

## **Abstract**

The thesis is mainly about Intze's Dam constructions in 1st quarter of the 20th. Century in the area of Giant and Jizera Mountains. In the thesis are briefly characterized nature conditions. Than is Ing. Otto Intze dr. h.c. introduced and his technical principles, defined for the dam construction foundations are described. Main part of this project is about realization of the reservoirs in the area of interest and 1 example of foreign dam collapse. History, construction, technical parameters and engineering geological aspects of individual dams are described in detail. In the conclusion is an evaluation of the quality and the current state of the constructions.