



Terms of Reference

Testing and modelling of the concentrator's grinding cycle in view of the productivity increase up to 3,0 and 3,5 million tons per year

Customer: JSC RMG Copper

Goals and objectives of the work: Determining an optimal equipment design and grinding modes to increase the overall productivity of the concentrator to 3.0 and 3.5 million tons of ore per year, including the processing of polymetallic ores in the amount of 0.4 million tons per year for both options. Additionally suggesting measures to reduce sludging in the process.

Source data/samples for research work:

- Current grinding scheme of the Madneuli Concentrator (Appendix 1)
- Design grinding scheme of the Bektakari Concentrator, equipment in warehouse (Appendix 2)
- Processing of copper ores in the charge material: Sakdrisi, Mushevani, Madneuli (1:1:1)
- Processing of polymetallic ores: Bektakari, Kazreti. The ores of the Kazreti deposit are not currently processed
- Samples of crushed ore as well a grinding products selected by the Contractor as part of Stage 1
- Other data upon request of the Contractor

Scope of work:

1. Reviewing previously completed works.

2. Testing of the crushing and grinding units of the Madneuli Concentrator.

- preparing the testing program and coordinating it with the Customer;
- managing the testing process. Testing shall be carried out by the Customer.

3. Testing the samples of the concentrator

- the composition is determined by the Contractor at the tender stage in accordance with the goals and objectives of the work.

4. Modeling of the process, issuing recommendations

- modeling of crushing-grinding cycles and issuing recommendations on the hardware scheme, grinding-classification modes (granulometric composition of products, size of grinding media by grinding stages)

Additional requirements:

A bidder shall provide information on its experience in similar works.

- Attachments:** 1. Current grinding scheme of the Madneuli Concentrator
2. Design grinding scheme of the Bektakari Concentrator