

## Terra Engineering Ltd.

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**YEAR ESTABLISHED:** 1957  
**AVERAGE WORK FORCE:** 70

**EXPORT SALES:** \$350,000  
**GROSS SALES:** \$4,300,000

### **OVERSEAS OFFICES:**

Terra Geotechnics Sdn. Bhd.  
Kuala Lumpur, Malaysia

**KEYWORDS:** Pavement evaluation; Pavement rehabilitation; Hot in-place asphalt recycling; Runways; Taxiways; Parking aprons; Materials engineering; Pavement engineering; Pavement condition evaluation; Pavement inventory; Quality assurance testing; Quality control testing; Pavement design; Pavement construction supervision and inspection; Geotechnical engineering; Soils investigation.

**PRODUCTS/SERVICES:** Geotechnical: Subsurface soils investigations; Foundation design; Slope stabilization; Excavation shoring design and inspection; Construction monitoring and testing. Environmental: Liability assessment studies for property acquisition; Contaminant fate and transport investigations involving subsurface soil and groundwater sampling and analysis; Development of remediation action plans; Regulatory permitting; Planning and permit compliance strategies; Waste contaminant designs including liners and barriers; and project cleanup management. Concrete materials: Seismic upgrade material investigation and review; Parkade, bridge, building and industrial facility material assessments; Preparation of repair strategies; Material specifications, contract document and tender preparation; Heavy duty pavement design; Specialty concrete and grout mix designs; Gravel pit assessments; Post-tension system review and inspection; Concrete construction inspection and testing. Asphalt Materials: Pavement surface condition and failure evaluations; Rehabilitation strategy recommendation; Life cycle and cost-benefit analyses; Specification preparation; Specialized consulting in the application of state-of-the-art, hot-in-place recycling and full depth pavement reclamation processes; Specialty mixture design and materials testing services; Asphalt cement rheological testing and assessments; Construction management, inspection and testing.

**EXPORT MARKETS OF INTEREST:** Thailand, Vietnam, Philippines, Malaysia, Southeast Asia, Caribbean, Mexico, Central and South America, and Mainland China.

**RECENT SUCCESSES:** Completed numerous airport runway pavement rehabilitations where state-of-the-art, hot-in-place asphalt recycling equipment has been successfully utilized. The company has world class expertise in this field, which includes providing complete preliminary pavement and materials analyses, all related laboratory testing of materials and recycled asphalt mixture design recommendations, together with on-site construction supervision and related laboratory quality control testing services. The firm has been involved in 8 of these types of applications on runway/taxiway (6 in B.C., 1 in Malaysia, 1 in Mexico) projects. The company has had involvement in over 30 major airport runway, taxiway, and aircraft parking apron, pavement construction, re-construction, and rehabilitation projects, including projects in Western Canada, Northwest Territories, Malaysia, Mexico, and Australia. With the assistance of Enterprise Malaysia Canada, the company signed a joint venture agreement with HSS Integrated Sdn. Bhd. of Kuala Lumpur (Petaling Jaya), Malaysia (March 1994) and have now commenced full-scale operations based in Kuala Lumpur. The firm has since secured numerous major projects, including providing engineering services on the new Sepang Airport.