



**Terms of Reference**  
**for the supply of a self-propelled underground cable reeler with a 5-ton**  
**lifting capacity, complete with a basket, for Electrical Service, Underground**  
**Mining Department, Kumtor Mine, Kumtor Gold Company CJSC**

Item №	List of basic data and requirements	Basic data and requirements
1.	Client	Kumtor Gold Company CJSC, Underground Mining Department.
2.	Supplier	Based on the results of the selection process.
3.	General provisions	<p>The purpose of these Terms of Reference is to meet the Company's operational requirements through the purchase of a self-propelled underground cable reeler/cable handler, complete with the necessary attachments, for a range of tasks performed by Electrical Service.</p> <p>The subject of the purchase is one self-propelled underground cable reeler.</p> <p>The cable reeler is designed for unwinding electrical cables from cable reels (drums), as well as moving related materials and equipment used by Electrical Service of UG Maintenance.</p> <p>The equipment shall be new and not used.</p> <p>Year of manufacture: 2026.</p> <p>Quantity: 1 set.</p>
4.	Geometric Characteristics of UG Developments	<p>Maximum height:</p> <ul style="list-style-type: none"> <li>Capital developments: 5,200 mm.</li> <li>Operational developments: 4,500 mm.</li> </ul> <p>Maximum width:</p> <ul style="list-style-type: none"> <li>Capital developments: 5,500 mm.</li> <li>Operational developments: 4,500 mm.</li> </ul> <p>Minimum outer turning radius: 6,600 mm.</p> <p>Minimum inner turning radius: 3,200 mm.</p> <p><i>(The required turning radius will be agreed upon after the technical documentation and equipment specifications have been received from the suppliers).</i></p> <p>Maximum ramp gradient: 15%.</p> <p>Road surface: rock.</p>
5.	Environmental conditions	<ol style="list-style-type: none"> <li>Altitude above sea level: up to 4,000 meters.</li> <li>Outdoor air temperature: - 35 °C to +40 °C.</li> <li>Air temperature of UG mine: +2 °C to +5 °C.</li> <li>Water content of UG mine (humidity): 70%.</li> <li>Air supply: 20 m<sup>3</sup>/sec.</li> <li>Gas pollution: no.</li> <li>Dust pollution: no.</li> </ol>

6.	Requirements for the equipment	
6.1	Main technical specifications of the cable reeler	<p>Model, brand and manufacturer - according to the selection results.</p> <p>Tank volume: to be considered.</p> <p>Year of manufacture: not earlier than 2026.</p> <p>Load capacity: 3,500 to 5,000 kg.</p> <p>All-wheel drive: 4x4.</p> <p>Control type: steering wheel.</p> <p>Tire type: pneumatic, off-road (high traction) tires.</p> <p>Engine:</p> <p>Brand: to be considered (for standardization purposes, preference will be given to engine brands such as Mercedes-Benz, Deutz, Cummins, CAT).</p> <p>Transmission: Hydromechanical gearbox with hydraulic pump drive.</p> <p>Fuel: diesel.</p> <p>Volume: to be considered.</p> <p>Power: at least 120 kW.</p> <p>Turbine availability: yes.</p> <p>Engine reliable operation at altitudes up to 4,000 m above sea level.</p> <p>Industrial-grade engine for underground mining operations.</p> <p>Adaptation to high-altitude operation and Arctic package (preferred).</p> <p>Equipment operating mode: round-the-clock, with 11-hour shifts, 365 days per year.</p>
6.2.	Cable reeler/cable handler equipment	<p>Hydraulic mechanism for lifting/holding the cable drum.</p> <p>Capability to transport a cable drum weighing not less than 3,500 kg.</p> <p>Controlled cable unwinding and winding system.</p> <p>Hydraulic drum gripper for drums with a diameter of up to 2,000–2,400 mm.</p> <p>Cable guide rollers/cable laying devices.</p> <p>Capability to handle various sizes of power cables.</p>
6.3.	Hydraulic work platform	<p>The machine shall be equipped with an integrated hydraulic lifting work platform (scissors, telescopic, or combined type), designed for installation and maintenance operations in underground developments.</p> <p>Basket with a lifting mechanism.</p> <p>Platform type: hydraulic work platform.</p> <p>Platform load capacity: not less than 350 kg (2 persons + tools + materials).</p> <p>Work platform lifting height from ground level: not less than 4,500 mm.</p> <p>Working height: not less than 5,000 mm.</p> <p>Horizontal outreach (in telescopic configuration): not less than 3,500 mm.</p> <p>Capacity: not less than 2 persons.</p> <p>Perimeter safety guardrail.</p> <p>Non-slip floor surface.</p> <p>Access gate/chain.</p> <p>Safety harness attachment points.</p>

