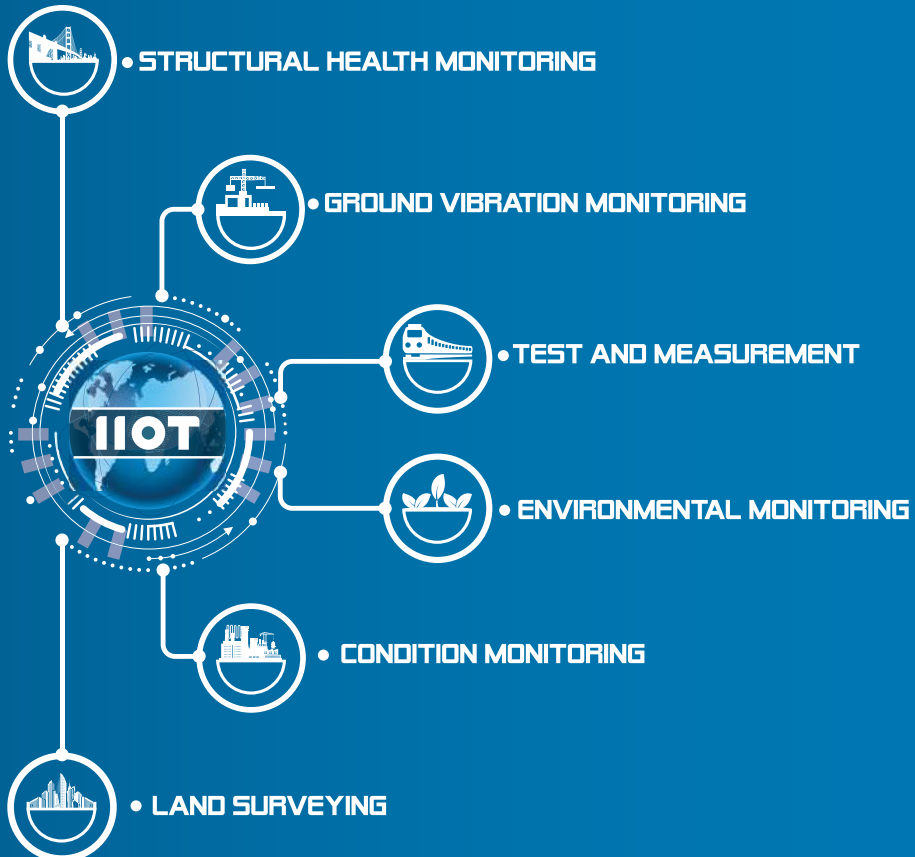
Wilow

2.4
GHz

WIFI AND 2.4GHz WIRELESS IIOT SENSORS

BeanAir

RETHINKING SENSING TECHNOLOGY



APPLICATIONS



GROUND VIBRATION MONITORING

Monitoring and control of ground and structural vibrations provide the rational to select measures for prevention or mitigation of vibration problems.

Discover how our wireless vibration sensors can provide a great flexibility in terms of deployment and performances.

STRUCTURAL HEALTH MONITORING

The recent developments in sensor technology, especially when wireless technology is considered, have opened up new gates in terms of health monitoring and preemptive fault detection.

BeanAir®'s wireless sensor technology offers great reliability, versatility, maintainability and easy to deploy technology Offer



ENVIRONMENTAL MONITORING

Beanair provides a wireless IIOT sensors system perfectly adapted to any environmental need:

- Autonomous wireless sensors (ultra low battery consumption with an autonomy than can go up to 7 years)
- Various information transmission protocols
- Data acquisition and storage device
- Wireless IIOT sensors supervision and monitoring software Monitoring

CONDITION MONITORING

SURVEYING BeanAir® offers the ideal solution to your needs in terms of measurement and instrumentation to improve equipment energy efficiency and get better knowledge about equipment availability.



LAND SURVEYING

Surveying and land surveying is the measurement and mapping of our surrounding environment using mathematics, specialized technology and equipment.

Discover how Beanair provides a field-proven and cost-effective wireless IIOT sensors for land surveying.

TEST AND MEASUREMENT

Offer a True Flexibility to your Testbench !

BeanAir technology offers solutions for rolling stock, naval and aeronautic manufacturer in terms of test and measurement, aiming at reducing costs related to test bench



loadsensing^w

WORLDSENSING

WIRELESS MONITORING SYSTEM

THE CONNECTED INFRASTRUCTURE SOLUTION MONITORING HOW STRUCTURES EVOLVE

Loadsensing is a data acquisition and monitoring system which combines state-of-the-art wireless monitoring and advanced software tools. It is widely recognized as the leading solution for connecting and monitoring infrastructures in remote locations.

