HELLENIC PETROLEUM

HELLENIC PETROLEUM S.A.
Aspropyrgos Refinery
17th km National Road Athens-Corinth
193 00 Aspropyrgos, Greece
Switchboard: +30 210 5533 000
Fax: +30 210 5539 298-9
www.helpe.gr

Date : 12/5/2014

CERTIFICATION

We hereby certify that the company **ET.M.ER. S.A.,** undertook and executed as a Contractor, on behalf of **HELLENIC PETROLEUM S.A.** in the Aspropyrgos Industrial Complex, the following project :
"MAINTENANCE WORKS AT THE UNIT U-3300 DURING THE SHUTDOWND OF 2011"

Assignment date	:	20/07/2011
Contract Nr.	:	4403014745
Project budget	:	591.480€
Completion date	:	05/11/2011
Final cost	:	607.956€

Description of works

The project included the following main activities:

1. Isolation of the Unit

- Installation or turning of the unit blinds and restoration of them at the end of the project.

2. Works at the furnace L-3300

The works included:

- Opening, erection of internal scaffolding at the furnaces L-3301, 2, 3, 4, 1N, 2N and restore / closing after the end of the works.
- Replacement of all the vertical exit tubes at L-3301 and L-3302, part of the exit tubes at L-3302N, L-3303 and of 2 inlet tubes at L-3301. Material: ASTM A213 GR.T9. Dimension of tubes: D= 3 ½", Thickness: t=7.11mm.

  Number of welds: 223 pcs.

3. Works at the reactors K-3301, 2, 3 and 4

The works included:

- Dismantling and removal of the entry curves, catalyst legs, upper hoper drums, distributor and other parts.
- Restoration of the reactors.

4. Maintenance works at the vessels, safety valves and unit valves

The works included:

- Blinds installation, opening, maintenance and restoration of 11 vessels

Dismantling, delivery to maintenance workshop and re-installation of 16 valves (dimensions: 1" to 20") and 18 pressure safety valves (dimensions: ¾ " X 1" to 6"X8"). Hellenic Petroleum SA provided all the project's key

HELLENIC PETROLEUM

materials to the Contractor except from the materials for steel structures, refractory, thermal insulation and painting.

All the works has been executed during the SHUT DOWN 2011. Duration: 17 days.

The executed works, as they have been invoiced, amounted to: 607.956,00 € V.A.T excluded.

The above mentioned works breakdown as follows:

YEAR	CATEGORY	VALUE	TOTAL
2011	INDUSTRIAL / ENERGY	250.000,00 €	607.956,00 €
	HI-PRESSURE HYDRAULIC SYSTEMS	357.956,00 €	

The execution of the project was utterly satisfying and promptly delivered.

This certificate was granted to the a.m. company after its request and for any lawful use.

On behalf of

HELLENIC PETROLEUM S.A.

Maintenance Manager of Aspropyrgos Refinery

K. Methenitis
Maintenance Manager of Aspropyrgos Refinery