

Major Textile Mill in Pakistan



Introduction

In November 2007, Pure Aqua successfully supplied a skid-mounted Industrial Reverse Osmosis Apparatus to a major textile mill in Pakistan. This Apparatus was designed to produce 70 m³/hr product at 77F using (72) 8" x 40" [FILMTEC BW30-440i membrane](https://www.pureaqua.com/industrial-brackish-water-reverse-osmosis-bwro-systems/) elements, (12) FRP pressure vessels 6 elements per each vessel, SS multistage pump, PLC based controls and a digital conductivity and ORP read out, 380V/3ph/50Hz. Feed water to the unit is from a bore-well with a raw water TDS of about 4273.13 PPM. The unit design was based on high rejection TFC spiral wound membranes. The BWRO Unit was selected from our RO-500 series, model # BW-500K-12680-5. It consists of a 5-micron cartridge filters to reduce feed water Silt Density Index (SDI) and to limit the SS to 5-micron size and an advanced PLC control panel with a touch panel screen. Pretreatment of raw water includes multimedia filters to remove suspended solids and reduce turbidity, dechlorination dosing system to remove the feed chlorine, acid dosing system to reduce the pH of the feed water and control the LSI, Biocide dosing system to control the biological growth, antiscalant dosing to minimize the precipitation of sparingly soluble sulfate, and Caustic Soda dosing system to adjust the pH of the product water. For more information, please visit our webpage: <https://www.pureaqua.com/industrial-brackish-water-reverse-osmosis-bwro-systems/>

Plant Overview

Location:	Pakistan
End-User:	Crescent Textile Mills, LTD.
Objective:	Potable and textile dying.
Water Source:	Bore-well
Feed TDS:	> 100 PPM
Plant Capacity	1892 m ³ /day
Pretreatment:	1 train of 6 multimedia filters, FRP tanks
Auxiliary System:	Cleaning and flushing system. Coagulant, pre & post chlorination, Dechlorination, and Antiscalant dosing systems
Control System:	PLC controlled with color touch screen

