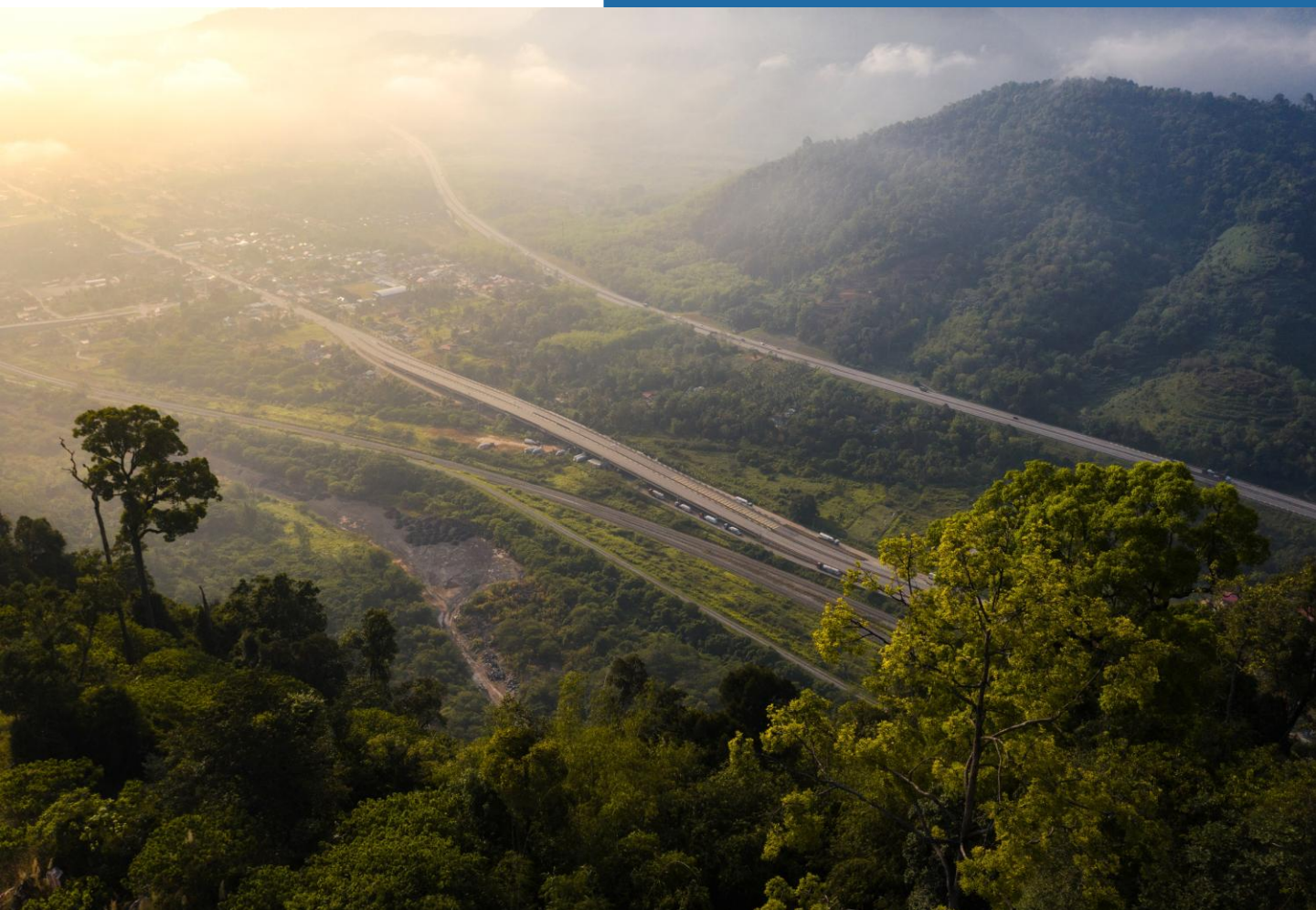


Engineering Modular Services Geotechnical



OPUS Consultants

Pioneering Sustainability Solutions and
Redefining the Boundaries of Innovation

Empowering Safety: Assess Today, Protect Tomorrow!

Construction of building structures and infrastructure facilities in hilly terrain inevitably results in cut and fill slopes. For example, due to stringent geometric requirements, the alignment of the North-South Expressway would need to cut through hilly terrain and traverse deep valley. These have resulted in more than six thousand slopes formed.

Successful practice of slope engineering requires basic understanding of general slope stability concepts, engineering geology principles, ground water conditions, geologic site exploration, soil and rock testing and interpretation, slope stability analysis, slope stabilisation methods, and instrumentation and monitoring. Slope failures are not uncommon in Malaysia. Factors contributing to slope failures include high rainfall intensity, highly complex geological formation comprising highly weathered soils, mixed metamorphic zones and granite hills, poor design and construction practice, and lack of maintenance

Our Services

With extensive and proven experience in the cutting-edge design of new and failed slopes for the North-South Expressway as well as other built structures, we provide the whole spectrum of services related to slope engineering.

Our services encompass the following areas:

- Design of Cut & Fill and Rock Slopes
- Geological Mapping and Exploration
- Investigation of Slope Failures
- Analysis and Design of Slope Stabilization Works
- Slope Management System
- Slope Inspection and Assessment

NKVE & NSE Rock Slope Strengthening Work



NSE Soil Nailing Treatment



Sustainable Practices for a Resilient Future

The major part of coastal areas in Malaysia is underlain by soft marine deposits of Quaternary Age. These deposits are normally characterized by low shear strength and high compressibility. With increase in economic development activities in the coastal areas, buildings and infrastructure facilities will have to be constructed over soft ground. Challenges often faced by the engineers due to construction on soft ground are bearing capacity and post construction settlement. Therefore, a fundamental understanding of soft ground behavior and soil mechanics concept coupled with experience in construction over soft ground is prerequisite for the successful practice of soft ground engineering.

Our Services

With strong understanding of fundamental soft ground behavior and extensive experience in the design and construction of structures over soft ground, we provide the whole spectrum services related to soft ground engineering.

Our services encompass the following areas:

- Site Investigation
- Design of Foundation and Excavation Support
- Alternative Design
- Embankment over Soft Ground
- Investigation of Distress
- Soft Ground Improvement Works

Why Choose OPUS

Our team consists of certified professionals with extensive experience providing innovative solutions tailored to your specific needs

We deliver integrated approach ensures that every aspect of our project is handled with care and prevision, resulting in seamless execution from concept to completion. Our dedication to quality is unwavering. We believes in fostering strong partnerships with all stakeholders, leading to better decision-making and successful outcomes



OPUS International (M) Berhad
198601004999 (154159-T)

OPUS Consultants (M) Sdn Bhd
199601033249 (405601-M)

Head Office

Level 6, Menara UEM,
Tower 1, Avenue 7,
The Horizon, Bangsar South City,
No.8 Jalan Kerinchi,
59200 Kuala Lumpur,
Malaysia.

Tel : +603 2725 6870

Fax : +603 2711 8016

**OPUS Consultants (Sarawak
Regional Office)**

Lot 349, 350, 351 & 352, Section 9,
Kuching Town Land District,
Jalan Rubber,
93400 Kuching, Sarawak,
Malaysia.

Tel : +6082 547 001

Fax : +6082 547 252

cs@opusbhd.com

Learn more about
OPUS Consultants at
www.edgentaopus.com

