

FOUNDATION ENGINEERING

New Mashreq Bank Headquarters Tower

Burj Khalifa District

COMMERCIAL - OFFICES • DIAPHRAGM WALL • GROUND ANCHORS • ROTARY BORED PILES • STRUTS



Client

Mashreq Bank

Consultant

WSP

Main Contractor

NSCC International

Location

Dubai, UAE

Start Date

March 2016

Completion Date

November 2016

Project Details

Diaphragm Wall

Perimeter : 278 m
Retained height : 15.4 - 21.7 m
Thickness of wall : 640/800 mm
Precast concrete planks : 282 nos.

Main Piles

14 nos. 1000 mm dia. piles, drilled to a depth of 17.5 m
18 nos. 1000 mm dia. piles, drilled to a depth of 21.5 m
16 nos. 1000 mm dia. piles, drilled to a depth of 26.5 m
95 nos. 1200 mm dia. piles, drilled to a depth of 40 m
Total length drilled : 4,856 LM

Concrete volume : 9,745 m³
Reinforcement steel : 1,562 tons
Excavation volume : 81,000 m³

Strutting system

2 levels of 750mm, 1050mm, 1250mm, 1450mm dia. struts
(78 nos. strut pipes)
Plunge columns & bracings