



**KARADAG
GAS COMPRESSOR
STATION**



OWNER:
AZERGAS
JOINT STOCK COMPANY

MAIN CONTRACTOR:
TOYO
ENGINEERING CORP.

CONTRACT VALUE:
9,600,000 US \$

DATE OF CONTRACT:
14 June 2002

DATE OF COMPLETION:
30 September 2003

PROJECT LOCATION:
KARADAG
REPUBLIC OF AZERBAIJAN

SCOPE OF WORKS:

TML as the leader and sponsor of the TML - BOROVA Joint Venture was entrusted with the main subcontract to execute all civil works, mechanical, electrical and instrumentation works.



CONSTRUCTION WORKS:

- Compressor Building
- Nitrogen Building
- Process Plant Foundations
- Fire Fighting Building
- Administration Building
- Gate House

MAJOR CIVIL WORKS ITEMS:

- 355 PCRC Piles (400 mm sq.)
- 17,000 m³ Earthworks
- 3,500 m³ Reinforced Concrete
- 350 Tons of Reinforcement
- 11,000 m² of Formwork
- 275 Ton of Steel Structure
- 500 m³ of Asphalt Works

MECHANICAL INSTALLATIONS

- Gas Turbine & Compressors - 186 t.
- Diesel Engine Generator - 10 t.
- Vertical Pump & Drivers - 10 t.
- Horizontal Pump & Drivers - 9 t.
- Air Fan Coolers - 181 t.
- Tower & Reactor Drum Vessels - 110 t.
- Fire Water Tank (200 m³) - 20 t.
- Flare Stack - 15t.
- Instrument Air Dryer - 4 t.
- Filter - 19 t.

STRUCTURAL WORKS

- Compressor Building - 170 t.
- Nitrogen Building - 24 t.
- Fire Fighting Station - 21 t.
- Pipe Racks - 39 t.
- Administration Building - 50 t.
- Platforms & Supports - 68 t.



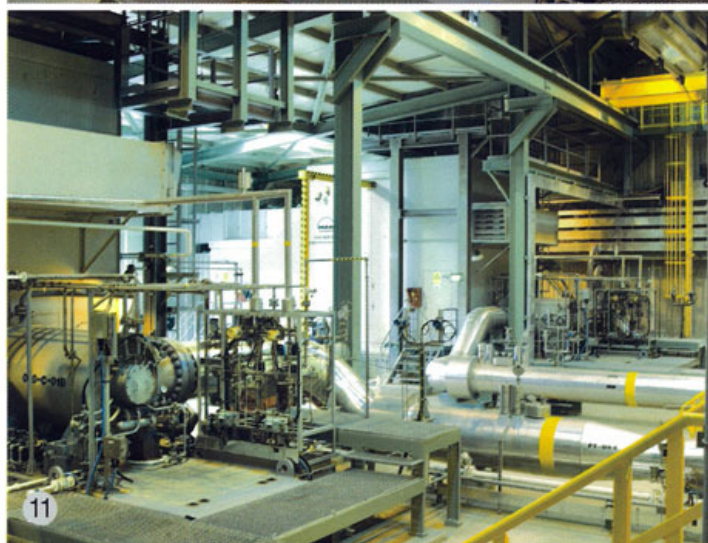


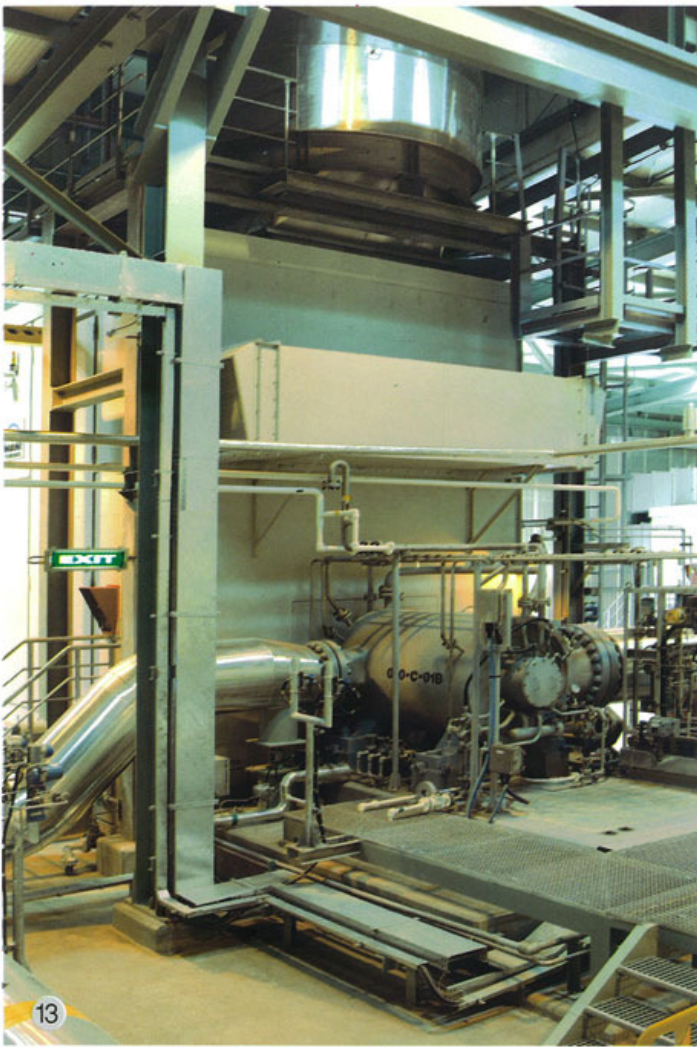
PIPING WORKS:

