

DUBAI WORLD CENTRAL RESIDENTIAL DISTRICT INFRASTRUCTURE CONSTRUCTION (PACKAGE-1)

Infrastructure



AL NASR SCOPE OF WORKS:

Construction of roads works consisting of:

- 6,600 m roads with different ROWs ranging from 22 - 42m.
- Asphalted carriageways, medians, flush and up stand curbs, block paved parking and verges along with the road signage and markings

Potable water network consisting of:

- 8,070 m of 100 - 450mm water glass fiber reinforced epoxy (GRE) pipes in trenches plus all required valves, washout chambers and air valves

Construction of sewerage network consisting of:

- 7,530 m of 150 – 700 mm uPVC and GRP main sewer and house connection pipelines in trenches along with manholes and house connection chambers

Storm water drainage network consisting of:

- 14,000 m of 200 – 800 mm of solid and perforated drainage pipelines in trenches ranging in size from DN 200mm to 800mm of uPVC and GRP along with manholes, inlet gullies and gully connector pipes

Construction of combined irrigation and fire fighting network consisting of:

- Transmission and distribution of 7,070 m of HDPE 180 – 225 mm pipes in addition to valves, washout chambers, fire hydrants and risers

Construction of district cooling network consisting of:

- 7,700 m of pre-insulated carbon steel transmission
- Distribution of DN 100 - 1200mm house pipelines for water supply and water return systems of district cooling network along with all chambers, valves and ancillary works

Client: Dubai Aviation City Corporation (Dubai South)

Contractor: Al Nasr Contracting Co. L.L.C

Contractor: Dubai, UAE

Contract Period: 08/2015-04/2016

Value: AED 108,204,179.98

PROJECT STATISTICS

| | |
|-----------------------------------|-----------------------|
| Peak manpower | 394 |
| Man- hours accident free | 740,700 |
| Total lost time through incidents | Zero |
| Equipment hours accident free | 187,200 |
| Total pipeline to be Laid | 44.37 km |
| Roads and Pavings | 94,296 m ² |
| Total Cable to be Laid | 12,015 m |
| Duct to be Laid | 33,000 m |



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Installation of electrical works consisting of:

- Earthworks, surveying, installation of Polyvinyl Chloride (PVC) ducts beneath roadway carriageways, either in trenches or concrete encased ducts, supply and laying of electrical power and communication cables, joint-pits and jointing cable, terminations and other cable related works. Works also includes supply, installation and commissioning of 11kV substations buildings, substation equipment, and low voltage work

Construction of Telecommunication Works consisting of:

- JRC 12 and 14, 1,2,4 and 6 way D54 PVC ducts and 2 way D56 PVC ducts. All ducts to be 90 mm internal diameter with a total length of approximately 17,500 m

Supply and installation Road Lighting consisting of:

- New lighting poles, complete with latest technology LED type Light fittings, Foundations, feeder pillars, LV power cables, Lighting cables, ducts, and earthing systems
- 244 lighting poles with LED light fittings, relocation of Existing poles, 11,080 m of power cables and 2600 m of lighting cables

Supply and installation of Gas Network consisting of:

- 200 mm or 400 mm dia. uPVC ducts

The scope of spare ducts involves road crossing ducts at several locations.