Loadsensing devices are battery-powered and equipped with long-range, low-power wide area network (LPWA) radio communications and are compatible with a wide range of geotechnical sensors. The software suite is web-based and facilitates real-time data capture and analytics. It is also possible to set automatic alarms to make operations safer.

Mining and construction companies and operators of bridges, tunnels, dams, railways and many other inaccessible assets can now work with reliable data. Having access to this information and real-time insights enables operators to anticipate needs, manage their workforce, diminish risks, and even prevent disasters.

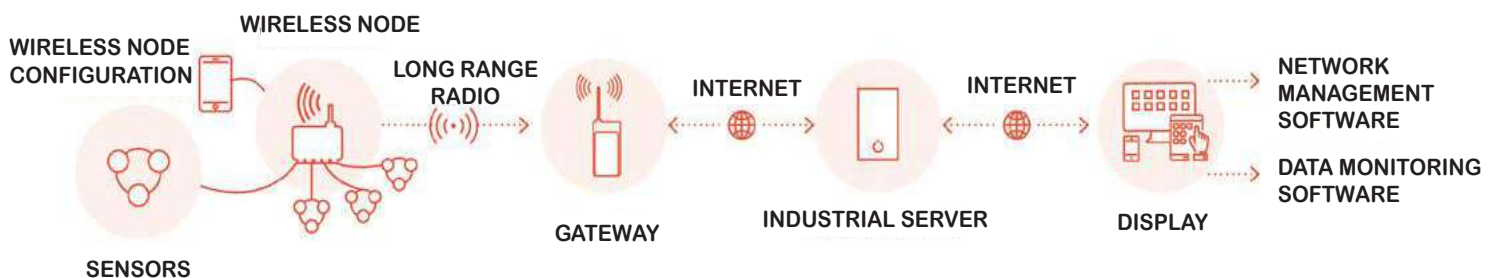
FEATURES

- Long-range communication of over 9 miles / 15km
- Truly low-power, 10 years of unattended runtime
- Wireless LPWA communication
- Supports most structural and geotechnical sensors (vibrating wire, digital, analog)
- Wireless tiltmeter
- Integrated alarm system
- User-friendly web software

BENEFITS

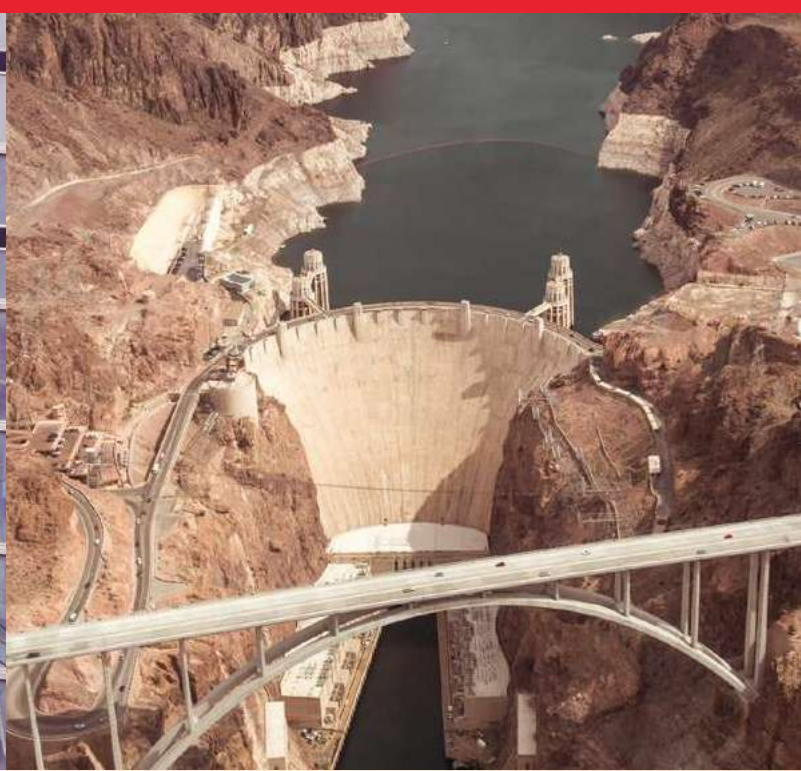
- Leverage already formatted data to optimize operations
- Remotely monitor hard-to-access infrastructures
- Cover a wide area with geotechnical sensors
- Easily add sensors to extend measurement range
- Save resources through fast implementation
- Decrease costs through easy maintenance
- Diminish risks and make operations safer

HOW IT WORKS



Operational Intelligence
for Mines and Industrial Companies

Worldsensing is not only among the best in the world at connecting distributed infrastructures with smart devices, we also know how to extract intelligence from collected data to transform operations. Our software solutions combine location intelligence with infrastructure monitoring.



