

ADDITIONAL NAPHTHA STORAGE TANK FB-1801E PT CHANDRA ASRI PETROCHEMICALS TBK – INDONESIA CONTROLLED MODULUS COLUMNS (CMC)

Category: Petrochemicals
Developer: PT. Chandra Asri Petrochemicals Tbk
Contractor: PT. Inti Karya Persada Teknik
Area / Quantity: 5541,76 m²
Year: 2014



PROJECT DESCRIPTION

The project consists in the construction of the new Naptha Storage Tank FB 1801E that is a part of current development of PT. Chandra Asri Petrochemicals Tbk, Anyer, Banten Province, Indonesia.

Soil improvement works were necessary before the construction of the tank foundation.

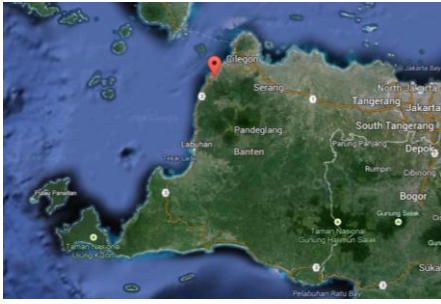


Figure 1: View of Additional Naphtha Storage Tank FB 1801E– Latest Photograph

SOIL CONDITION / GEOTECHNICAL PROBLEM

The worst soil condition based on cone penetration test showed a very soft clay layer with sandy gravel underlying a firm silty clay. The lowest layer is expected to be a founding level for CMC that consists of very dense sand.

The selection of the ground improvement technique to be used needed to comply with these factors:



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- Sensitivity towards noise and vibration
- Minimum environmental impacts
- Reduced quantity of spoil

MENARD SOLUTION

Menard implemented the technique Controlled Modulus Columns (CMC).



Figure 2: CMC Equipment - Liebherr LBR155 with Project Team Member

QUALITY CONTROL

A total of 5541,76 m² were improved using Controlled Modulus Columns (CMC).