

Electrified Double Track Railway (Gemas-Johor Bahru)

Malaysia

Keller overcame challenging worksites and interrupted work schedule to help create infrastructures that improve local communities. Excellent cooperation with client ensured worksite safety prior to mobilisation. The project required Keller to treat challenging soil properties with high variability of depth requirement.



The project

The Electrified Double Track (EDT) Gemas to Johor Bahru Rail Project complement the current Electrified Train Service (ETS) which connects the north and south of Peninsular Malaysia. Keller was appointed to install stone columns for the track's embankment along various worksites and variable soil properties.

The challenge

Additional soil investigation results using CPT indicated that the soil properties are highly variable and requiring deeper depths. Keller also faced challenging worksites with soft and unsafe working platforms, posing higher risks for operations. On top of that, some worksites were very close to residential areas that due to safety and noise concerns, works were instructed to stop at 7 pm daily, instead of our initial 24-hour work schedule.

The solution

Regular communication with client allowed us to inspect each site prior to mobilisation to ensure safety. Meticulous liaison also helped Keller to meet each depth requirement for the various sites. Keller also complied with authorities' recommendations and took measures to minimise impacts on residents, as the local community is Keller's priority. We were able to help create valuable infrastructure for the community, ahead of schedule and with excellent results.

Project facts

Owner(s)

Malaysia Ministry of Transport

Keller business unit(s)

Keller Malaysia Sdn Bhd

Main contractor(s)

CRCC-CREC-CCCC Consortium Sdn Bhd

Solutions

Bearing capacity / settlement control

Markets

Infrastructure

Techniques

Vibro stone columns

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