CONFIGURATION APP

DLOG APP

Simple and fast connection to wireless node

Runs on Android devices

Easy sensor configuration: ID, sampling rate, frequency sweep, interface type, etc

Checks radio signal coverage

Records coordinates (GPS)

Downloads data from wireless node and sends by e-mail or saves it on the Android device

Takes current reading

Updates wireless node firmware



GATEWAY

BASE STATION

ISM Sub 1 GHz band, sensitivity: down to -137 dBm

Detachable omnidirectional ½ dipole

Integrated GPS antenna

GNSS High Sensitivity GPS module

POWER

Power supply: 48 V DC PoE

Nominal: 3 Watts

DC power supply (ex.: solar panel use): 11 to 30 Volts

MECHANICAL

Size: 210 x 310 x 170 mm, including mounting kit

Weight: 2 kg including mounting kit

IP67 rating

Operating range: -20 to + 60 °C

NETWORK INTERFACES

10/100 Ethernet WAN (RJ45 PoE)

Integrated 3G Modem & Antenna (HSDPA, EDGE, GPRS) quad band

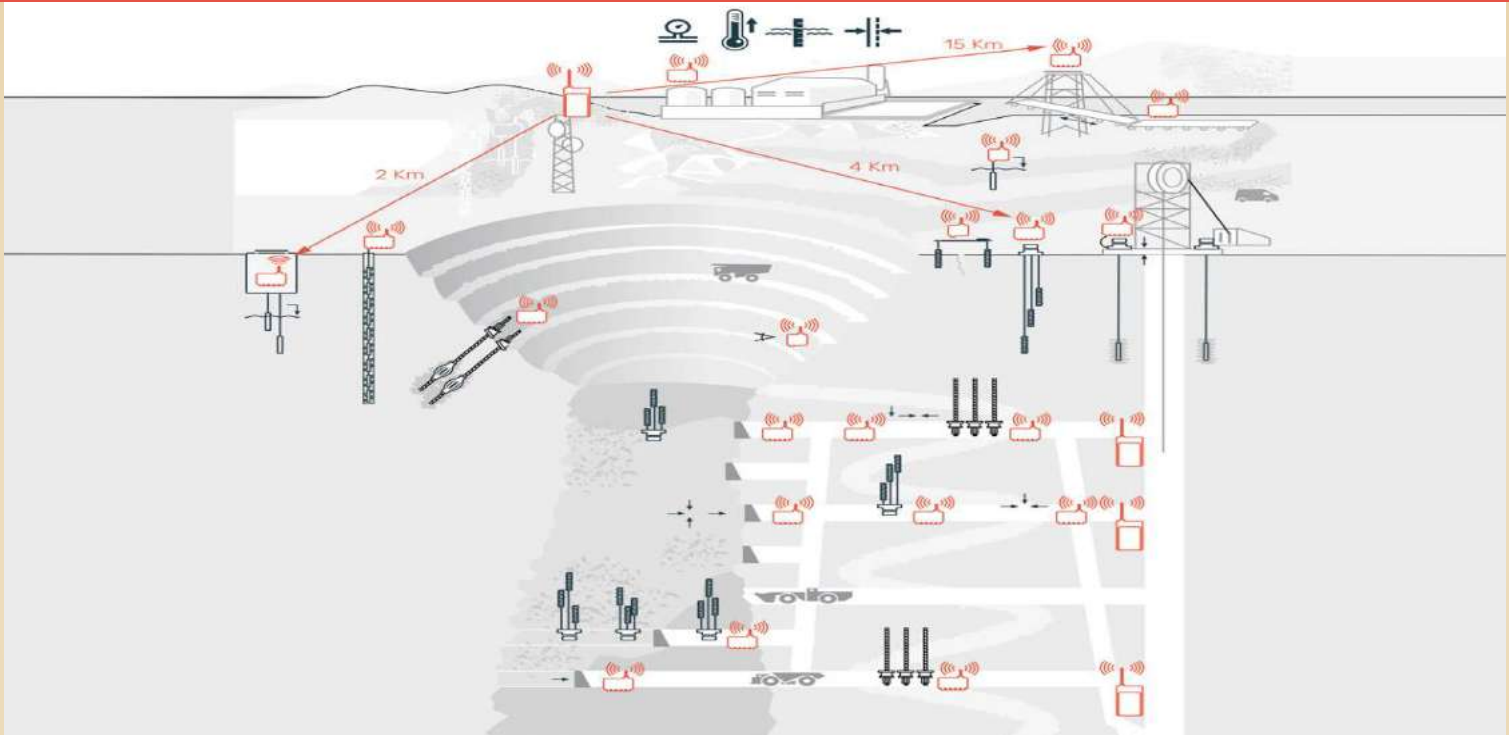
LS gateways:

