

FOUNDATION ENGINEERING

Doha Metro Green Line - Al Rayyan/ Al Qadeem Station

TRANSPORT - RAIL • CONTIGUOUS PILED WALLS • GROUND ANCHORS • ROCK NAILS • SHOTCRETING • WEEP HOLES



Client
Qatar Railways Company

Consultant
DB International GmbH

Main Contractor
Porr-SBG-HBK Joint Venture

Location
Doha, Qatar

Start Date
June 2014

Completion Date
May 2015

The Doha Metro Green Line will link Musheireb to the Al Rayyan Stadium. It will have a 16.6 km long twin-bored tunnel built at an average of 20 metres. The Al Rayyan/Al Qadeem station is one of the 8 stations along this line.

Project Details

Contiguous Piled Wall

Perimeter : 437.5 LM
Retained height : 8.75 m - 26.75 m
Shoring piles : 175 nos.
Pile details : 800 mm dia. @ 2.5 m c/c, 14.5 m long
Total length drilled : 3,926 LM

Ground Anchors : 421 nos., 4 strands
163 nos., 5 strands
184 nos., 6 strands
50 nos., 7 strands

Concrete volume : 1,567 m³
Reinforcement steel : 193.5 tons
Shotcreting works : 14,550 m²
Rock nails : 1,120 nos., 25mm dia., 10m long
Weep holes : 928 nos., 3" dia., 10m long