

Underground Cable Systems

Ruwais Industrial Zone – U.A.E



Stringent demands to be approved as a supplier

At the end of the Nineties when the oil companies in Ruwais were faced with large increases in power in connection with their processing plants stringent demands were made on the suppliers. The state authority, ADNOC held the key as the testing and approval body for suppliers.

In a short period ABB succeeded in qualifying and becoming registered as an approved supplier and in doing so was able to compete for the three assignments in Ruwais by the

Persian Gulf. Important reference objects, that gave credence to ABB as a cable producer, were already operational in U.A.E, Qatar, Saudi Arabia and Kuwait. A significant factor was the local ABB company, which had an established contact with the customer.

The assignment encompassed the entire project from design and supply of materials to installation and testing of the complete systems.



Contract Profiles

Ruwais I

The first assignment includes three different cable systems comprising in total of some 28 km.

- 1,275 m 1400 mm² Cu, 132 kV XLPE cable with lead sheath and aluminium wire armour
- 6,240 m 300 mm²Cu, 132 kV XLPE cable with lead sheath and aluminium wire armour
- 20,340 m 400 mm²Cu, 132 kV XLPE cable with lead sheath and aluminium wire armour
- 66 x 132 kV cable terminations for gas insulated switchgear
- 24 x 132 kV straight through joints
- Complete responsibility for installation, testing and commissioning

End-user: ADNOC
Contractor: ABB Sadelmi SpA
Year of contract: 1998

Ruwais II

The second assignment includes two different cable systems comprising in total of some 54 km.

- 36,000 m 1000 mm²Cu, 132 kV XLPE cable with lead sheath and aluminium wire armour
- 18,000 m 500 mm²Cu, 132 kV XLPE cable with lead sheath and aluminium wire armour
- 24 x 132 kV cable terminations for gas insulated switchgear
- 6 x 132 kV cable terminators for transformers
- 39 x 132 kV straight through joints, with accessories for a cross-bonding system
- Complete responsibility for installation, testing and commissioning

End-user: Borouge
Contractor: Eastern Bechtel Co.Ltd.
Year of contract: 1999

Ruwais III

The third assignment includes two different cable systems comprising in total of some 43 km.

- 42,000 m 1200 mm²Cu, 220 kV XLPE cable with lead sheath and aluminium wire armour
- 1,200 m 1000 mm²Cu, 132 kV XLPE cable with lead sheath and aluminium wire armour
- 12 +24 x 220/132 kV cable terminations for gas insulated switchgear
- 66 x 220 kV straight through joints, including accessories for a cross bonded system
- Complete responsibility for installation, testing and commissioning

End-user: ADNOC
Contractor: ABB Sadelmi SpA
Year of contract: 2000

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