

## A Major Company in Pakistan



### Introduction

In December 2010, Pure Aqua, Inc. successfully manufactured and supplied brackish water reverse osmosis system to a major water treatment company in Pakistan. The objective was to produce drinking water with less than 500 ppm. The product water capacity was 87,000 GPD from a well water of approximately 5,000 ppm TDS. This brackish water reverse osmosis system was selected from our RO-400 series and came complete with an advanced microprocessor control panel, a high pressure stainless steel pump, dechlorination, and antiscalant dosing systems. Since its initial startup, the brackish reverse osmosis system has been running smoothly with minimal trouble-shooting.

Brackish water reverse osmosis system was created and executed for treating brackish water. Brackish water is most commonly found in wells, rivers or lakes. This type of water has a higher salinity content than pure water but has a lower salinity content than sea water. Brackish water is usually a combination of lower salinity concentrated water and sea water. In the brackish water reverse osmosis system, reverse osmosis is the process in which salt and other impurities are removed from water to make it consumable. Naturally occurring "osmosis" is the process in which

### Plant Overview

Location:	Pakistan
End-User:	A major company
Objective:	Drinking water with less than 500 ppm
Water Source:	Well water
Feed TDS:	5,000 ppm
Capacity:	87,000 GPD
Pretreatment:	Dechlorination and antiscalant dosing systems
Instruments:	Conductivity meter, ORP monitor, and low & high pressure switches
Control System:	Microprocessor control panel