868 MHz ISM band
915 MHz FCC ISM band
915-928 MHz ISM band

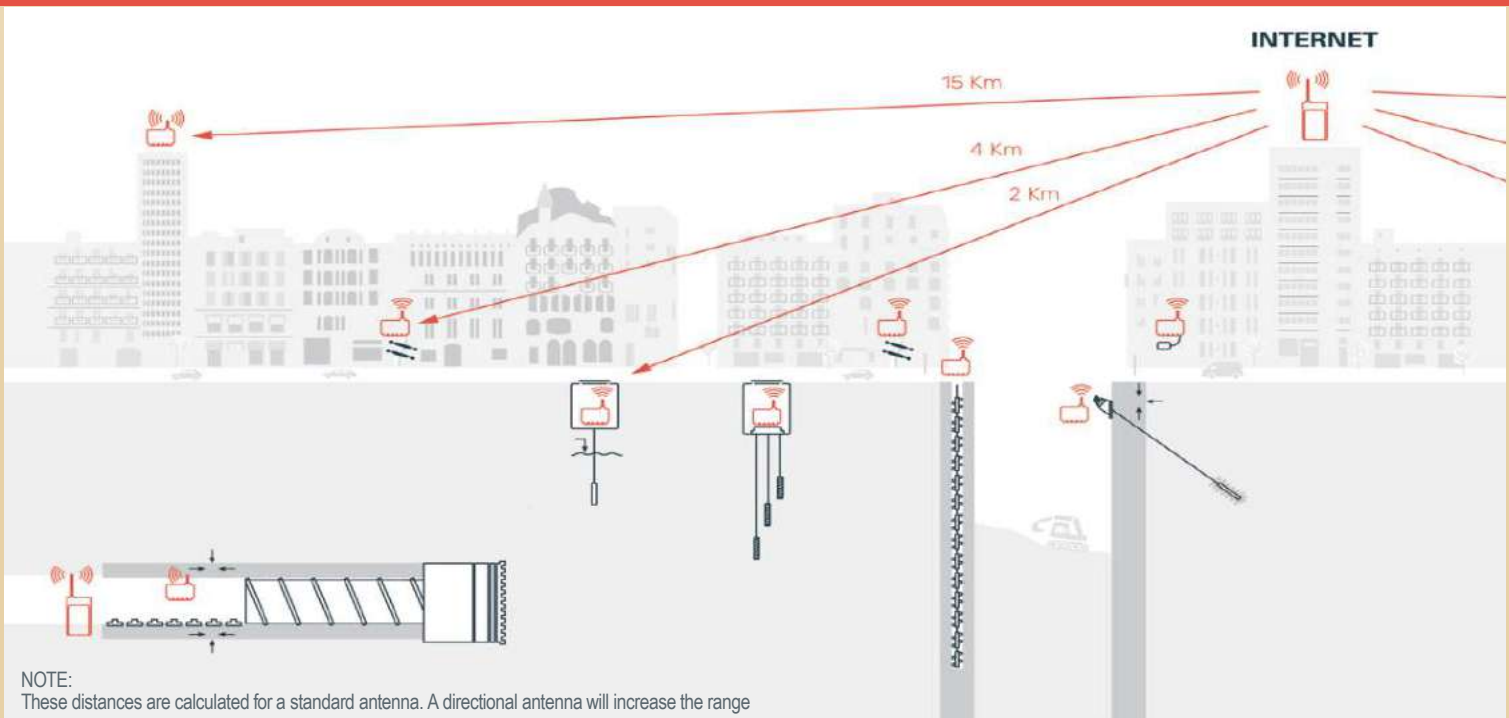




HOW IT WORKS IN MINES



HOW IT WORKS IN CITIES



NOTE:
These distances are calculated for a standard antenna. A directional antenna will increase the range

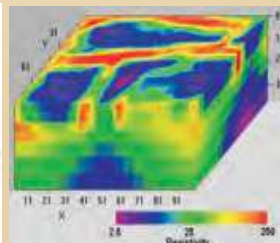
Advance Civil Engineering & Research Equipments

