**TERMS OF REFERENCE**

**for the purchase of a Volvo FMX 460 truck tractor for Mine Operations Department, Kumtor Gold Company CJSC**

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| **Item****№** | **List of basic** **data and requirements** | **Basic data and requirements** |
| 1. | Delivery location | Issyk-Kul Region, Jeti-Oguz District, Kumtor Gold Mine |
| 2. | Client  | Kumtor Gold Company CJSC |
| 3. | Subject of the purchase | Truck tractor to transport pit equipment, wheeled and tracked machinery. |
| 4. | Purpose of the purchase | Replacement of obsolete equipment. |
| 5. | General requirements/Regulations and standards | 1. The truck tractor unit to be delivered shall be new, not used.
2. The truck tractor shall be able to operate in high altitude conditions above 4,000 m above sea level, at the temperatures from - 35℃ to +40℃.
3. The delivered equipment shall not be pledged, under arrest or under any other encumbrance.
4. The equipment shall be complete with all necessary User Manuals and Technical Documentation. Technical documentation and User Manuals, as well as other documentation, shall not be provided as copies.
5. The truck tractor shall comply with the quality requirements established by technical regulations, standardization documents, state standards applicable to this type of goods and valid in the territory of the Kyrgyz Republic and the EAEU.
6. The required technical specifications are provided in Appendix 1 (on three pages).
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| 6. | Payment and delivery terms | 1. 50% prepayment and 50% payment after commissioning.
2. The truck tractor shall be delivered by the manufacturer to the BMY within the deadlines specified by the Client.
3. The truck tractor shall be assembled and commissioned by the manufacturer within the deadlines specified by the Client.
4. In case of failure to comply with the terms, penalties shall apply.
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| 7. | Warranty period | 1. The Supplier shall provide a warranty period for the purchased equipment in accordance with the manufacturer's terms and conditions.
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| 8. | Client's services | 1. The manufacturer's employees performing assembling and debugging of the trailer at the mine site will be accommodated in the residential camp.
2. Internal transport.
3. Meals.
4. Additional services will be provided upon prior request of the Contractor for a separate fee.
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| 9. | Assembly, acceptance, transfer, and commissioning | 1. The Supplier shall complete assembly, adjustment, and commissioning work in full.
2. Acceptance Certificate shall be signed after the truck tractor has been fully assembled and commissioned.
3. All costs for additional work identified during the equipment inspection shall be borne by the Supplier.
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| 10. | Training and operation manual | 1. The Supplier shall train personnel on maintenance and operation of the truck tractor.
2. Operation manual for the truck trailer (electronic, paper version) shall be provided (including in Russian language).
3. Spare parts catalogue (electronic, paper version) shall be provided.
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| 11. | Quality evaluation criteria | 1. After commissioning, the equipment shall be evaluated during the warranty period and shall comply with the manufacturer's stated specifications.
2. In the event of non-compliance with the requirements, the manufacturer shall bear all costs for its elimination.
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| 12. | Confidentiality | 1. The transaction data shall be confidential. The Contractor shall be liable for disclosure to third parties.
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| 13. | Environmental requirements | 1. All works shall be conducted in accordance with the KGC internal regulations.
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| 14. | Safety | 1. The truck tractor shall comply with the safety requirements established by the applicable legislation of the Kyrgyz Republic.
2. All works shall be conducted in accordance with the KGC internal regulations.
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**Appendix 1 to the Terms of Reference**

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| **Parameters** | **Value** |
| General information |  |
| Purpose of the equipment | The truck tractor shall be designed to operate as a base tractor to transport semi-trailers with fully loaded mass up to 100 tons. |
| Color | White |
| Engine |  |
| Engine type | Diesel |
| Power, kW (hp) | 338 kW (460 hp) |
| Volume, cm3 | At least 12,000 |
| Exhaust emission level (environmental class) | Not lower than EURO-5 |
| Electronic speed limiter, km/h | Max. 80  |
| Motor brake | Yes |
| Chassis |  |
| Wheel configuration  | 6х4 |
| Loading capacity | At least 85 tonnes |
| Truck roof lights, with a switch | Yes |
| Sound signal (pneumatic/electric) | Yes |
| Automatic reverse beeping sound | Yes |
| Single/double-tire wheel | Double |
| Cab interior equipment |  |
| Cab interior lighting, basic version | Yes |
| Driver's seat with air suspension | Yes |
| Reach and tilt adjustable steering wheel | Yes |
| Left-hand steering gear | Yes |
| Air conditioner | Yes |
| Display language | Russian is preferred |
| Headlight level adjuster | Preferred |
| Basic audio system | Yes |
| Fifth wheel coupling |  |
| Height of fifth wheel coupling (as agreed with the Client, depending on the semi-trailer), mm | At least 1,300  |
| Coupling kingpin diameter, inch | 3 1/2 |
| Load on fifth wheel coupling, kg  | At least 85,000 |
| Lighting lamp of fifth wheel coupling | Yes |
| Volume and weight |  |
| Unladen weight, kg | At least 10,000  |
| Gearbox |  |
| Type (automatic/ mechanical) | - |
| Number of gears | 10 or more |
| Differential locking  | Yes |
| Brake system |  |
| Type | Pneumatic |
| Anti-lock brake system (ABS) | Yes |
| Electronic Brake Control System (EBS) | Yes |
| Fuel system |  |
| Fuel tank, l | At least 600 l |
| Lockable fuel tank cap  | Yes |
| Fuel tank shall be located away from the battery or separated from it by an impermeable partition and away from the engine, electrical wiring, and exhaust pipe. Fuel tank shall be equipped with shields on side walls and bottom. | Yes |
| Electric fuel line heater | Yes |
| Exhaust system |  |
| Exhaust pipe shall be routed forward or, if structurally impossible, out of the fuel lines and fuel tank area. | Base exhaust on the left side/with vertical silencer with spark arrestor |
| Silencer heat shield | Silencer protector |
| Electrical equipment |  |
| Number of battery packs | 2 |
| Battery capacity, A | 210 |
| Battery shall be in a ventilated compartment made of metal or other material of equivalent strength with insulating inner walls. | Yes |
| On-board voltage, V | 24 |
| Headlights (low and high beam) and fog lights | Yes |
| Reversing lights and fog light | Yes |
| Front and rear parking lights  | Yes |
| Flashing light on cab (Yellow) | Yes |