

Proficiency certificate

PROJECT TITLE	AVIATION FUEL HYDRANT SYSTEM PROJECT TARMAC 2
CLIENT	TOTAL MADAGASIKARA SA
PLACE	IVATO Airport (MADAGASCAR)
TOTAL AMOUNT	1 900 000 €

DESCRIPTION

Mission of advisory for the design of an aviation fuel hydrant system extension, feeding Tarmac 2 area. (buried loop 8" diameter, length about 600 m for each line pipe, 16 hydrant pit boxes) and the two valves chambers associated to the project – high vent point and low point.

Drawing up of details plans and schemes

Advice concerning equipment's selection (hydrant pits, isolating valves, valve chamber lids, ...)

Drafting of technical market specifications (piping, civil engineering and emergency stop system)

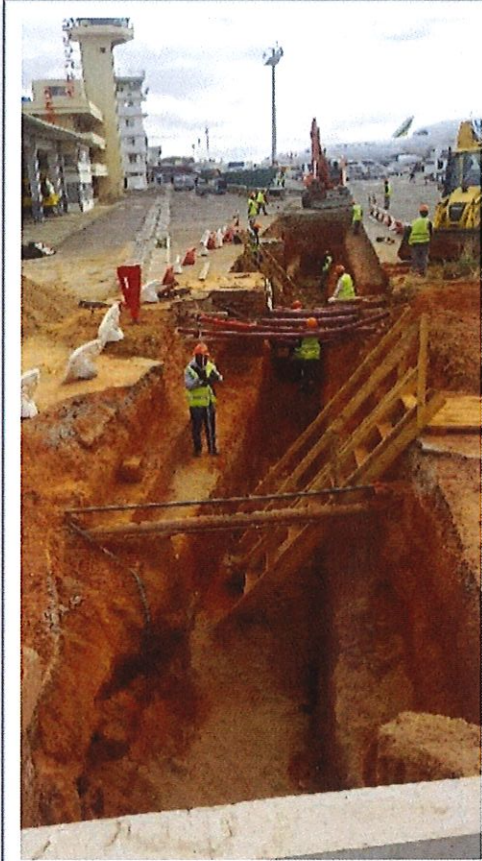
Advice on the choice of contractor to achieve the work

Advice on validation of working documents

Work follow-up, including remote assistance, and direct field involvement during the most critical phases of work (installation of hydrant pit boxes, connection of the new hydrant system to the existing one and final work pre-reception)

Superposition of plan view and aerial view of completed achievements





Excavation work



Work completed

COMMENCEMENT OF WORK MAY 2018
END OF WORK SEPTEMBER 2018

CERTIFICATE

I, the undersigned, acting as TOTAL MADAGASIKARA Operation Manager, do hereby certify that the project described above proceeded in accordance with Industry's state-of-the-art rules and fulfilled the commitments that were set since the original order. I place particular emphasis on the quality of the documentation supplied and the professionalism of this Company that have contributed to the achievement of this project.

In witness whereof, this proficiency certificate is issued to serve the purpose it might be required.

Martin FESSARD

At : Antananarivo

A handwritten signature in black ink, appearing to be 'Martin Fessard', written over a horizontal line.

at 15/05/2019

Airport Fluid Distribution Networks