



THERMAL POWER STATION FOR LIVE STEAM PRODUCTION OF EP-300 UNIT

APPLICATION

The thermal power station is designed for production of live steam, electric energy and desalinated water for process needs of the petroleum processing plant.

STRUCTURE

The thermal power station includes two steam boilers with gas-pulse clearing of heating surfaces and total productivity 200 tons of live steam per an hour (140 kgf/cm², 540°C), a turbine unit with electric capacity 18 MW, and equipment for water demineralization.

AMOUNT OF WORKS

Turn-key construction of the thermal power station, including construction and installation of:

- I two E-100-13,8-545GM steam boilers, manufactured by OJSC "Sibenergomash";
- I turbine unit including non-condensing steam turbine completed with a reducer, generator and PCS7 reserved control system by SIEMENS;
- I main building with the basic equipment and part of the auxiliaries;
- I ferro-concrete chimney stack with gas flues;
- I water demineralization system on reverse osmosis by JURBY WATERTech, productivity 350 t/hour, with necessary tank and chemical feed facilities;
- I fuel oil pumping station with supply tanks and fuel oil heaters;
- I scaffold bridges for steam delivery at 140 kgf/cm² and 16 kgf/cm² to the manufacture, laying electric cables for electric power output and auxiliary technological pipelines, power and control cables, necessary road passways and grounds for the required freight traffic;
- I fire extinguishing pumphouse; greasy and storm runoffs pumphouse with networks; utility runoffs pumphouse with networks.



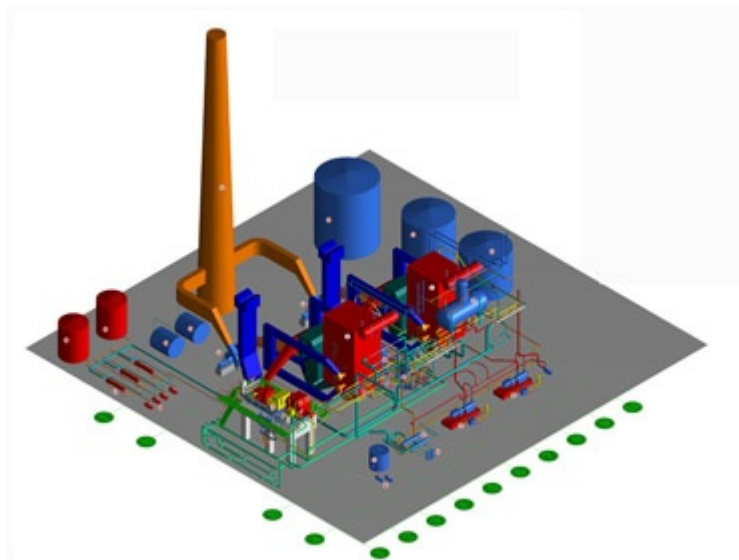
ACS

The created power unit is equipped with a distributed steam generation process control system. ACS of the thermal power station is constructed on YOKOGAWA equipment.

All the equipment located in the operation zone has explosion-proof design. The unit has Rostekhnadzor license for application in Russia, certificates of Gosstandart of the Russian Federation.

THERMAL POWER STATION SPECIFICATIONS

Steam parameters:	
Output pressure	140 kgf/cm ²
Steam operating temperature	+540°C
Productivity of each boiler	100 tons/hour
Turbine unit parameters:	
Input steam	140 kgf/cm ²
Operating temperature	+540°C
Steam consumption	140 tons/hour
Steam pressure on blow-off	16 kgf/cm ²
Design capacity on the generator terminals	18 MW



The company carries out delivery, start-up operations and maintenance personnel training. The equipment is delivered within 12 months from the date of contract execution and prepayment.
