

TECHNICAL SPECIFICATION
of Auxiliary Ventilation Fans for the Underground Mining Operations of Kumtor Gold
Company CJSC

1.	General Provisions	This Technical Specification covers the supply of ten (10) sets of auxiliary ventilation fans intended for ventilation of development, preparation and production mine workings, providing an effective supply of fresh air, operating-mode control, and reversal of airflow. The equipment shall be new and unused. Year of manufacture: 2026 or later.
2.	Equipment Requirements	• Type: axial-flow fan • Impeller diameter: 900 to 1,000 mm • Performance: • Airflow rate: not less than 22 m³/s • Total pressure rise: not less than 3,700 Pa • Motor power: 75 to 125 kW • Rated speed: as specified by the manufacturer and sufficient to achieve the required airflow and pressure. • Supply voltage: up to 380 V • Motor degree of protection: not lower than IP55 • Insulation class: F • Energy efficiency class: IE2 • Conveyed air temperature: -35°C to +40°C • Noise level at a distance of 3 m: up to 80 dB • Service life: not less than 8 years • Drive: • AC squirrel-cage induction motor, duty type S1 • Moisture-resistant design • Terminal box located on top • Design: standard mining-duty design • Options: • Sealed motor • Dust-protection discs • Hard-coated impeller • Special coating • Protected terminal box • Overall dimensions: - Unit length: not more than 3,000 mm. - Housing height: not more than 1,500 mm. - Housing width: not more than 1,500 mm. - Weight: not more than 1,100 kg.

3.	Control Panel (Starter Cabinet) Requirements	Design • Enclosure: metal, mining-duty design • Mounting: wall-mounted • Degree of protection: not lower than IP65 Electrical parameters • Control: soft starter • Voltage: 200 to 690 V • Frequency: 45 to 65 Hz • Control voltage: up to 127 V • Ambient temperature: -10°C to +40°C Scope of supply • Main circuit breaker with emergency stop function • Integrated bypass contactor • Conformal-coated circuit boards • Supply and exhaust ventilation • PTC thermistor • Control and parameter-setting panel mounted in the enclosure door • Start/stop switch, fault reset, and indicator lights Options • RS232 interface or equivalent • Fieldbus systems: PROFIBUS, PROFINET, Modbus/TCP (Ethernet) • Remote control
4.	Scope of Supply	Auxiliary ventilation fan complete with starter/control cabinet - 10 sets. Each starter/control cabinet shall be manufactured, selected and configured for operation with the corresponding fan and shall ensure its normal and safe operation.
5.	Quality Evaluation Criteria	The equipment shall be evaluated during the warranty period after commissioning. Its performance shall conform to the manufacturer's specifications. If any non-compliance with the Purchaser's requirements is identified, the Supplier shall bear all costs associated with remedying such non-compliance.
6.	Delivery Terms	Delivery terms: EXW or FCA (the place of shipment shall be specified by the Supplier), or DAP: 9 Naryn Highway, Balykchy, Kyrgyz Republic, Incoterms® 2020.
7.	Delivery Time	Not more than 90 calendar days from the date the Contract is signed by both Parties.

8.	Installation and Commissioning	The Purchaser shall independently perform the installation, mounting and connection of the equipment; such works are not included in the Supplier's scope of obligations. All costs associated with remedying equipment defects identified during inspection, installation or commissioning shall be borne by the Supplier. If required, the Supplier shall provide remote (online) technical support and consultations. If difficulties arise during installation, configuration or commissioning, the Supplier shall, at the Purchaser's request, arrange for its specialist to visit the Purchaser's site to provide installation supervision and technical consultation.
9.	Warranty Period	The Supplier shall provide a warranty for the equipment of not less than 12 months from the date of commissioning.
10.	Technical Regulations and Standards	The equipment shall comply with the applicable technical regulations and other mandatory requirements of the Eurasian Economic Union (EAEU) relevant to this type of equipment, including Technical Regulation of the Customs Union TR CU 010/2011 "On Safety of Machinery and Equipment", where applicable to the proposed equipment.
11.	Documents to Be Provided upon Delivery	Together with the equipment, the Supplier shall provide a complete set of technical documentation required for transportation, customs clearance, installation, commissioning, safe operation and maintenance of the equipment, including, but not limited to: drawings; certificates of conformity (if applicable); certificates of quality / Certificates of Conformance; certificate of origin; technical passports/data sheets; operating manuals/instructions; electrical diagrams; spare-parts catalogue; packing lists; factory test reports; and other documents issued or required by the manufacturer. All documents shall be provided in both electronic and hard-copy form, in Russian and English.
12.	Note	The requirements specified in this Technical Specification are indicative and may be adjusted during discussions with potential suppliers.