- Underground PVC-Piping (1,5-6")
2,751 dia - inch welding
- CS Piping (1.5 - 16 inch)
22,578 dia - inch welding
Including Spool Welding
- Post weld heat treatment 3,320 dia-inch
- 1,500 Radiographic Tests (NDT)
- 55 t. Field Fabricated Supports
- 740 m² field coating & wrapping
- 500 dia - inch Dye Penetrant

ELECTRICAL WORKS:

- Overhead Transmission Line
2x10 KV - 3 Km.
- Power Cabling 0,4 KV - 20 Km.
- Instrument & Control Cabling - 40 Km.
- Lighting Cables - 7 Km.
- Ground & Lightning Cables - 7 Km.
- Field & Local Instruments
- Switchgears (LV - MCC - 10 KV) - 30 t.
- Battery Systems
UPS - 36 V - 24 V DC - 10 t.
- Control Room - Relay / PC
Control Equipment
- Communication / CCTV Systems
- Lightning Protection & Ground Systems
- Testing and Precommissioning Works





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In late 2003 TML completed this Gas Compressor Station which is a part of the project supplying natural gas from the SOCAR (State Oil Company of Azerbaijan Republic) processing facilities in Karadag to the Severnaya 400 MW Combined Cycle Power Plant which was also previously completed by TML.

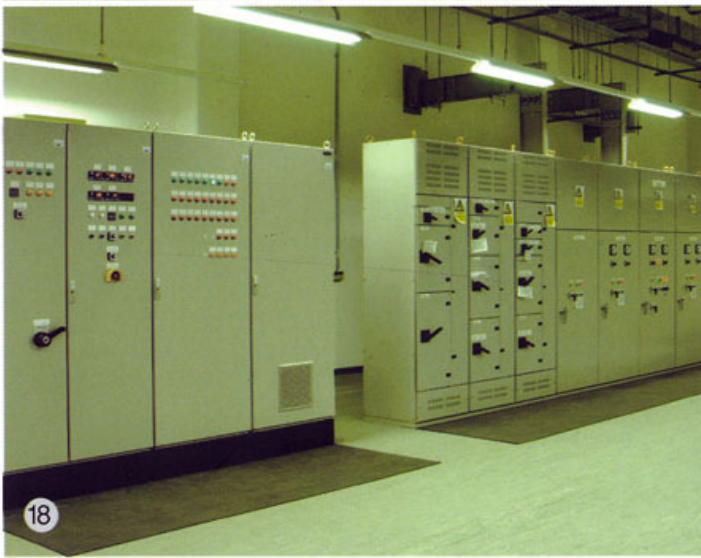
TML's scope comprised of the civil, mechanical, electrical and instrumentation works for this station which incorporated two 11 MW gas turbine compressors each rated at 5 million m³/day at 37 barg discharge pressure.

After years of international contracting in Libya, Saudi Arabia, Tunis, Iran and Russia, in 1996 TML moved into Azerbaijan construction market and since have completed and delivered to their owners:

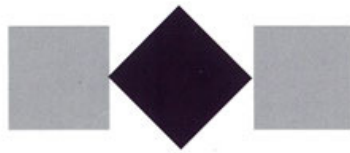
- A 400 MW Power Plant,
- An Underground Parking Garage,
- A Training Center for an Oil Sector Multinational,
- A Built-It-Yourself Store,
- A Supermarket,
- An Office and Apart Hotel Complex measuring 22,000 sq. meters,

and is presently continuing serving the oil industry by renovation and extension works at SPS offshore platform manufacturing shipyards.

Today, **TML İNŞAAT SAN. TİC. ve TUR. A.Ş.**, awarded with an **ISO 9001** certificate continues to serve its clientele in Turkey, Libya and Azerbaijan in the fields of **Building construction**, **Process and Power Plant construction and assembly**, **Heavy Civil works** (Bridges, Roads, Tunnels, infrastructure works), **Environmental Engineering** and **Construction Management**.



photography by ersin alok phone: (+90-212) 249 13 09 e-mail: alokphoto@suponline.com / www.alokphoto.com.tr (16-17-18 from TML archives).



TML İNŞAAT SANAYİ TİCARET VE TURİZM A.Ş.
 Çavuşbaşı Caddesi No: 33 Kavacık 34810 İstanbul
 Tel: (0216) 413 33 39 Fax: (0216) 413 13 22
 tml@tml.com.tr www.tml.com.tr

