



The Owner: General Company for Hydro Projects, Aleppo.

Contract's Subject: Supplying mechanical and electrical equipment for the main pumping station and the subsidiary transforming station in Albalikh basin

Construction Period: 18 months

The Project Site: Alraqqa

The Project's Description:

Supplying mechanical and electrical equipment for the main pumping station and the subsidiary transforming station in Albalikh basin.

For General Company for Hydro-projects.

SUMMARY

The project consists of two parts:

First Part: Pumping station

The total flow is 17 m³/s.

It consists of /6/ vertical pumps and their motors.

The flow of each pump is 3,4m³/s.

/6/ KV Switchgear that feeds the motors of the pumps.

Control panels for the whole station operation, whereas the complete station is controlled by a PLC that controls the operation of each pump, and a main PLC which is connected to a central computer to control the operation of the complete station automatically, depending on water levels in the discharge and suction chamber.

Sliding gates to close and open the pumps suction chambers, with required cranes and lighting fixtures.

Second Part: Transforming Station

The capacity of the station is 40 MVA and 66/20/6.3 KV voltage.

It consists of two 66KV incoming OHL cells from the main network, with all the needed equipment like current and voltage transformers, Circuit breakers and all the required accessories. Two power transforming cells, the capacity of each transformer is 20 MVA, with all the cells components.

Fire protection system for transformers that work automatically.

Measuring cells on the side voltage 66 KV, and coupling cells for manoeuvre.



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Central control and protection panels for the complete equipment of the substation, that monitors and controls the operation of all equipments at the station and protect them. 20 KV & 6.3KV switchgears, in addition to auxiliary equipment like charger, batteries, gensets, low voltage cells and lighting fixture.