



▲ **ELECTRICAL CABLES**

A complex electrical supply network had to be installed to provide the various parts of the plant with power.

Large trenches had to be dug in the chalky ground to make room for all the armoured cables.



▲ **VESSELS**

A sophisticated pipework was designed to connect the numerous vessels, filters and tanks.

Sometimes congestion of services in confined spaces created a challenge.



◀ **EXPORT PIPELINE**

Technicians are seen installing a water pipeline on its pre-cast concrete foundations.

Many a time the works had to be suspended due to inclement weather and sandstorms that take place frequently in that area.

**PIPES ON RACKS**

Once the pre-cast concrete pads were positioned and stabilized cross-beams were fixed onto them to carry several lines of steel pipes.

Steel cross-over was provided to facilitate safe movement of personnel.



**PIPE WORK**

Raw water arriving to plant, treated water conducted to the produced water tanks, outfall pipes taking the brine to the evaporation ponds: a complex network had to be built to service the plant.

**VEOLIA RO PLANT**

On this project, several mechanical and electrical works had to be executed.

French companies consider the erection of steel structures also a part of mechanical works.

Kilometres of electrical armoured cables went into trenches and ducts.

The electrical room housed the switchgears and panel boards.

Generators supplied power until the RO Plant was connected to the power main coming from the national grid.

Street lighting was also provided.

Several types of pipe materials were used, particularly GRP, GRE, carbon steel, stainless steel, HDPE, and UPVC, depending on the anticipated pressure in the pipe and the nature of the fluid that the pipeline had to carry.

Fiber optic cable ensured the transfer of information from the various instruments to the control station.

A fire fighting system and earthing arrangement ensured safety controls and recovery measures.

