
Iranian Bootia Pelletizing Project – Pilot Plan

Project Aim:

Treatment of Kerman city WWTP effluent to meet the requirement of API standard and desalination the treated water by means of reuse in industrial application and cover some sanitary consumption of a huge pelletizing complex located close to Iran's central desert.

Owner / Client / Consultant:

Iranian Bootia Pelletizing Complex / MEMSECO (Middle East Meyare Sanat Engineering Company) / BARSOO International Engineering Company

Location / Completion Year / Duration:

Kerman Province – Iran / 2017 / 3 month

Contract Type:

EPC

Represented Solution in This Project:**Main Solution:**

- ◆ Sanitary Waste Water Reuse (By tacking advantage from state of the art design of multi-disciplinary WWT&D Plant)

Supplementary Solutions:

- ◆ El and Inc. (all Electrical Panel, Represented by Absun Madar Co.)

Complementary Services:

- ◆ Procurement (Directly from 8 different country & 13 International Company)
- ◆ Laboratory Testing Services (Over 25 time sampling for more than 30 Parameters)

Employed Process and Technology:

- ◆ EAAS - Extended Aeration Activated Sludge
- ◆ DMF – Dual Media Filtration (Absorption + Filtration)
- ◆ UF - Ultra Filtration as RO Pretreatment
- ◆ BWRO - Brackish Water Reverse Osmosis
- ◆ SWRO – Sea Water Reverse Osmosis



Fluid Characteristics:

	Influent	Effluent	
	Raw Water	Pretreated Water	RO Permeate
BOD	150 mg/L O ₂	30 mg/L O ₂	N.A
COD	250 mg/L O ₂	60 mg/L O ₂	N.A
TSS	150 mg/L	40 mg/L	N.A
TDS	2000 mg/L	2000 mg/L	< 50 mg/L

Block Flow Diagram:

