

## **ABSTRACT**

Diploma project: p. 116, tab. 54, fig. 9.

The object of the design is the process of developing the technology for the production of steel castings «Kotok» weighing 27 kg by casting in one-time three-dimensional sand-clay molds and designing the melting department of the foundry.

The subject of the project is foundry mold technology and the organization of the work of the melting department of the foundry shop.

The developed technological process of manufacturing this casting can be recommended for the production of small (up to 100 kg) steel castings of simple open cylindrical shape in conditions of large-scale production.

The performed calculations of the economic indicators of the proposed project solutions show that the use of the developed technology is economically feasible.

An analysis of harmful and dangerous production factors in the melting department was carried out. Measures have been developed to ensure safe working conditions for workers in the designed department of the foundry.

CASTING, ROLLER, STEEL, SAND-CLAY MOLD, FURNACE, MELTING  
COMPARTMENT, INDUCTION CRUCIBLE FURNACE.