

**RETAINING WALL AT SETIA ALAM, SELANGOR**  
**SETIA ALAM, SELANGOR REGION, MALAYSIA**

Reinforced Soil Walls and Slope Reinforcement

**Problem**

The Ministry of Health is building a new Institute for Health System Research structure at Setia Alam lately. Several retaining wall structures are needed along the site and voluminous excavation is required in order to construct the building.

The amount of excessive soil due to heavy excavations on site incurs a lot of cost therefore our system which allows suitable soil to be used as a back fill managed to help the client in cost savings.

**Solution**

As a result, Terramesh and Green Terramesh are being selected for this project as the suitable soil can be use as the backfill. This reduces the amount of soil to be discarded on site thus contributing an extensive amount of cost savings.

Geogrids are being sandwiched between each tier as a reinforcement of the retaining structure. The highest wall constructed for this site was 12 metres in height along the stretch of 160 metres in length covering approximately 20,000 metre square. With the maximum gradient up to 70 degrees, the Green Terramesh was installed on the top slope of the retaining structure to enhance the aesthetic look which blends in with the environment.

**Client:** Ministry of Health Malaysia

**Designer / Consultant:** T & T Consultant

**Products used (Qty.)**

- Terramesh 20000 square meter
- Green Terramesh 20000 Square meter

**Date of construction:** 03/2016 - 03/2017



During Construction



During Construction



During Construction



After Completion