

YAS ISLAND DEVELOPMENT

Electro: Mechanical / Infrastructure



PROJECT INTRODUCTION:

Client Aldar Properties wanted to transform the 2,500hectares man-made island from a dusty wasteland into a lush recreational setting, complete with a Formula One track, seven hotels, one functioning and one constructed marina, and the 200,000m2 Ferrari World theme park complex. An international-standard 'links' golf course - a first for the Middle East - and fully landscaped areas round out the development, creating a verdant oasis within easy access of both Abu Dhabi and Dubai. AIDAR in association with Taisei and Halcrow International as consultant want to develop this historical project in the capital city of abu dhabi with world class standards. Al Nasr Contracting Company was awarded entire street lightings of Operative villages 1, 2, 3 & 4 in Yas Island.

AL NASR SCOPE OF WORKS:

Package 1: Potable water pumping station(A430101/2007/C/081

Package 2: Irrigation tank & pumping station(A430101/2007/C/086

Package 3: Potable water pumping station(A430101/2007/C/081) Maintenance.

Package 4: YID/P2C/SUB/0004 Comprising of water supply works, irrigation, fire hydrants network, Sewerage network & Storm water network.

Package 5: YID/P2C/SUB/00016 Electrical works

Package 6: YID/P2C/SUB/0004 Yas Tunnel Control Buildings, Substation, utilities works & gas line.

Package 7: YID/P2C/SUB/0009 Precast concrete foundations, manholes & pipeworks Ancillaries, support & protection ancillaries, laying of cables, street lighting, Feeder and Earthing

Package 8: YID/P2C/SUB/0008 Power Supply works

Package 9: YID/P2C/SUB/0003 Street lighting

Package 10: YID/P2C/SUB/0003 Irrigation Pipeline from Operative Villages to Golf Course

Package 11: YID/P2C/SUB/0003 Waste Collection Stations and Waste Management Pipeline

Client: Al Dar

Location: Abu Dhabi, UAE

Contractor: TAISI

Contract Period: 08/2012- 08/2013

Value: AED 415,673,122.00

PROJECT STATISTICS

Peak manpower	1,350
Man- hours accident fre	3,500,000
Total lost time through incidents	Zero
Equipment hours accident free	896,000
Total Pipeline Laid	156,000 Meters
Total Cable Laid	50,000 Meters
Total Concrete Poured	119,000 Cubic Meters



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Mechanical Works

- Supply and Installation of Variable Speed Pumps and associated fittings.
- Supply and Installation of Surge Vessel and associated fittings.
- Supply and installation of different type of Valves.
- Supply and installation of DI pipe (socket / spigot and Flanged pipe) and Installation
- Supply and Installation of Over - head crane.
- Supply and Installation of motorized shutter door and Fire rated doors.
- Supply and Installation of HVAC system.
- Fabrication, supply and erection of Stair case, hand rail and Plat forms.
- Supply and Installation of Chlorination system
- Supply and Erection of salt storage tank.
- Supply and Installation Fire- fighting pump and associated piping works.
- Supply and installation of Diesel Storage Tank.
- Shut down and tie-in connection – Pump station to water net work.

All the Electrical and Mechanical work tested , commissioned and hand over to Client.

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Civil Construction Work

- Pump Hall.
- Stair case, Hand Rail and Plat Forms.
- Electrical Room.
- Control Room.
- UPS Room.
- Battery Room.
- Chlorination Room.
- Salt Storage Room.
- Fire Fighting Pump Room.
- Generator Room and Diesel Tank Room.
- Transformer Room.
- Surge Vessel Foundation.
- Valve Chambers.
- Kitchen and Toilets.
- Service Road and car parking.
- Storm Water Network and Drainage Net work
- Boundary Wall
- Store Room.

Total Excavation	2400.00 cu.m
Total Concrete	7000.00 cu.m
Total Block Works	2500.00 sq.m
Total Plaster work	4600,00 sq.m
Total Road Works	2200 .00 sq.m

Electrical Work

- Supply and Installation of L V Panels and M V Panel
- Supply and Installation of Control Panels.
- Supply and Installation of VFD
- Supply and Installation of UPS and Battery system.
- Supply, laying and termination of MV , LV and Control cables.
- Supply and installation of cable trays, and conduits.
- Supply and Installation of all internal and external lighting system.
- Supply and Installation of all Fire- fighting system and fire alarm system
- Supply and Installation of CCTV camera system
- Supply and Installation of Earthing system.
- Supply and Installation of Generator
- Supply and Installation of Transformers.
- Supply, laying and termination of incoming cables to transformers.