

Al Ain Water Transmission Scheme Pipeline Abu Dhabi UAE

1600mm Trunk Main for Al Ain Water Security



Project Need

To promote freshwater sustainability in Abu Dhabi Emirate in the United Arab Emirates, the local government defined a number of strategic plans to supply water to all regions that were threatened by water shortage. In order to reduce the load on existing water supply schemes, new alternatives for the Al Ain region (Showaihat and AlFujairah-AlAin Water Projects) were commissioned and put in operation few years back.

The Al Ain Water Transmission Scheme aims to deliver water from AlFujairah to AlAin via twin-1600 mm transmission pipelines. The pipe system is designed to include strategic water storage tanks and to serve as an emergency water back-up system to Al Ain and Abu Dhabi.

As part of this total Scheme Steel Mains was awarded with Contract N4381-Additional-VO2: EPC Works Al Ain Distribution Network - Lot C Contract N6821. Tap Off 9A (FWTS) to AL HAYER to Junction A – IP131, and Zakher to Mezyad (Lot P).

Steel Mains Sintakote® Steel Pipeline System was chosen by the appointed contractor, Societe Egyptienne D'Entreprises (SEDE) for our capability to provide a high pressure capability - low risk pipeline system solution.

Solution

Steel Mains was selected by the successful construction contractor, SEDE Contracting of Abu Dhabi to supply 13km of steel pipeline materials and fittings components. This consisted of 12.5km of 1626OD x 11.5mm Welded Ball & socket Joint (Grade 250) Steel (2.5MPa or 25 Bar); 106m of 1626OD x 12.7mm Welded Ball & Socket Joint MSCL Pipe (Grade 300 Steel); 188m of 1219OD x 12mm Welded Ball & Socket Joint MSCL Pipe (Grade 350 Steel) & 235m of 1016OD x 8mm Welded Ball & Socket Joint MSCL Pipe (Grade 350 Steel).

Steel Mains manufacturing and engineering experience together with our on ground support by our local agent Euromid and our pipeline installation training team all assisted to provide the necessary assurance for a pipe of this size to be a success. Steel Mains Welded Ball & Socket jointing system for steel pipelines was utilized. This innovation which allows fillet welding and simpler alignment of the joints during assembly thereby making on-site welding simpler in comparison with standard butt-welded joints thereby leading to reduced construction costs, led SEDE to selecting Steel Mains for this particular package.

Project: Al Ain Water Transmission Scheme Pipeline – Contract N4381 Additional

Principal: Abu Dhabi Transmission & Despatch Company - TRANSCO

Location: Al Ain – Emirate of Abu Dhabi -United Arab Emirates

Completion: 2010

Supplied: 13km of 1626OD, 1219OD & 1016OD Ball & Socket Welded Joint MSCL Pipe & Fittings in Grade 250 steel at 2.5MPa Operating pressure