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## West Asia Steel Project – Industrial WWTP

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### Project Aim:

Reuse all type of waste water producing in West Asia Steel Complex comes from Sanitary, Oily and Industry Sources by tacking advantage from state of the art WWTP design methods and high-tech Equipment to Meet IEPO Standards in order to reliable Industrial and agricultural wastewater reuse.

### Owner / Client / Consultant:

West Asia Steel Complex / West Asia Steel Company (WASCO) / Fan Gostar Pars Co (FGP) EPC Management Co.

### Location / Completion Year / Duration:

Ghom Province / 2009 / 7 month

### Contract Type:

EPC

### Represented Solution in This Project

#### Main Solution:

- ◆ **Industrial Waste Water Treatment and Reuse** (Cooling and Agricultural Application)
  - 1<sup>th</sup> Unit: Oily Wastewater Treatment
  - 2<sup>th</sup> Unit: Industrial Waste Water Treatment
  - 3<sup>th</sup> Unit: Sanitary Waste Water Treatment

#### Supplementary Solutions:

- ◆ Hydraulic Structure / Concrete Reservoir and Basins
- ◆ El and Inc. / all Electrical Panel, Represented by ABSUN MADAR CO.

#### Complementary Services:

- ◆ Procurement / Directly from 5 different country & 8 International Company
- ◆ Laboratory Testing Services / Over 18 time sampling for more than 25 Parameters

### Employed Process and Technology:

- ◆ CPI - Corrugated Plate Interceptors- Employed in 1<sup>th</sup> Unit
- ◆ DAF - Dissolved Air Flootation - Employed in 1<sup>th</sup> Unit
- ◆ C&F - Coagulation and Flocculation - Employed in 2<sup>th</sup> Unit
- ◆ IFAS - Integrated Fixed-Film Activated Sludge - Employed in 2<sup>th</sup> Unit
- ◆ EAAS - Extended Aeration Activated Sludge - Employed in 3<sup>th</sup> Unit



**Fluid Characteristic:**

	Influent	Effluent
	Balancing Tank	WWTP Effluent to Reuse
PH	3 – 10	6-8.5
COD	800 mg/l O <sub>2</sub>	100 mg/l O <sub>2</sub>
TSS	350 mg/l	50 mg/l
Oil & Grease	5 % Max	10 mg/l

**Process Flow Diagram:**

