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Technological process of manufacturing a cast iron casting "Bracket" and organization of the molding department of the foundry

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The subject of the design is the development of a technology for manufacturing a 14.7 kg cast iron casting called «Bracket» using sand molds, as well as the organization of the molding department in the foundry workshop. The project aims to create an efficient and optimal manufacturing process for this specific casting.

The developed technological process for manufacturing the specific casting can be recommended as a standard for producing medium complexity cast iron castings (up to 120 kg) in serial production. The utilization of the proposed process demonstrates its economic viability according to preliminary calculations of the economic indicators considered in the project decisions.

Additionally, an analysis of hazardous and dangerous production factors in the molding department was conducted, and measures have been devised to ensure safe working conditions for employees who will be working in the respective department.

Therefore, the project encompasses not only the development of the technology for manufacturing the specific casting but also the creation of optimal conditions in the molding department to ensure safety and efficiency in the production process.

CASTING, BRACKET, CAST IRON, SAND MOLD, MOLDING SAND, MOLDING DEPARTMENT, MOLDING MACHINE.