



SOHAR FERTILIZER PROJECT



PROJECT PROFILE

Project

Sohar Fertilizer

Location

Sohar, Sultanate of Oman

Client

Sohar International Urea and Chemical Industries

Employer

MHIFPCC

MEI Contractor

Bahwan Engineering Company

Project Configuration

Single Stream Ammonia Unit	:	2000 mt/day
Two Stream Urea Solution unit	:	1750 mt/day
Two Stream Urea Granulation unit	:	1750 mt/day

Contractual Scope (Mechanical)

■ Steel Structure	:	3,600 tons
■ Equipment Installation	:	19,454 tons
■ Piping Fabrication and Erection	:	411,872 inch dia & 4,104 tons of Erection
■ Painting	:	140,698 m ²
■ Insulation	:	56,354 m ²
■ UG Piping	:	137,090 inch dia & 21,716 m total length

Contractual Scope (E&i)

■ High Voltage Cubicles & Transformers	:	150 nos.
■ Low Voltage Cubicles, Consoles, Panels etc.	:	700 nos.
■ Power, Control, Lighting & Instrument Signal Cables	:	1250 kms.
■ Process Instruments, Speakers & Telephones	:	5100 nos.
■ Ladder, Tray, Conduits	:	140 kms.
■ Process / Pneumatic / Steam trace tubing	:	1480 nos.

Project Highlights

Ammonia Unit

- Primary and Secondary Reformer, Waste Heat Boilers
- Ammonia Converter 432 tons (Heaviest Equipment)
- CO₂ Regenerator 62 m (Tallest Equipment)
- Syn Gas, Ammonia, Process Air & Natural Gas Compressors.

Urea (2 Streams)

- CO₂ Compressors and Urea Granulation Units
- Reclaimer and Product Conveyor System
- Ship Loader Unit

Utilities & Offplot

- Gas Turbine 2 Units of 28 MW Capacity each
- HRSG 2 Units 75 tons/hour Steam Generation Capacity each
- Auxiliary Boiler 150 tons / hour Steam Generation Capacity
- Emergency Diesel Generator of 2.4 MW Capacity
- Desalination 2 Units, Demineralisation Unit & Nitrogen Generation Unit
- Seawater Intake Facilities consisting of 4 Seawater intake Pumps

SOHAR FERTILIZER PROJECT



Utility area overlooking the Ammonia plant



Granulation Structure & Urea Conveyor



Overview of CO₂ Removal Section



Overview of Reformer



Ammonia Rack Piping



Panoramic view of the Plant



Engineering Change... Changing Lives.

CORE ACTIVITIES

Oil, Gas & Power Projects
Electro-Mechanical Services
District Cooling
Civil Construction
Electrical Projects
Facilities Management & Maintenance
Elevators & Escalators
Diesel Power Generation
Water & Waste Water Projects
Electrical Products
Mechanical Products
Chemical & Industrial Products

BAHWAN ENGINEERING GROUP

Oman: P. O. Box 703, Ruwi - 112
Sultanate of Oman
Tel.: +968 24597510.
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