

FOUKA'S SEA WATER DESALINATION PLANT - ALGERIA

Marine Works



ETERMAR

CLIENT

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Fouka's Sea Water Desalination Plant – Marine Works - Algeria

CONSTRUCTION TIME

20 MONTHS

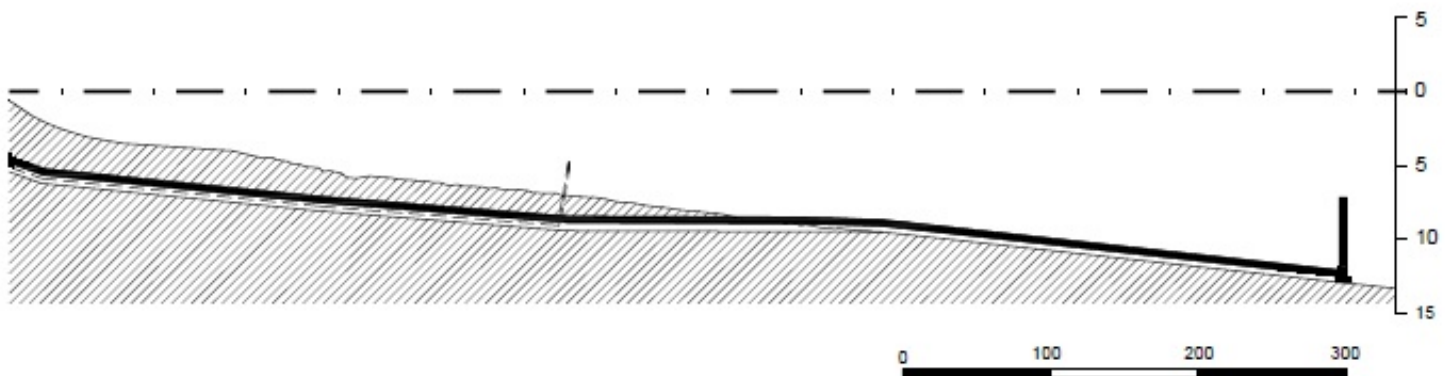
DESCRIPTION

Design and build of the marine structures for Fouka's sea water desalination plant that included:

- Two ducts for sea water intake (PEHD PE100 DN1600 SDR26) with 900 m long.
- Two water intake structures (aspiration heads).
- One brine rejection outfall (PEHD PE100 DN1200 SDR26) with 370 m long ended by a diffuser.

The works included:

- Trench excavation for pipe installation between -5,50 and -9,00 ZH. Dredging of loose materials and medium hardness with the pontoon «DRAGAMAR» equipped with 125 ton hydraulic shovel. Rock excavation by ripper, pestle, rock blasting hammer and explosives.
- Reinforced concrete precast of 484 ballast rings Ø 1600 mm of 6,2 ton and 86 stabilizers of 14,6 tonnes port water intake ducts and 65 ballast rings Ø 1200 mm for rejection outfall.
- Supply, preparation (assembly of ballast rings and long pipe connection) and pipe installation.
- Construction and installation of intake structures (aspiration heads).
- Cathodic protection of metallic pieces.
- Pipe protection of the part in trench with a 1 m thick sand layer under a 50 to 500 kg rockfill layer.
- Placement of 86 stabilizers fixed on the ballast rings.
- Supply and installation of three maritime signal buoys.
- Tests.



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