Electro: Mechanical / Infrastructure



AL NASR SCOPE OF WORKS:

Construction of water storage tank consisting of:

- 3 Water storage tanks
- 2,641,721 gal of 42 m diameter and 7.65 m each

Structural work

- 2300 m³ of concrete
- 2450 m² of water proofing external
- 4300 m² of crystalline waterproofing internal surface
- 2600 m² of high-performance coating finishing

Mechanical work

- Installation of water supply, fire-fighting and drainage
- Including all pipes, valves, vent pipes, covers and frames, fittings and accessories
- Tie-in with existing water source and new water source form Takreer

Electrical work

- SCADA System and Instrumentation
- Complete control system including all necessary control and instrumentation items,
- cabling and accessories

Sewage pumping station 03(SPS-03) consisting of:

Structural work

- 450 m³ concrete
- 285 m² precast wall
- 650 m² water proofing external
- 580 m² surface plaster
- 135 m² protective covering ballast; crushed gravel
- 1450 m² interior and exterior coating finishing
- Metal fabrications for trench cover and access ladders
- Balustrades and handrails and metal gratings







Client: ADNOC

Location: Ruwais, Abu Dhabi,UAE Contractor: Ghantoot Transport & Gen. Cont. LLC Contract Period: 24/02/2015- 23/08/2016 Value: AED 98,106,930.00

PROJECT STATISTICS

Peak manpower	700
Man- hours accident free	889,380
Total lost time through incidents	Zero
Equipment hours accident free	95,120
Total Concrete Poured	9759m ³ (total 15,000m



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Control and chlorination building consisting of: Structural work

- 150 m³ concrete
- 230 m² precast wall
- 350 m² water proofing external
- 120 m² block work
- 300 m² surface plaster
- 900 m² high-performance coating finishing
- Metal work hollow metal doors and aluminum alloy fixed louvers
- Sand trap, access doors and overhead coiling doors

Mechanical work

Supply and installation of:

- Gas chlorination system including chlorine drums, vacuum regulators, gas detectors,
- chlorinators
- Dosing pumps, emergency scrubbers, air compressor
- Lifting beam, scale and all necessary equipment
- HVAC system
- 2.5 t monorail crane

Plumbing work

- Domestic water booster pumps and water piping
- Sanitary waste, vent and storm drainage piping
- Clean-agent fire extinguishing systems

Electrical work

- Power and lighting including all necessary cabling, cable trays, termination and all
- necessary works
- ATS , MCC , MCCBs, UPS
- Earthling system
- Lightning protection
- Fire alarm system
- Communication
- SCADA system and instrumentation
- Complete control system including all necessary control and instrumentation items,
- cabling and accessories



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Sewage lifting station (SLS1A) consisting of:

Structural work

- 1160 m³ concrete
- 1200 m² water proofing external
- 480 m² GRP Lining for wet well
- 300 m² block work
- 600 m² surface plaster
- 375 m² ceramic tiles for wall
- 750 m² epoxy coating finishing
- Metal fabrications for trench cover and access ladders
- Handrails and metal gratings

3 evaporation pond pump station consisting of:

Structural work

- 78 m³ concrete
- 120 m² water proofing external
- 300 m² block work
- 600 m² surface plaster
- 375 m² ceramic tiles for wall
- 64 m² polyurethane coating finishing
- Metal fabrications roof access hatches and roof scuttle
- Comprising galvanized steel cover, curb mounted, with lifting mechanism and auto-
- matic hold open arm
- GRP Fabrication platform, ladders and balustrade
- Handrail, rails and gratings

Mechanical work

- Supply and installation of 2 of 85 L/S flow rate submersible drainage pumps with, DI
 pipes, fittings and accessories and all relative supports up to 350 mm diameter , GRP
 pipes, fittings and accessories, UPVC Pressure Pipes, fittings and accessories
- Gate valves, check valves, dismantling couplings and flange adaptors

Electrical work

- Cabling, cable trays, termination and all necessary works
- SCADA system and instrumentation
- Complete control system including all necessary control and instrumentation items,
- cabling and accessories



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Mechanical work

- HVAC system
- Heating flat plate solar collector with 80 L storage tank

Plumbing work

- Kitchen and toilet
- Domestic water piping
- Sanitary waste, vent and storm drainage piping

Electrical work

- Lighting including all necessary cabling termination and all necessary works
- Earthling system
- Lightning protection
- Fire alarm system
- Communication
- SCADA system and instrumentation
- Complete control system including all necessary control and instrumentation items, cabling and accessories

Water Pump Station

Earth work

Excavation	325 m3
Filling of imported or suitable excavated material	80 m3
Soil replacement under foundations	50 m3

Structural work

Concrete	550 m3
Water proofing external	1250 m2
Surface plaster	1300 m2
Protective covering ballast; crushed gravel	640 m2
High-Performance Coating finishing	2000 m2

Mechanical work

- Supplying and installation
- 4 nos. Vertical Turbine Double Case Water Pump
- 1 nos. Vertical Turbine Double Case Water Pump Jockey Pump
- DI pipes, fittings and accessories and all relative supports
- Motorized Butterfly Valves , Check Valves, Dismantling Couplings
- Surge Protection 20,000L Bladder Type Pressure Tank 2 nos.
- Monorail crane 5 Tons



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Irrigation central control room consisting of: Structural work

- 35 m³ concrete
- 79 m² precast wall
- 116 m² water proofing external
- 24 m² block work
- 105 m² surface plaster
- 70 m² ceramic tiles for wall
- 208 m² high-performance coating finishing
- Metal work hollow wooden doors

Mechanical work

- HVAC system
- Heating flat plate solar collector with 80 L storage tank

Plumbing work

- Kitchen and toilet
- Domestic water piping
- Sanitary waste, vent and storm drainage piping

Electrical work

- Lighting including all necessary cabling termination and all necessary works
- Earthling system
- Lightning protection
- Fire alarm system
- Communication
- SCADA system and instrumentation
- Complete control system including all necessary control and instrumentation items,
- cabling and accessories

5 guard houses

Structural work

- 35 m³ concrete
- 79 m² precast wall
- 116 m² water proofing external
- 24 m² block work
- 150 m² surface plaster
- 70 m² ceramic tiles for wall
- 208 m² high-performance coating finishing
- Metal work hollow wooden doors



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Plumbing work

- Domestic Water Booster Pumps & Water Piping
- Sanitary Waste, Vent and Storm Drainage Piping
- 9,500L capacity Fuel Oil Underground Storage Tank
- Rotary Gear Fuel Pump Set including all specialties, piping, valves and accessories

Electrical work

- Power and Lighting including all necessary cabling, Termination and all necessary works
- Earthling System
- Lightning Protection
- SCADA System and Instrumentation
- Complete control system including all necessary control and instrumentation items, cabling, accessories

