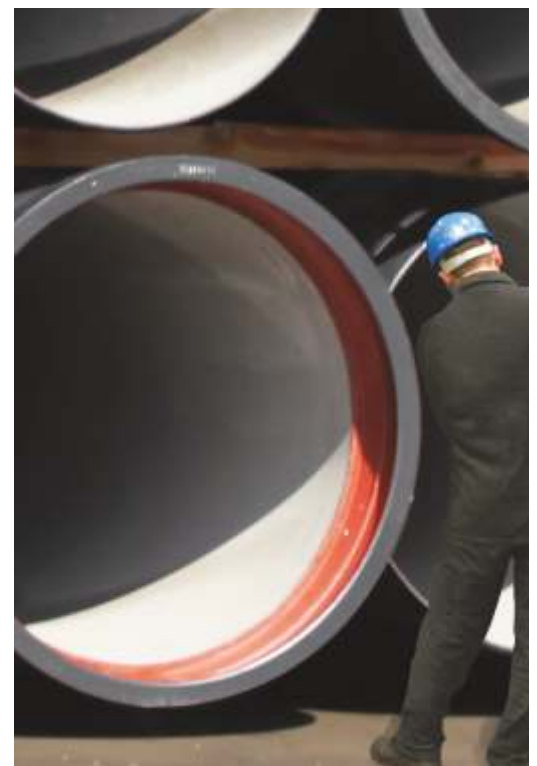




# MUSSAFAH - ABU DHABI WATER SUPPLY PROJECT



United Arab Emirates  
Abu Dhabi Emirate





**Employer** : ABU DHABI TRANSMISSION & DESPATCH COMPANY  
(TRANSCO)  
**Contract date** : 28.02.2010  
**Work completion date** : 28.02.2012  
**Project cost** : 209 105 079,88 US \$

**Lot M1A: Modification from the Pumping Station at Lot F up to Inter Connection, Lot M Pipeline, Lot M2 and M3 Feed and Control**

Complete hydraulic study (static and impact) for the common supply system, which is supplying water to Al Wathba direction and to Abu Dhabi island, by using the existing pumping station pumps, additional discharge line, which will be connected to Lot M2 and M3 pipeline by check-valve by-pass, additional by-pass to Al Wathba main discharge pipe, including the required piping additional discharge section surge tank (provisional), suction s part new diaphragm type surge tank, new hypo-chlorination dosage pumps, new injection and sampling mechanism, new modified I&C system, PLC/SCADA control system for the pipeline, RTU and SDH equipment along Lot M2 and M3 pipeline, commissioning of the entire SCADA system including pipeline fiber optic cable, pipeline leak detecting system along the pipeline, load distribution center (LDC) interface and inter connection to the Lot D pumping station existing control systems.

**Lot M2: DN1600 Ductile Iron PipeLine from Lot F Pumping Station at Mussafah to Mussafah Intersection**

Approximately 13.8 km long DN1600 ductile iron pipeline construction from Lot F pumping station at Mussafah up to Mussafah intersection including 2 x DN900 ductile iron pipeline connection, connecting Umm Al Nar pumping station to unit IV pumping station, and double spared fiber optic cable laying along the pipe line route.

**Lot M3: DN1600 Ductile Iron PipeLine from Mussafah Intersection to Abu Dhabi**

Approximately 16.7 km DN1600 ductile iron pipeline construction from Mussafah intersection to Abu Dhabi, up to IP135, including Maqta channel crossing with 2 x DN1200 C.S. pipeline (2x600) by using DN1400 (174 m) short line and directional boring (HDD) method, and double spared fiber optic cable laying along the pipeline route.