Advanced Asphalt-Bitumen Engineering Instruments

Equipment	Application
Dynamic Triaxial Testing	Dynamic Triaxial Testing uses either electro mechanical, Systems hydraulic or pneumatic actuation to suit your application in terms of load and frequency.
Universal Testing Machines	To test tensile stress and compressive strength of materials, components and structures.
Hamburg Wheel Tracker	To evaluate the resistance to rutting and moisture susceptibility of asphalt mixtures.
TSRST Apparatus, (Thermal Stress Restrained Specimen Test Equipment)	To determine the low temperature cracking susceptibility of asphalt concrete
Texas Overlay Tester	To simulate the expansion and contraction movements that occur in the vicinity of joints or cracks and which result in reflection cracking in overlays.
Gyratory Compactor	For Asphalt Mix design
Roller Compactor	Dry granulation process used to make coarse granules prior to final compression
Adhesion-Cohesion-Slurry	For adhesion property of aggregates to bitumen and Tester determining the proper consistency (mix design) for a slurry seal mixture
Rolling Thin Film Oven	To measure the effect of heat and air on a moving film of semisolid asphalt binder
AMPT (Asphalt Mixture Performance Testing)	To evaluate asphalt mixture properties to assess potential performance
Nuclear Density Gauges	To provide density and moisture measurements for construction industry and for mining and archaeology.
Moisture Monitoring Probe	To determine Soil Moisture
Rheometer	To measure the way in which a liquid, suspension or slurry flows in response to applied forces
Binder Extraction / Centrifuge Extractors	For determining bitumen percentage in Bitumen paving mixtures
Binder Recovery Equipment	To recover bitumen from a solvent
Marshall Testing Compactors	Automatic compactor for Bituminous Mixes
Asphalt Mixing	Laboratory mixing of Bituminous materials
Pavement Intensity Test Apparatus	To test the compressive strength, indirect intensity test and bearing ratio of soil and pavement material.
Wheel Rut Shaper	Used to prepare the bitumen specimen for wheel rut testing used in research and road construction

Earth Science Instruments and Software

Geophysical Application Instruments, Earth Resistivity, Electrical Imaging, Exploration Seismographs, Seismic Cross Hole, Uphole, Downhole Seismic, Refraction, Reflection Seismic



Non-Destructive Testing, Utility and Pipeline Testing

High-quality portable testing instruments for the non-destructive testing of material properties of metal, concrete, rock, paper and composites.

Concrete Test Hammer

- To measure strength of Concrete or Rock.
- Available in different models, for different impact energies - Original Schmidt, Silver Schmidt, Digi Schmidt



Moisture and Corrosion Analysis

- Investigation of Reinforced Concrete
- Identify / monitor moisture in Concrete
- Measure Electrical Resistivity of Concrete



Cover Meter, Rebar Detection, Permeability Testing

- Assessment of the concrete cover using a cover meter
- Rebar detection – location of rebar's beneath the Concrete surface
- Analysis of the air permeability of the cover concrete by a non - destructive method.



Ultrasonic testing of Concrete

- Ultrasonic pulse velocity (UPV) test instrument to examine the quality of concrete and other materials such as rock, wood and ceramics.
- Path length measurement, perpendicular crack depth measurement and surface velocity measurement.



Utility Location

GPR Utility Locator

- For locating buried utilities made of metallic and non-metallic materials.



GPR for concrete scanning and Inspection

- For inspection of concrete structure such as floors, walls, slabs for detection of metallic and non-metallic objects and features e.g. rebar, cables, metallic and non-metallic conduits and pipes, voids, measurement of slab thickness.



Stand-Alone Seismograph

- Designed for all seismic surveys.
- Optimized for near surface geophysics
- Groundwater and salinity studies
- Mineral exploration
- Environmental Investigation
- Geotechnical Surveys



Cable and Pipe Locators

- Construction industry
- Water and Pipeline industry
- Power Industry
- Telecom Industry



Pipeline Line Inspection

Pipeline Inspection

- Portable crawler system
- Ultra-bright LEDs and high resolution camera
- Fully submersed operation, water resistant
- Cable length from 100m to 250m



Flow and Viscosity

- Measurement of fluid rheology's under high pressure and temperatures.
- Cement analysis – performs static gel strength tests on cement slurry samples.
- Ultrasonic cement analyzer system – Non-destructive method for determining the relative strength development of a cement sample under down pole temperature and pressure condition.



