

# Water Transmission System from OXAGON to GAYAL

**Client**

Petrojet

**Ultimate Client**

NEOM

**Scope of Work**

Topographic Survey  
Geotechnical Investigation  
Environmental Studies  
Hydraulic Analysis

**Location**

NEOM, Saudi Arabia

**Type of Activities**

Architectural  
Civil  
Communications and Security Systems  
Electrical  
HVAC  
Infrastructural  
Instrumentation and Control  
Mechanical  
Structural

1,200 MLD pumping station, sited at NEOM desalination plant tank farm, and a culverted twin 2,000 mm dia. carbon steel potable water transmission system.

The pumping station discharges through a 65 km twin 2,000 mm dia. transmission system to the High Point Reservoir, while a 37 km similar gravity twin transmission system conveys water to Gayal.

Future provision within the pumping station will enable the later addition of three further piping systems to give an overall capacity of 2,100 MLD.

Full infrastructure and electrical sub-stations and support facilities are provided at the pumping station site. The 100 km buried pre-cast culvert is sized to accommodate a third future 2,000 mm dia. pipeline and includes connection chambers, washout, and air release facilities.

The scope includes system hydraulics, surge/transient analysis and protection measures, and full instrumentation and control.



Water Transmission System from OXAGON to GAYAL