

**CONTRACTORS PAST EXPERIENCE**

01. Facilities : **CRUDE OIL TANK**
02. Location : "Trzebinia" Refinery, Poland
03. Owner : "TRZEBINIA" Refinery
- Address : Trzebinia, Fabryczna 22, Poland
04. Our scope of work : Full design works
05. Contract award : 2003
06. Start of contract : 2003
07. Completion : -
08. Characteristics :
Engineering project for tank for Crude Oil as follow:

Grupa Kapitałowa
Rafinerii Trzebinia S.A.

Serial No.	Tank designation	No.	Capacity m3	Dia (m)	H (m.)	Roof configuration
1	Crude Oil Tank	1	10000	31.30	14.00	Floating Roof

Works includes:

- I. TANK appurtenances such as:
Shell and Roof Manholes, Nozzles, Access and Clean Out Doors.
- II. Tank Heaters (Bottom and Suction)

Tank shall be furnished with one bottom heater and one suction heater.
The Suction heater shall be equipped with an isolating valve on the oil suction side complete with operating gear and linkage.

• STRUCTURAL STEEL WORK

Design works of miscellaneous steel and metal works for Tank Appurtenances, Platform, Walkway, Stairway, Rolling ladder, Wind grinder, Drain Nozzle and Drain Sump, etc. Welding all lugs, brackets and supports and any other miscellaneous steel and metal works for tank appurtenances.

• CIVIL AND ARCHITECTURAL WORKS

Design works of foundations.

09. SCOPE OF ACTIVITIES

- Development of basic data and preliminary design (d & d submitted by the Client)
- Detailed Engineering:
 - P & I
 - Plot Plan (arrangement)
 - Civil
 - Mechanical
 - Electrical
 - Instruments
 - Workshop drawings
- As build drawings

10. STANDARDS AND CODES

American and Polish Standards, where applicable, others internationally recognized and accepted.

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Our previous design work for "Trzebinia" Refinery (part):

1. Fuel and LPG distribution terminal - 2000



2. Tanks 5000 cbm and 10000 cbm – 1999-2000





Firma Inżynierska ES Sp. z o.o.

Engineering Office "ES" Ltd.