Civil Engineering Products

Aggregate Testing

Pendulum Skid Resistance Tester

Dual Action Sieve Shaker

Asphalt Compaction

Pneumatic Steel Roller Compactor

Hydraulic Standard Roller Compactor

Balanced Mix Design

Hamburg Wheel Tracker

Balanced Mix Frame 9500

Bending Beam Testing

Stand Alone Four Point Bending Beam

Two Point Trapezoidal Bending Beam

Large Hydraulic Four Point Bending Machine

Bitumen Laboratory Testing

Vialit Cohesion Pendulum

Indentation Testing Machine

Data Acquisition

cDAC

Dimension

Hveem Equipment

Kneading Compactor

Electronic Moisture Exudation Indicators

Sample Preparation

Core Drilling Equipment

Core and Beam Saws

Thermo-regulated Mixers

Superpave Equipment

Rolling Thin Film Oven

Dynamic Shear Rheometer

Bending Beam Rheometer

Rotational Viscometer

Vacuum Degassing Oven

Pressure Aging Vessel

Thermal Cracking

Texas Overlay Tester

Asphalt Pavement Thermal Testing System

Universal Material Testing

Servo-Pneumatic Universal Testing Machine

Servo-Hydraulic Universal Testing Machine

Servo-Hydraulic Universal Testing Machine-100kN

Wheel Tracking

Dry Wheel Tracker - 1 & 2 arms

Auto Lift Arm ECO Wheel Tracker

Soil Mechanics Apparatus

Static Triaxial Testing

Dynamic Triaxial Testing

Shear Testing

Consolidation System

Environmental Temperature Control

Resonant Column

Unsaturated Soil Testing

Hollow Cylinder

Pressure and Volume Controllers

Software

Transducers and Load Cells

Pressure Aging Vessel (PAV4)

Designed to simulate in-service oxidative aging of asphalt binder by exposure to elevated temperatures in a pressurized environment.



Vacuum Degassing Oven (VDO Touch)

Designed to remove air bubbles created during the in-service oxidative aging of asphalt binder by the PAV.



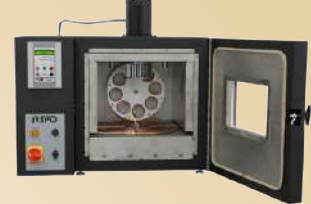
Rolling Thin Film Oven (RTFO)

Introducing Applied Test Systems (ATS) new RTFO! This updated, economical version features a rugged, powder-coated exterior, sealed high temp bearing, and accessible bottom tray for easy cleaning.



Rolling Thin Film Oven (RTFO Touch)

Designed to simulate short-term aging of asphalt binder according to ASTM D2872, AASHTO T240, EN 12607, Superpave, and California Test Method 346 test standards.



Bending Beam Rheometer 2S (BBR2S)

Engineered to perform flexural tests on asphalt binder/bitumen and similar specimens per ASTM D6648, BS EN 14771, and AASHTO T313.



Bending Beam Rheometer 3 (BBR3)

Designed to perform flexural tests on asphalt binder and similar specimens per AASHTO T 313, AASHTO TP 87, ASTM D6648, and BS EN 14771 specifications as part of the PG grading system according to Superpave.



Structural Pavement Evaluation

Pavement engineers worldwide should have the best tools available to understand and model pavements. The tools can be used to assess pavements under different loading conditions enabling the engineer to identify the correct mode of failure and the optimum maintenance alternative

- Light Weight Deflectometer (LWD)
- Falling Weight Deflectometer (FWD)
- Fast Falling Weight Deflectometer (FFWD)
- Heavy Weight Deflectometer (HWD)
- Truck Mounted Deflectometer (TMD)

Functional Pavement Evaluation

Range of tools for determining the ride and surface quality of the pavements, which can be used for evaluating road or airports.

Road Surface Profilometer (RSP), designed to measure the pavement profile, International Roughness Index (IRI), Ride Number (RN) and rutting of pavements. The functionality of the RSP has been expanded to include the collection of macrotexture, crossfall, gradient and radius of curvature and Right of Way images.

- Road Surface Profiler (RSP MK-III)
- Road Surface Profiler (RSP MK-IV)
- Multi Functional Vehicle (MFV)

Pavement Friction Testing

Determining and maintaining acceptable pavement friction condition is highly important to airports and roads authorities. Low friction values may lead to fatal accidents that pavement engineers work diligently to avoid. Pavement engineers worldwide should have the best tools available to understand and model pavements. The tools can be used to assess pavements under different loading conditions enabling the engineer to identify the correct mode of failure and the optimum maintenance alternative

Guideline Geo is a world-leader in geophysics and geo-technology offering sensors, software, services and support necessary to map and visualize the subsurface.

We provide complete solutions and applications expertise around the globe in four key growth areas: detecting and mapping groundwater, environmental and geological risk assessments, infrastructure site investigations and mineral exploration.

In 2012 Guideline Geo consolidated its two subsidiaries ABEM and MALÅ to offer unparalleled technical expertise, innovative solutions and world-leading global brands.

