

THESSALONIKI REFINERY UPGRADE PROJECT _ MECHANICAL WORKS FOR EQUIPMENT & STEEL STRUCTURE ERECTION IN CCR UNIT, INCLUDING OCTANIZER HEATERS F-1401A/B/C & STABILIZER REBOILER HEATER F1404

Client/End User : Hellenic Petroleum s.a. _ Thessaloniki Refinery (Greece)

Year : 2011

Work Description :

- ▶ Steel Structures : Assembling and erection of the following steel structures for Piperacks (10 items) & Plant structures (4 structures A, B, C, D).
Total weight: 2.520.000 kgs
- ▶ Mechanical Works : Erection of mechanical equipment.
In details:
 - 32 drums (254.000 kgs),
 - 4 heaters (78.950 kgs),
 - 20 heat exchangers (282.000 kgs),
 - 4 electrical heaters (4.500 kgs),
 - 1 fan (4.500 kgs),
 - 2 filters (4.800 kgs),
 - 16 chemical packages (14.500 kgs), also including platforms, ladders, interconnection piping and testing, 12 pumps (20.600 kgs), 2 dryers (24.000 kgs), 1 tower (60.000 kgs). Installation and testing of all internals (demisters, trays, shieves etc).
- ▶ Heaters: Assembly and erection of two (2) furnaces (heaters):
 - F1401 A/B/C (1.350.000 kgs)
 - F1404 (120.000 kgs)In details: Initial works, assembly and installation of Radiant Section. Assembly and installation of convective sections. Heaters. Refractory and lining installation. Assembly and installation of platform and ladders. Miscellaneous/balance materials (Burners, local panels, soot blower etc.). Piping prefabrication and erection. All required tests. Painting works. Heaters Conservation.

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▶ Assembly and Erection of Compressors :

Assembly and erection of five compressor plants of total weight 530.000 kgs (9 compressing units).

In details: Initial works and assembly of crank case and cylinders. Assembly and installation of platforms and ladders. Piping prefabrication and erection. Cooling water and lube oil consoles assembly and erection. Consoles interconnecting piping. Alignment of motor/axis. Compressors' conservation and testing.

▶ Assembly and Erection of 2 Air Fins

▶ Assembling and erection of bridge crane.

▶ Commissioning – start up



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