



Saih Rawl Depletion Compression Project



PROJECT PROFILE

Project

Saih Rawl Depletion Compression (SRDC)

Location

Saih Rawl, Sultanate of Oman

Client

Petroleum Development Oman

Main Contractor/Sub-Contractor If Sub-contractor, to whom

Subcontractor to Tecnicas Reunidas

Brief Description of the Work undertaken by BEC

Complete Civil, Mechanical, Electrical and Instrumentation Construction, and Assistance during Commissioning of Saih Rawl Depletion Compression Project and complete Engineering, Procurement, Construction, Testing and Commissioning of 132 kV Overhead Line Transmission System, consisting of:

- Compressor Plant
- Power Plant
- Overhead Transmission System

Contractual Scope (Civil)

- Complete Site Preparation (Approx. 130,000 M³) Back Filling
- GTG, Stack, Auxiliaries, Compressors (4 Nos) Piperack and all associated Equipment Foundations.
- Control Buildings (5 Buildings) for AIS, GIS, VFD and Compressor Substations.
- Pipe / Cable Trenches
- Access Roads
- Building MEP Services including HVAC
- Concrete (Approx. 18,000 M³)
- Excavation (Approx. 32,000 M³)
- Reinforcement (Approx. 1,300 Tons)
- Supply and Erection of Structural Steel (Approx. 1,800 Tons)

Contractual Scope (Mechanical)

- Fabrication, Erection and Testing of Process Piping (Approx. 100,000 inch dia including 80,000 inch dia of Duplex Stainless Steel) involving CS, LTCS and DSS material.
- Equipment Erection and Alignment (Approx. 3,000 tons) of various Equipments including 1 x 120 MW Gas Turbines, Compressors, Pumps, Vessels & other miscellaneous Equipments.
- Fabrication and Erection of Pipe Supports (Approx. 250 Tons).
- Painting (Approx. 20,000 M²).
- Structural Steel Erection and alignment Works (Approx. 1,800 Tons).
- Fabrication, Erection & Testing of 8" x 2.2 Kms of Fuel Gas Pipeline.

Electrical

- Construction of 132 kV Twin OHL on Wooden pole on EPC Basis – 80 Km
- Construction of 132 kV Twin OHL on Steel Towers on EPC Basis – 10 Km
- Install Test Commission of 125 MVA Power Station with 6 Bay AIS
- Install Test Commission of 140 MVA Generator Transformer.
- Install Test Commission of 132 kV, 25, 40, 50 MVA Transformers – 8 Nos
- 132 kV Bay Extension work at 4 Existing Substations.
- Install Test and Commissioning of 14 Bay Gas Insulated Switchgear.
- Install Test and Commissioning of VFD SS with 4 x 23.5 MVA Compressor
- Install Test and Commissioning of Compressor Substation and other Equipments
- Laying of 1C x 1000 Sqmm 132 kV Cables – 6 Kms
- Laying of MV, Power and Control Cables – 320 Kms.

Instrumentation

- Installation Testing and Commissioning of 125 MVA Power station controls, DCS System., Turbine Controls and other Instrumentations
- Installation testing and Commissioning of DCS System, Safe Guard System, Depletion Compression Controls, Field Control System and Fire and Gas Detection Systems.



Aerial view of Compression Plant



A view from the Pipe Rack



Power Station



132 kV GIS Substation



A view from under the Pipe Rack



Compressor Shelter



Instrument Air Shelter



Gas Compressor



South Manifold



M. V. Switch Board - 6.6 kV



Transformer Yard



View from GIS Building



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