



Key Benefits

- A total solution that accommodates the water needs at Sousa
- Prompt support for seasonal requirements
- Timely execution without compromising quality or the capacity required to kick off the project, which were both imperative for the project
- A packaged plant that could be easily and quickly deployed
- A reliable design that meant trouble free automatic operation and minimum downtime
- Full local support, and customer service, in a world-class quality, from a well established company



Surface Water Treatment Plant, Sousa - Tunisia

A Case Study



Key Data

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|---------------|---|
| Location | Sousa - Tunisia |
| Plant Type | Surface Dam Water Treatment |
| Capacity | 26,000 m ³ /day |
| Use | Municipal |
| Client | SONEDE |
| End User | SONEDE |
| Contract Type | Design & Build on a Turnkey Electromechanical Basis |

Introduction

Sousa is a tourist city located on the south Mediterranean coast. It is home to several beach resorts that are flocked by thousands of tourists every year. The city constitutes one of the major income inducing areas for the Tunisian government, and such the Tunisian government decided to establish a new water treatment plant. The new plant has a capacity of 26,000m³/day for potable use, and can accommodate the increasing demand for water in this busy area.

The client, SONEDE (Societe Nationale d'Exploitation et de Distribution des Eaux), tendered the project on an urgent basis in a bid to meet the anticipated increase in demand which was expected in the summer of 2004. Metito was entrusted by SONEDE to execute and deliver the plant within 4months from date of award. The project encompassed the complete design, manufacturing, installation and commissioning of the plant, followed by two months performance reliability test. Classroom and field training of client personnel were also part of the services rendered under this contract.

Scope of Work

Metito's responsibility included the design and supply of the following electromechanical process equipment, arranged in 3 streams:

- Prechlorination system utilising two sodium hypochlorite injection systems
- Coagulation and flocculation systems utilising alum and polymers
- 3 flash mixing tanks
- 3 flocculation tanks
- Packaged prefabricated steel tube settler clarifiers
- 3 break tanks
- Filter feed and backwash pumps
- 3 automatic dual media multi-compartment filter vessels
- PLC controls with Man-Machine interface

