Geophysical and Stratification Analysis
- Electrical Resistivity Tests, vertical electric sounding, soil resistivity and seismic studies.
- Detection of underground utilities by pipeline locator & Ground Penetrating Radar (GPR).
- Soil stratification along the alignment and sampling.
- Laboratory tests, generation of subsoil stratification profile.
- Corrosion and Aggressivity Survey for cross country pipelines.
- Corrosion of concrete structures in marine environment.

Land Reclamation and Hydro-biological Study
- Extensive Investigation in low-lying submerged coastal areas for Topography, Hydrography, Analysis of bay water and soil for physical, chemical, biological and engineering properties.
- Limiting permissible ranges for organic loads, pesticide, toxic level, contaminants, biodegraded losses that influence the location, design and construction of shrimp farm.
- Soil permeability and rate of percolation.
- Stability of earth structures like bunds, canals, reservoirs and maximum use of local soil.
- Reclamation study, site grading, banking of ponds, channels, cyclone protection bunds.

Other services include Design Consultancy and Engineering Services
- GIS driven Software Development.
- Highway Engineering & Construction Supervision.
- Irrigation, Flood Control & Water Management.
- Cross Country Pipeline Transportation.
- Town Planning & Urban Development.
- Right of Use Acquisition & Permitting.
- Geotech, Soil Investigation and Foundation Engineering.
- Ground Water and Resistivity Surveys.
- Underwater Leak Detection and Turnkey Solutions.
- Traditional Data Conversion and Fusion.

Projects Executed include
- Nuclear and Thermal Power plants.
- Metros and Airports.
- Missile Launching Base.
- Oil/Gas pipelines.
- Tunnels, Highways and Expressways.
- Dams, Barrages and Canals.
- Refineries and Petro chemical Complexes.
- Major/Minor River Crossings for HDD.
- Steel and Industrial plants.
- Soil Contamination test.
- Water Supply and Sanitation.

SECON has completed the multidiscipline assignment in a meticulous and professional manner to our entire satisfaction within the stipulated time” - Defence Research & Development Organisation (DRDO).

GEOTECH ENGINEERING SERVICES
Our Expertise in Soil has Many Layers and Solutions

Design Consultancy and Geotech Engineering Services
- Foundation Design and Geotech Investigation.
- Slope Stability Analysis and Mitigation.
- Geological and Hydro-geological Appraisal.
- Geophysical and Stratification Analysis.
- Land Reclamation and Hydro-biological Study.

Investigation and Services
- Extensive Vertical, Horizontal and Inclined Drilling.
- Material and Pavement Investigation for Highways and Structures.
- Specialised Investigations, Testing and Sampling.
- Ground Water and Resistivity Surveys.
- Hydro-biological Investigation for Land Reclamation.
- In-house Lab Testing for Physical and Chemical Parameters.
- Aggressivity and Corrosion Survey.
- Engineering and Land Surveys.
- Detection of Underground Utilities using Ground Penetrating Radar (GPR).

Total Solution from a Single Window

GIS Driven Multidiscipline Design Consultancy.
SECON PRIVATE LIMITED (SECON) formerly SECON SURVEYS was established in the year 1981, initially to offer Survey & Investigation Services. Over the past 30 years, SECON has diversified and has grown into a Multi-Discipline GIS Driven Design Consultancy firm offering services both in India and Abroad.

SECON is an ISO 9001:2015 Certified Organisation with headquarters at Bangalore, regional offices at New Delhi, Mumbai, Vadodara, Bhopal, Hyderabad and overseas office in Tripoli (Libya), augment our range and reach.

SECON has executed projects to Government, Public and Private Sector Undertakings. Clientele also includes Multinational Companies.

SECON has an in-house Testing Laboratory which is NABL Accredited in accordance with the standard ISO/IEC/17025:2005 from Department of Science & Technology for Chemical and Mechanical testing with modern and latest equipments and instruments.

Geotech Investigation
Our capabilities in Geotechnical investigation and soil testing are well acclaimed in industry for infrastructure development. SECON is fully equipped to undertake boring and drilling by rotary and hydraulic rigs followed by comprehensive in-house testing report and recommendations.

SECON has over 300,000 meters of Geotechnical Investigation and Drilling experience.

Foundation Design and Geotech Investigation
- Design of open, well and pile foundations for bridges, buildings, structures, dams, barrages, cyclone bunds, missile launching sites, oil storage tanks and terminals etc.
- Site selection, specifications for geotechnical investigation plan, borehole location, depth, termination criteria, testing, recommendation and critical review of geotechnical report.
- Marine denudation, alluvial tidal deposition, erosive tidal action, jetties and dredging.
- Study and analysis of land slips, snow gallery, side hill cutting and failures.
- Ground improvements by sand piling, stone columns and soil replacement.
- Material and Density control, site grading and land filling for major earth works.
- Evaluation of dynamic soil constants, dynamic shear modulus, damping value, liquefaction potential.

Material Testing and Pavement Design
- Identification of quarry sources and testing of materials.
- Condition Survey (Benkelman beam, Bump Integrator, Trial pits etc).
- Detailed Design of Flexible and Rigid Pavements for Highways and Airports.
- Construction Supervision, Field Lab Testing and Quality Control including PMC.
- Concrete Mix Design.

Geotech Investigation
- Extensive vertical, horizontal, inclined drilling with hydraulic and rotary machines.
- Field and laboratory tests including Standard Penetration Test, Vane Shear Test, test pits, density, index properties, compaction, triaxial, direct shear, consolidation, sampling etc.
- Static and Cyclic Plate Load Test.
- Static, Dynamic and Piezo Cone Penetration, Permeability, Block Vibration Test.
- Pressuremeter, Cross Hole Seismic Test.

Geological and Hydro-geological Appraisal
- Geological mapping for land, sea coast and shore protection.
- Drilling in rock, blasting, core sampling and rock anchoring.
- Petrographic study of rock and its characteristics such as joint patterns, weathering, rock mass quality, faults, fissures and other identified parameters.
- Ground Water Table, yield and aquifer studies.

Geological and Hydro-geological Appraisal
- Hydraulic model study for bank protection, flood / tide level, scour depth etc.
- Bathymetry of river and sea bed, tidal studies and harmonic analysis.
- Particle gradation, evaluation of silt factor and scour depth.
- Surveillance for checking of Pipelines and under water structures like dams, Inwell shafts.