



The Geotechnical & Highway Consultant & Contractors

About SAS:

SAS is one of the leading Geotechnical & transportation engineering consultant & Contractor. Whether it is in Ground Engineering as Design & Built Contractor or Project Management. Trust, is hard-earned through our proven expertise, our depth of global experience and our commitment to stay one step ahead. SAS services are used across the entire construction spectrum from industrial, commercial and housing projects to infrastructure construction for dams, tunnels, transportation and land filling. SAS is also a specialist in rehabilitation works and the protection of soils and ground water from environmental damage.

Our Services:

• Soil Investigation

Field Tests

- ✓ Drilling & Sampling
- ✓ Standard Penetration Test
- ✓ Static Cone Penetration Test
- ✓ Dynamic Cone Penetration Test
- ✓ Plate Load Test
- ✓ Vane Shear Test
- ✓ Rapid Moisture content
- ✓ Field density

Laboratory Tests

- ✓ Sieve analysis
- ✓ Vane shear test
- ✓ Direct shear test
- ✓ Consolidation & Triaxial Test
- ✓ Permeability Test

• Pavement Investigation & testing

Field Tests

- ✓ On field soil & material sampling
- ✓ Field density
- ✓ CBR field evaluation

- ✓ Sub grade Geotechnical investigations for high embankments and bridge structures
- ✓ Benkelman beam deflection (BBD) tests for defining overlaying of existing roads.
- ✓ Traffic Survey & Condition survey
- ✓ Bridges span load testing.

Laboratory Tests

- ✓ Aggregate impact tests
- ✓ Aggregate los angels abrasion tests
- ✓ Specific gravity Tests
- ✓ Bitumen Mix Marshells Tests
- ✓ Bitumen softening point tests
- ✓ Bitumen Viscosity Tests
- ✓ Concrete mix Design & compression testing for Rigid pavements

• Construction Material Testing

- ✓ Bricks
- ✓ Bitumen
- ✓ Cement
- ✓ Fly Ash
- ✓ Concrete
- ✓ Soil
- ✓ Rock
- ✓ Salt Glazed Stoneware Pipes and Fittings
- ✓ Tiles
- ✓ Cube
- ✓ Aggregate(Coarse and Fine)

• Design & Project Management work's

Geotechnical Engineering

- ✓ Foundation Recommendations
- ✓ Slope stability Design & Project Management consultants for solutions
- ✓ Flexible Gabion retaining walls



- ✓ Reinforced Soil walls Design
- ✓ Seepage analysis & solutions
- ✓ Cut off wall design
- ✓ Ground improvement Design
- ✓ Geosynthetics Design
- ✓ Rock fall protection design



- Ground improvement contractor & Project Management services
 - ✓ Dynamic compaction
 - ✓ Stone columns
 - ✓ Vertical Drains
 - ✓ Semi rigid inclusions
 - ✓ Vacuum consolidation
 - ✓ Soil Mixing
 - ✓ Jet Grouting

Transportation Engineering Works

- ✓ Traffic study & Analysis
- ✓ Flexible & Rigid Pavement Design
- ✓ Alignment Design
- ✓ Feasibility & Detailed project Report of Roads
- ✓ Third Party Quality Inspection & material Testing of Roads & Highways



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