**Technical Assignment**

**for the manufacture and supply of mining equipment (cassette intended for personnel transport in mine workings) for the Underground Operations of “Kumtor Gold Company” CJSC**

|  |  |  |
| --- | --- | --- |
| **Item No.** | **List of Key Data and Requirements** | **Key Data and Requirements** |
| 1 | Place of Delivery | “KUMTOR GOLD COMPANY” CJSC. Kyrgyz Republic, Balykchy city, 9 Narynskoe Highway. |
| 2 | Customer | “Kumtor Gold Company” CJSC, Underground Operations. |
| 3 | General Provisions | The subject of this Technical Assignment is the procurement of two (2) personnel transport cassettes intended for installation on a multifunctional self-propelled vehicle used for transporting personnel and various types of loads in underground mining conditions.  The equipment must be:  • new, never previously operated, not refurbished;  • designed and manufactured in compliance with current labor protection and industrial safety standards;  • designed to ensure safe transportation of personnel under underground operating conditions. |
| 4 | Geometric Characteristics of Workings | Maximum height:  • Capital workings – 5200 mm;  • Operational workings – 4500 mm.  Maximum width:• Capital workings – 5500 mm;  • Operational workings – 4500 mm.  Minimum external turning radius – 7200 mm.  Minimum internal turning radius – 3800 mm.  *(Turning radii will be finalized after receiving technical specifications from suppliers.)*  Maximum gradient of ramp – 15%.Road surface – rock. |
| 5 | Environmental Conditions | 1. Altitude above sea level – up to 4000 m.  2. Ambient temperature: –35°C to +40°C.  3. Underground air temperature: +2°C to +5°C.  4. Humidity – up to 70%.  5. Air supply – 20 m³/s.  6. Water supply – Technical water.  7. Gas contamination – None.   1. 8. Dust levels – None. |
| 6 | **Equipment Requirements** |  |
| 6.1 | Technical Specifications | 1. Model, make, and manufacturer — based on the selection results.  2. Year of manufacture — 2025.  1. Passenger capacity: 16–20 persons.  2. Cassette mounting: must ensure reliable installation on a multifunctional self-propelled mining vehicle.  3. Structural features:  • presence of seats with handrails and safety belts;  • protection of passengers from mechanical impacts during movement;  • ventilation solutions (if required);  • simplified installation and removal.  4. Manufacturing material: wear-resistant structural steel permitted for underground applications.  5. Dimensions:  • Length — subject to review;  • Width — subject to review;  • Height — subject to review.  **Note**: *Final dimensions must ensure safe accommodation of the declared number of personnel and meet clearance and movement requirements for the underground workings specified in Section 4.*  *Operating mode: continuous, round-the-clock operation; shift duration — 11 hours; 365 days per year.* |
| 6.2 | Electrical System Requirements | 1. System voltage — 24 V.  2. Yellow flashing beacon — 1 pc.  3. LED parking lights, brake lights, turn indicators, and system status indicators.  4. LED lighting for steps, service zones, and passenger cabin.  5. Electrical wiring in non-combustible and waterproof insulation. |
| 6.3 | Platform | 1. Load capacity — subject to review.  2. Lifting mechanism for installation on a self-propelled mining vehicle — required. |
| 6.4 | Cabin | 1. Cabin type: enclosed cabin with protection from falling objects / rollover (ISO 3449 / ISO 3471), ROPS and FOPS compliant.  2. Passenger seats equipped with fixed lap safety belts.  3. Heating / air conditioning — required.  Safety and information labels — in Russian. |
| 6.5 | Fire Protection System | 1. Portable fire extinguisher — 2 units. |
| 8 | Technical Documentation | 1. The Supplier shall provide complete accompanying technical documentation (certificates of conformity, technical passports, operation manuals, spare parts catalog, and other documents required for safe operation and customs/registration procedures in the Kyrgyz Republic).  2. Operation and maintenance manuals — 2 copies.  3. Spare parts catalog — 2 copies.  4. Documentation in PDF format on USB — 2 units.  5. Certificate of quality and origin.  *All documentation must be provided in both electronic and paper form, in Russian and English languages.* |
| 9 | Warranty Period | 1. The Supplier shall provide a warranty period for the supplied equipment of up to 24 months from the date of commissioning.  2. Availability of a service center and spare parts warehouse in the territory of the Kyrgyz Republic.  3. If no service center and spare parts warehouse are available in the Customer’s country, the Supplier shall ensure the necessary conditions to organize service maintenance and technical support in the Customer’s country. The equipment must be capable of continuous operation (24/7).  4. The Supplier shall conduct training of the Customer's personnel at the Kumtor mine. |
| 10 | Equipment Acceptance | Acceptance of the equipment by quality and quantity shall be carried out at the Kumtor mine site, with the participation of the Supplier’s representative. |
| 11 | Commissioning | 1. All costs for additional works identified during the equipment inspection shall be borne by the Supplier. |
| 12 | Quality Evaluation Criteria | 1. During the warranty period and after commissioning, the performance of the equipment shall be evaluated. Operational characteristics must correspond to factory specifications.  2. If any non-compliance with performance requirements is identified, the Supplier shall bear all costs associated with rectification. |
| 13 | Payment Terms and Delivery Time | 1. Payment terms — according to the Contract.  2. Delivery shall be carried out at the Supplier’s expense and by the Supplier’s means.  3. Delivery terms: for non-residents of the Kyrgyz Republic — DAP; for residents — DDP.  4. Delivery location: Kyrgyz Republic, Balykchy city, Narynskoye Highway, 9.  5. Delivery period — up to 160 calendar days from the date of Contract signing by the Parties.  6. Assembly and commissioning within the deadlines established by the Customer. |
| 14 | Technical Regulations and Standards | The equipment must comply with the requirements of the current Technical Regulations of the Customs Union (TR CU 010/2011) *“On Safety of Machinery and Equipment”* and other applicable EAEU standards (if required). |
| 15 | Safety | Brake interlock and overload protection systems, fire safety equipment, and lighting must comply with technical passports.Moving parts of the equipment that present hazards must be guarded, except where guarding is not possible for functional reasons. Guards must be supplied complete with mounting devices. |
| 16 | Note | The requirements specified in this Technical Specification are indicative and may be adjusted during discussions with potential suppliers. |

**Illustrative image from the internet**