		<p>Control from the platform and from the lower control station (in the cab).  Platform size: sufficient for safe operation of two persons.  Emergency lowering of the platform in case of system failure.  Hydraulic safety locks.  Equipment movement interlocks when the platform is raised (or speed limitation).  Capability to operate on slopes in accordance with the manufacturer's instructions.  The platform shall enable the following operations to be performed:  Suspension of power cables along the walls of underground developments.  Installation of cable supports (hangers) and mounting brackets.  Installation of junction boxes.  Maintenance of lighting systems.  Repair of existing cable routes.</p>
6.4.	Requirements for electrical system	<p>Electrical system: 24V, mining-duty design.</p> <p>Lighting: LED, providing all-around illumination of the work area.</p>
6.5.	Requirements for the operator's cab	<p>Cab type: enclosed (open type permitted).  Cab heater.  Control panel.  Falling object/rollover protection (ISO 3449/ISO 3471), ROPS and FOPS.  3 seats.  Seat belts.</p>
6.6	Size and design requirements	<p>The overall dimensions of the cable reeler shall comply with the following limits: length – max. 6,500 mm, width – max. 2,500 mm, height – max. 2,540 mm.</p> <p>The overall dimensions shall ensure safe movement and operation of the equipment in underground developments with cross-sections specified in Section 4 of these Terms of Reference.</p>
6.7.	Fire protection system	<p>Availability of automatic fire extinguishing system.  Availability of portable fire extinguisher.</p>
6.8.	Spare Parts and Accessories	<p>The Supplier shall deliver, along with the equipment, a set of spare parts and a repair kit for 2,000 operating hours.  The Supplier shall guarantee the availability of spare parts for the cable reeler for at least 5 years after the equipment has been delivered.</p>
7.	Warranty period and training	<p>The Supplier shall provide a warranty period of no less than 24 months for the purchased equipment, starting from the date of commissioning.  Service center and spare parts warehouse within the territory of the Kyrgyz Republic shall be available.  If service center and spare parts warehouse are not available within the Client's country, the Supplier shall establish the necessary arrangements</p>

		<p>to ensure proper maintenance and technical support at the Client's location.</p> <p>The Supplier shall provide, along with the equipment, complete technical documentation (drawings, certificates of conformity, technical passports, operating manuals, spare parts catalogues, and other documents necessary for safe operation, as well as for customs clearance and registration with the state authorities of the Kyrgyz Republic). All documents shall be provided both in electronic and printed form in Russian and English.</p>
8.	Equipment acceptance	The equipment shall be inspected and accepted for both quality and quantity at the Kumtor Mine, with the participation of the Supplier's representative.
9.	Commissioning	All costs for additional work identified during the equipment inspection shall be borne by the Supplier.
10.	Quality evaluation criteria	<p>After commissioning, the cable reeler shall be evaluated during the warranty period. Evaluation results shall comply with the manufacturer's specifications.</p> <p>In the event of non-compliance with KGC requirements, the Supplier shall bear all costs for its elimination.</p>
11.	Payment and delivery terms	<p>Payment terms: as specified in the Agreement.</p> <p>The equipment shall be delivered at the Supplier's expense and responsibility.</p> <p>Delivery terms: for non-residents of the Kyrgyz Republic – DAP, for residents of the Kyrgyz Republic – DDP.</p> <p>Delivery location: 9 Naryn highway, Balykchy, Kyrgyz Republic.</p> <p>Delivery deadline: up to 90 calendar days from the date of signing the Agreement by the Parties.</p> <p>Assembly and commissioning shall be completed within the deadlines specified by the Client.</p>
12.	Technical regulations and standards	The equipment shall comply with the requirements established by the applicable Technical Regulations of the Customs Union (TR CU 010/2011) "On the Safety of Machinery and Equipment" and other applicable EAEU requirements (if necessary).
13.	Safety	<p>Brake lock and overload protection systems, fire safety equipment, and lighting shall comply with the specifications outlined in the technical passports.</p> <p>Moving parts of the equipment that may pose a hazard to personnel shall be guarded, except for those parts where guarding is not possible due to their functional purpose. The guards shall be supplied as a complete set together with the technical devices required for their installation.</p>
14.	Note	The requirements set forth in these Terms of Reference are provisional and may be revised during negotiations with potential suppliers.

13.	<p><b>Illustrative image sourced from the Internet</b></p> <p>Technical drawings of a yellow cable reeler machine. The drawings include a front view, a side view, and a top view. Dimensions are provided in feet and inches, with metric equivalents in parentheses.</p> <p><b>CABLE REELER CAPACITY:</b> 78" DIAMETER x 46" WIDE (1.98M x 1.33M) 5,500 LBS. (2495 KG)</p> <p><b>Dimensions:</b></p> <ul style="list-style-type: none"><li>Front View: Width 80 [2.0], Height 132 1/2 [3.4], Total Height 178 [4.5]</li><li>Side View: Width 93 1/2 [2.4], Height 42 1/2 [1.1], Total Height 94 1/2 [2.9]</li><li>Top View: Width 80 [2.0], Height 132 1/2 [3.4]</li></ul>	