Satkunaseelan

Position
Senior Project Manager

Year of birth
1956

Nationality
Malaysian

Language
English – Good
Bahasa Malaysia–Good
Tamil- Fair

Qualifications
M.Technology (Geotechnical)
B.Technology (Civil)

Key skills
Soft Clay Engineering.
Ground Treatment Design and Implementation.
Treatment of karstic limestone formation for tunneling purposes.

Profile
Over 8 years' experience with design consultants and 16 years' experience with contractors .Have been involved with ground improvement works in Malaysia, Indonesia, Thailand, Philippines' and Brunei. This includes a stint of about seven years on Tunnelling Projects as a Senior Engineer working with Karstic Limestone and Kenny Hill formations.

Experience and skills
MMC-Gamuda JV, Senior Manager.
(2012 – present)
MRT SSP and SBK Line. Malaysia
Directly responsible to evaluate and treat the Karstic Limestone formation and Kenny Hill formation to ensure a safe passage for the Tunnel Boring Machine. Evaluation of subsoil formation was done carrying out borehole, geophysical methods using resistivity and cross hole siesmic methods. Responsible for the excavation of shafts/stations for the launching of the TBM.

MMC-Gamuda JV, Senior Project Manager
(2007 – 2012)
Responsible for the timely completion within budget of the Electrified Double Tracking Project between Alor Setar and Arau. The works includes the construction of 35km of track formation, 7 land bridges, 9 pedestrian and motorcycle bridges ,11 river bridges and 4 station buildings.

MMC-Gamuda JV, Senior Geotechnical Engineer.
(2004 – 2007)
SMART Project
Directly responsible to evaluate and treat the Karstic Limestone formation and Kenny Hill formation to ensure a safe passage for the Tunnel Boring Machine. Evaluation of subsoil formation was done carrying out borehole, geophysical methods using resistivity and cross hole siesmic methods. Responsible for the excavation of shafts for the launching of the TBM.

DRB Hicom, Geotechnical Engineer
(2003 – 2004)
DoubleTracking Project : Ipoh to Rawang
Lead Geotechnical Enginer to ensure proper implementation of Ground Treatment Methods for the foundation of the Electrified Double Track Project from Ipoh to Rawang.

Revetment Systems International.
Geotechnical Engineer
(2001 – 2003)
Design Revetment Systems for hydraulic flow conditions for River and Marine Environment.

Techniques Geosystem Malaysia
General Manager
(1995 – 2001)
Design of Ground Treatment schemes for projects in Malaysia, Indonesia, Brunei, Philipines and Thailand . Ground treatment methods include borepiles, prefabricated Vertical drains and Vacumn Consolidation..

MInconsult and SSP (Consultants)
(1982 – 1995)
Graduate engineer with design office and responsibilities on civil Engineering projects.

Selected projects

Kuala Perlis Passenger Jetty. Kedah.
Design and supervision of the Construction of the reclaimed Passenger Jetty platform founded on soft marine clay extending perpendicular to the shore for an approximate distance of 2 km into the sea.

Kapar Power Station, Phase 2 (Coal Powered)
Foundation Design of the Power Station using Spun Piles(up to 50m long) founded on consolidating soft Marine Clay

Gunawan Steel Mill (Kerteh)
Foundation Design for the proposed Steel Mill in Kerteh.

Westport Phase 2
Geotechnical Assessment of Geotechnical Data to recommend foundation schemes for the Port facilities and berths

Supplementary information

SATKUNASEELAN AND POWERS, S., 2005. Geotechnical Aspect in SMART Project, Talk at Tunnelling and Underground Society Singapore (TUSS),

Publication of a technical paper in ASTM (American Society of Testing Materials) on the Laboratory Properties of Soft Marine Clay Reinforced with Woven and Non Woven Geotextile