Complete Product Range

ABEM



ABEM Terrameter SAS 1000

The SAS 1000 is a compact resistivity meter designed as a robust solution suitable for applications including groundwater prospecting and IP measurements



ABEM Terrameter LS 2

A new scalable resistivity/IP meter, ensuring a return of investment no matter if starting with a basic or advanced system



ABEM Terraloc Pro 2

A versatile seismograph that can be used with any type of seismic accessory for every possible application



ABEM WalkTEM

A powerful (transient electromagnetic) tool for surveying in the geological near-surface. Available with a new booster option for deeper soundings

MALÅ



MALÅ MIRA HDR

The MIRA HDR is a cost-effective 3D GPR array, optimized for mapping large areas to locate buried objects and artefacts.



MALÅ GeoDrone 80

MALÅ GeoDrone 80 is the cutting-edge solution for unmanned surveying in areas that are dangerous or are hard to reach.



MALÅ Easy Locator Pro WideRange HDR

The widest GPR antenna bandwidth available for utility detection on the market with the WideRange HDR GPR



MALÅ Easy Locator Pro

The professional's choice for utility mapping, with added post-processing and positioning features



MALÅ Easy Locator HDR

Cost-effective, compact all-in-one utility locator GPR solution for utility detection



MALÅ GroundExplorer (GX)

A flexible GPR solution with a wide range of antenna options and measuring devices, offering exceptional range and resolution



MALÅ MIRA

MALÅ 3D Imaging Radar Array (MIRA), is a one-pass 3D system providing a cost-effective solution for large-scale mapping and subsurface object identification



MALÅ Concrete Explorer (CX)

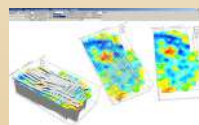
ConcreteExplorer is an easy-to-use GPR system designed for concrete investigations and non-destructive imaging of man-made structures

SOFTWARE



MALÅ ProEx

ProEx is fully compatible with a broad range of MALÅ GPR antennas, and offers a flexible and versatile GPR solution



GPR-SLICE Software

GPR-SLICE is a GPR imaging software designed for the creation of 2D/3D images for use in a range of geotechnical, engineering, and archaeological applications.



MALÅ Object Mapper 2018

Object Mapper is an easy-to-use visualization utility mapping software for processing, analysis, and interpretation of utility detection GPR data



AGS Inversion Software

The processing and inversion software developed by Aarhus GeoSoftware is compatible with various electrical and electromagnetic geophysical methods

Preiser covers all aspects of coal and coke testing including preparation, separation & analysis. The company sells in 90+ Countries and has been selling in Africa for 20+ Years.

Their customer success includes:
 5 of the Top 10 Steelmakers
 9 of the Top 10 Coal Mines
 8 of the Top 10 Commercial Labs

Z91-2290-81 Air Drying Oven



The Preiser Air Drying Oven in accordance with ASTM D2013.

Model 401XL Crusher



Model 401XL has a capacity of 4000 pounds per hour using a 3/8" diameter

Model 502XL Pulverizer



Holmes Pulverizer Model 502XL has a capacity of 400 grams of coal per minute using a screen with 0.024" diameter

Holmes Model 70XL Riffle



Model #70XL is a totally enclosed, floor model sample riffle

Rotary Sample Divider



The Preiser Rotary Sample Divider (RSD) provides fast and accurate sub-division of coal, minerals, ash and other granular samples.

Holmes Model 1400 Sample Cutting Station



The Model 1400 sample cutting station accepts crushed sample feed from a Holmes crusher.

Model PAF 2014 Ash Fusion System



The Preiser Scientific Ash Fusion System is designed in accordance with ASTM Standard

Coke Drum Tumbler Tester, Double Drum



The Preiser Model 500 Tumbler is designed and manufactured to comply with ASTM D-3402 Standard

Free Swelling Index System, Complete



Used for the determination of the Free Swelling Index of coal by the electric furnace method as designated by ASTM Standard D-720.

Hardgrove Grindability Machine



Preiser Scientific's Grindability Tester is designed specifically for the determination of the relative "hardness" or abrasive potential of coal.

Model 100 Moisture Oven



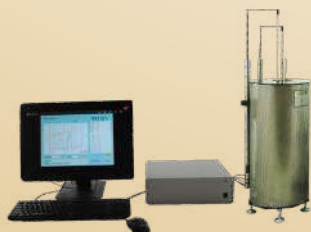
The Preiser Model 100 Moisture Oven is designed as per ASTM Standard D3173.

Preiser Gieseler Plastometer



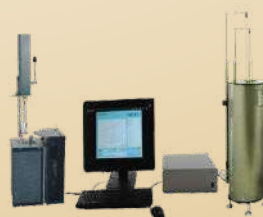
Preiser has enhanced the market leading Plastometer series of test instruments, used to determine the fluidity of coking coal, to the next level of usability.

