
Bardsir Rolling Mill Project – (WTP)

Project Aim:

Desalination a non-usable water resource by means of covering all water demand's of a huge industry located close to Bardsir city. Respect to the general sustainable development policies of the region, Absun Palayesh Eng. co. helped the industry to be independent from Bardsir's water resources and avoiding water scarcity in the area.

Owner / Client / Consultant:

Bardsir Rolling Mill Complex / Sirjan Jahan Steel Company (SJSCO) / Canymes Company (Iran) - PEREET (India)

Location / Completion Year / Duration:

Bardsir - Kerman Province – Iran / 2017 / 8 month

Contract Type:

EPC

Represented Solution in This Project:

Main Solution:

- ◆ Desalination

Supplementary Solutions:

- ◆ Building and Infrastructure / Civil works, including: buildings, shed and land escapes
- ◆ Hydraulic Structure / Concrete Reservoir
Raw water & Permeate water tank - Capacity : 800+800 m³ - Concrete Epoxy Coated
- ◆ Electrical and Instrument / all LV, MV & MCC Panel, done by Absun Madar CO.

Complementary Services:

- ◆ O&M Operation and Maintenance
- ◆ Procurement / Directly from 8 different country including 15 International Company
- ◆ Laboratory Testing Services / 5 time sampling for more than 14 Parameters

Employed Process and Technology:

- ◆ Reverse Osmosis / BWRO - Capacity ~ 1,000,000 m³/year / Recovery =80%



Fluid Characteristic:

	Feed	Product
	Ind. Wastewater	Treated Water
Flow Rate	3186 m ³ /day	2640 m ³ /day
Pressure (at 25 °C)	16 bar	-
Water Reaction (pH)	8	7-9
Total dissolved solids (TDS)	1169 mg/L	< 15 mg/L
Total hardness (THD)	667 mg/L	< 1 mg/L
Bicarbonate (HCO ₃)	153 mg/L	< 3 mg/L
Sulphate (SO ₄)	545.2 mg/L	< 5 mg/L

Block Flow Diagram:

