



Russia

Turn-key Construction of Animal Carcass Incineration Plant



Client

Ekotechprom

Objectives

BC Berlin was assigned as general contractor by the City of Moscow for the planning, supply, construction and start-up of an animal carcass incineration plant.



Activities

1. TECHNICAL CONCEPT

The animal carcass incineration plant consists of two identical incineration lines with a capacity of 250 kg/h of pathological waste, each. Every incineration line is equipped with an automatic lift to feed the incinerator. The ash produced during incineration is discharged manually at the front door of the incinerator.

The incineration part consists of a combustion chamber, an afterburning and a relaxation chamber. Combustion air is fed by a fan into the different parts of the incinerator depending on the state of the process, the temperature distribution and the oxygen demand. One gas-fired burner is installed for heating the incinerator to starting conditions and to support the process when the heating value of the input is low. Another one is assuring the necessary temperature in the afterburning chamber.

The flue gases are led through the afterburning chamber and then cooled down in a heat exchanger producing warm water. After passing the boiler the flue gases are cleaned up in a dry sorption process. The cleansing agents are lime and activated carbon, which are retained on a cloth filter.

Liquid waste and waste water can be disposed of in the combustion chamber by pumping through injection nozzles.

The ashes produced by the incineration are not harmful for humans or the environment and can be disposed of on ordinary landfills.

The whole process is computer-monitored and –controlled. For storing the waste a cooling chamber was installed.

2. TECHNICAL DATA

2 identical incineration lines	
input per line:	250 kg/h
incineration temperature afterburning chamber:	850 – 1,200 °C
dwel time afterburning chamber:	min. 2 seconds