



Marmul Polymer Flooding Project



PROJECT PROFILE

Project

Marmul Polymer Flooding Project

Location

Marmul, Sultanate of Oman

Client

Petroleum Development Oman

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

Subcontractor to SNF SAS

Brief Description of the Work undertaken by BEC

Complete Civil, Mechanical, Electrical and Instrumentation Construction, Part Procurement and assistance during Commissioning and Operation of Marmul Polymer Flooding Facilities, consisting of

- Water Treatment Facility
- Polymer Injection Facility
- Off-Plot Pipelines And Flowlines
- 27 Well-heads Piping

Contractual Scope (Civil)

- Complete Site Preparation (Approx. 304,957 M³ Earth Works)
- Equipment, Tanks and Pipe Rack Foundations (Approx. 4,400 M³ Concrete, 410 Ton Reinforcement Steel and 16,000 M² Form Work).
- Control Buildings (2 Nos.)
- Pipe / Cable Trenches
- Access Roads (Approx. 8,000 M² Asphalt Roads + 13,071 M² Graded Roads).
- Building MEP Services including HVAC.

Contractual Scope (Mechanical)

- Fabrication, Erection and Testing of Process Piping (Approx. 70,000 inch dia) involving Carbon Steel and Stainless Steel material.
- Erection, Lamination and Testing of underground / above ground GRE Piping (Approx. 40,000 inch dia)
- Equipment Erection and Alignment (Approx. 2,000 tons) of various Process Equipment including Silos, Pumps, Filters, Tanks & Vessels and other miscellaneous equipments.
- Fabrication and Erection of Pipe Supports (Approx. 200 Tons).
- Painting (Approx. 25,000 M²).
- Fabrication, Erection, Testing, Internal / External Coating / Lining of 5 Nos. Storage Tanks (Max. size: 12.5 metres dia x 12 metres high).
- Fabrication, Erection, Testing, Internal HDPE Lining and External Coating of Off-Plot Pipelines and Flowlines.
- 88 Kms. of Piping (30", 18", 10", 6" and 4")
- Fabrication, Erection, Testing, Internal HDPE Lining of 27 Well-heads Piping, including hook up.

Electrical & Instrumentation Works

Complete Electrical and Instrumentation works including Supply, Installation and Testing of Electrical / Instrumentation Equipment (33 kV / 4 kV - 20 MVA Transformers - 4 Nos, 6 MVA Transformers - 4 Nos, 11 kV Switchgears - 2 Nos, Yokogawa DCS System, Control Panels, Relay Panels, LV / MV Panels, Cables - 220 Km, 27 Well-heads RTU's, etc.) and associated works.



Water Treatment Plant



Water Treatment Plant Control Room and Power Transformers



Storage Tanks area in WTP



Polymer Storage, Mixing and Injection Facility



On-plot GRE Piping



Primary Water Treatment (HDBF) Facility



Off-plot Flowlines and Pipelines



Polymer Injection Pump Bay



Polymer Plant and Control Room Overview



G R O U P

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BAHWAN ENGINEERING GROUP

Oman: P. O. Box 703, Ruwi - 112
Sultanate of Oman
Tel.: +968 24597510, 22031111
Fax: +968 24597511
E-mail: becoman@becoman.com

Dubai: P. O. Box: 25173
Dubai, United Arab Emirates
Tel: +9714 3475878.
Fax: +9714 3471855
E-mail: becdubai@emirates.net.ae

Abu Dhabi: P. O. Box: 31747
Abu Dhabi, United Arab Emirates
Tel: +9712 6414316.
Fax: +9712 6414317
E-mail: btcauh@emirates.net.ae