



TM.E.S.p.A
Termomeccanica Ecologia

Pre-treatment filtration, reverse osmosis nano-filtration and demineralisation plant

Iskenderun (Turchia)

The plant has been supplied for the production of industrial and demineralised water for service within the steel production plant of Iskenderun. The steel production plant of Iskenderun (Iskenderun Iron Steel Works Company) belongs to ISDEMIR and is the largest steel production plant currently in operation in Turkey.



Water treatment
Industrial Plants and Ion Exchange

Pre-treatment filtration, reverse osmosis nano-filtration and demineralisation plant Iskenderun (Turchia)



- **Name of the plant:**

Pre-treatment filtration, nano-filtration reverse osmosis and demineralisation with ion exchange resins (cationic and anionic) for the production of industrial water and demineralised water to feed the water heater circuit.

- **Place of installation:**

Iskenderun (Turchia)

- **Client:**

ISDEMIR

- **Plant description:**

First section

Reverse Osmosis (RO) treatment section including:

- sand/anthracite filters and cartridge-type mechanical filters
- 2 RO lines in two stages and total recovery of 75%
- chemical dosing system

Second section

Demineralisation section constituted of:

- 4 treatment lines with cationic and anionic units
- cationic and anionic resins regeneration system
- remote control and electricity distribution system

- **Technical data:**

plant entrance flow: 860 m³/h

R.O flow and demineralisation section : 600 m³/h

conductibility : 0.1 micro S/cm

silica : < 0.02 ppm.

- **Scope of the contract:**

- general and detailed design
- coordination of the activities for the execution of civil works
- supply and erection of all the electromechanical components
- six months of plant operation and training of the personnel



T.M.E. S.p.A. - Termomeccanica Ecologia

Registered office: Via Lodovico Mancini, 5 - 20129 Milano - Italy

Head office: Via del Molo, 3 - I9126 La Spezia - Italy

Tel. +39.0187.5521 - Fax +39.0187.552215

www.termomeccanica.com • e-mail: box8@termomeccanica.com