*Appendix #3 to the Regulations on the Organization and Implementation of Procurement of the “Kumtor Gold Company” CJSC*

**APPROVED BY:**

**Deputy Chairman of KGC Management Board**

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**“\_\_\_\_” \_\_\_\_\_\_\_\_\_\_\_\_\_\_2025**

**TERMS OF REFERENCE**

**for the search and purchase of roller-cone bits for drilling wells with a diameter of 200 mm in open-pit mining at the Kumtor mine.**

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| **#** | **List of basic**  **data and requirements** | **Basic data and requirements** | |
| 1 | Location of the work area | Issyk-Kul region, Jeti-Oguz district, Kumtor gold mine | |
| 2 | Project Customer | The “Kumtor Gold Company” CJSC | |
| 3 | Project Contractor | Selected by the Customer | |
| 4 | Name and purpose of the object | Based on the Customer’s assignment and in accordance with the current rules and regulations, drilling wells for blasting operation. | |
| 5 | Technical supervision | It is carried out by a person from among the engineering and technical employees of the Drill & Blast department, appointed by the order of the management of the Drill & Blast department. | |
| 6 | Winter peak temperature, degrees in Celsius | -32,80 | |
| 7 | Summer peak temperature, degrees in Celsius | +18,40 | |
| 8 | Altitude, m | 3900 - 4400 | |
| 9 | Number of working days per year | 365 | |
| 10 | Number of work shifts per day | 2 | |
| 11 | Brief geological characteristics of the deposit | Specific gravity, t/m3 | 2,85 |
| Specific gravity in loosened state, t/m3 | 1,8 |
| Loosening Ratio | 1.55 |
| Strength coefficient according to the Protodeacon scale | 3-12 |
| Degree of rocks fracture | 60–70% |
| Category of rocks drillability | 6-9 |
| 12 | Parameters of blasting and blasting | Bench height, m | 10 |
| Recommended re-drill, m | 2,5 |
| Slope angle of the working bench | 26,75° |
| Safety shaft (berm) on the slope side, m | 2,2 |
| Drilling Diameter (mm) | 200 |
| 13 | Dispatch system | At the Kumtor mine, the “Kobus” dispatching system is used on drilling rigs. | |
| 14 | Terms of reference | 1. Search and purchase of roller-cone bits for drilling wells with a diameter of 200 mm in open-pit mining. | |
| 15 | Production Requirement | Bore diameter, mm | 200 |
| Bit diameter, inch | 7–7/8 |
| Screw joint | 4 1/2 API Reg (Nip3-117) |
| IADC Code | with 5/8" (16mm) nozzle. |
| Average roller bit penetration, m | ≥3 000 |
| 16 | Average consumption of roller cone bits per month/year | 150 Pieces/1,800 Pieces | |
| 17 | Terms of delivery | DAP, Balykchy town, Kyrgyz Republic. | |
| 18 | Delivery time | No more than 3 months. | |
| 19 | Quality requirements | * A new product, not used for consumption, not refurbished. * Factory packaging, excluding damage during transportation. * Quality certificate with specification marking. | |
| 20 | Delivery volume | * 1200 PCS | |

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