Neom Mountain

Client
NEOM

Scope of Work
Topographic Survey
Geotechnical Study
Hydrology Study
Master Plan
Design Review
Concept Design Master Plan
Detailed Design Master Plan

Location
Saudi Arabia

Types of Activities
Architectural
Communications and Security Systems
Electrical
HVAC
Infrastructure
Landscape
Mechanical
Instrumentation
Roads
Structural
Urban Design

The project includes design review of a water transmission line with a length of 42 km, including carbon steel pipes with a diameter of 1000 mm. The line transmits water from a break pressure tank with a capacity of 285,000 m^3) to the Mountain Reservoir which has a capacity of 60,000 m^3). This adds to 4 booster pump stations; each with a flow rate of 96,000 m^3/day.

Scope of works cover preparing the concept design and detailed design master plans for facilitating the construction activities in the logistic zone which comprise the following three areas:

Contractors' Village

With an estimated area of 760,000 m^2; the Contractor's Village accommodates 24,000 persons and comprise the following:

- Accommodation buildings with different design features:
  - Type A: Manager Accommodation Buildings (158 bld. x 126 m^2 = 19,846 m^2)
  - Type B1: Senior Accommodation Buildings (73 bld. x 186 m^2 = 13,552 m^2)
  - Type B2: Senior Accommodation Buildings (70 bld. x 247 m^2 = 17,309 m^2)
  - Type C1: Junior Accommodation Buildings (51 bld. x 186 m^2 = 18,936 m^2)
  - Type C2: Junior Accommodation Buildings (48 bld. x 247 m^2 = 23,738 m^2)
  - Type D1: Labour Accommodation Buildings (16 bld. x 187 m^2 = 5,991 m^2)
  - Type D2: Labour Accommodation Building (170 bld. x 280 m^2 = 95,353 m^2)
- Mosque with an area of 3,000 m^2
- Central Kitchen with an area of 3,000 m^2
- Sport club with an area of 16,968 m^2
- Utilities with an area of 14,824 m^2
- Internal roads
- Flood protection channels

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Batch Plants' Area

With an estimated area of 353,198 m^2; this area is allocated for installing concrete-batch plants, asphalt-mix plants, and pre-cast concrete facility.

- The land is divided into sub-plots including:

- 8 plots for concrete production (each with an area of approximately 15,000 m^2)

- 4 plots for asphalt production (each with an area of approximately 18,000 m^2)

- One plot for pre-cast concrete production facility with an area of approximately 35,000 m^2

- Labs with an area of 3 x 1000 m^2

- Utilities with an area of 11,000 m^2

- Security/guard rooms

- Flood protection channels

- Internal roads

Laydown Yard Area

With a total area of 258,591 m^2; the laydown yard is divided into sub-plots, including:

- 13 plots for material laydown & logistics (each with an average area of 10,000 m^2)

- 1 plot for workers camp with an average area of 50,000 m^2

- Utilities with an area of 5,198 m^2

- Fuel depot & concrete mix truck washing facility with a total area of 15,000 m^2

- Security/guard rooms

- Flood protection channels

- Internal roads