Preiser Dilatometer



Preiser Dilatometer series of test instruments is used to determine expansion and contraction characteristics of coal, to the next level of usability

Preiser Plastometer / Dilatometer Combination



Preiser Plastometer series of test instruments is used to determine the fluidity of coking coal.

insmart Systems has been engineering, manufacturing, and supplying high quality equipment to customers across the globe since 1993.

Insmart's Industrial solutions include

• Quality Assurance and Analysis Equipment for

Cement, Coal, Iron and Steel, Aluminum, Copper, Glass, Ceramic Plants, Educational Institutions, Advanced Research labs

• Product Application Areas

Geology, Mineralogy, Metallurgy, Elemental Analysis, Power generation, Defense Research Labs, Nuclear Science, Bio and Pharma Educational Institutions

• New Developments

- Fully automated container based Robotic lab for cement and iron steel plant
- Turnkey QC Laboratory setups
- BOT Solutions for Onsite Coal Processing
- Mechanized Third party sample collection systems
- Fully Automated Container Labs for Coal
- Automatic Vibratory Cup Mill & Pellet Press
- Automatic Surface polishing machine

- | | | |
|---|--|---|
| <ul style="list-style-type: none"> • Jaw Crushers • Roll Crusher • Planetary Ball Mill • Rod Mill • Disc Mill • Hammer Mill • Cross Belt Clean Radial Sweep Sample Collection System • Double Deck Vibratory Screen • Hot & Cold Isostatic Press | <ul style="list-style-type: none"> • Bond's Work Index Ball Mill • Bond's Work Index Rod Mill • Ty-Lab Sieve shaker • Ro-Tap Sieve Shaker • Laboratory Sieve Shaker • Wet Sieve Analysis unit • Riffle Sample Splitter • Mineral Jig • Concentrating Table • Density Separator | <ul style="list-style-type: none"> • Mineral Separator • Cyclone test Rig & Hydro Cyclones • Spiral Test Rig & Spirals • Davis Tube Tester • Electromagnetic Drum Separator (WET) • Electromagnetic Drum Separator (DRY) • Floatation Cell • Planetary Sample Divider |
|---|--|---|



Planetary Ball Mill

Disc Mill

Hammer Mill

Vibratory Screen

Roll Crusher

Ball Mill



Bond's Work Index Ball Mill

Ro-Tap Sieve Shaker

Mineral Jig

Floatex Density Separator

Mineral Separator

Planetary Sample Divider

AIPL is a system integrator for setting up of the most advanced and innovative State of the Art Centre of Excellence – providing system and solution for higher technical education.

AIPL's objective is to bring in leading edge technologies from the best in the world and integrate it with our outstanding service to our customers – conducting with uncompromising integrity, honesty and respect.

We assist you in designing Laboratory, suggest and recommend curriculum as per world best universities, supply, install all equipments and training the faculty members.

Our mission is EMPLOYABILITY TO ALL

We are committed to inculcating a culture of **INNOVATION**, encouraging **RESEARCH, ENTREPRENERSHIP** Pathways and developing **FUTURISTIC SOLUTIONS** in **HIGHER EDUCATION**.

WHY AIPL

OUR PHILOSOPHY

Bringing success to our Customers, Partners and Employees is our Mission

OUR TEAM

Over 3 decades of Engineering experience, and a team with over a decade of international footprints and knowledge. Pioneers in innovative instrumentation solutions.

We are a professional team that is always willing to satisfy your needs and expectations

OUR HISTORY

We have successfully implemented projects in over 25 countries, established over 10 full fledged laboratories across Africa, Middle East, ASEAN and SAARC Countries.

ONE STOP SOLUTION

Worlds largest one stop source for systems and solution in Civil Engineering, Material testing and Technical Education

APPLICATION AND SOLUTION ORIENTED

Based on our core competencies and a network of collaborative partners, we are able to develop and propose a range of application oriented solutions. Our knowledge in Civil Engineering, Material Testing, Research oriented technologies Instruments and Technical Education, coupled with qualified partners enable us to develop collaborative solutions and customised projects.

CUSTOMER ORIENTED

Reliability and efficiency are your targets. We know you require the same for your instruments: Providing Comprehensive solutions, performance and assurance, tailor-made to the challenges of your demanding world.

OUR IDEOLOGY

Responsiveness is the key to offer the best level of services.

AIPL relies on a powerful network of subsidiaries, offices, resellers, maintenance centers and qualified partners.

They are the first steps of efficiency.

Our customers should not have to wait for an answer.

Our expertise is at their disposal – anywhere, anytime.

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