

# **Terms of Reference for the Purchase of Equipment for JSC RMG GROUP**

## **Lime-Burning Kiln**

Tbilisi  
2024

## 1. GENERAL DATA

1	Basis for purchase	Lime-burning plant
2	Type of work	New construction
3	Customer organization, legal and postal address	JSC RMG Copper, village Kazreti, Bolnisi Region, Georgia
4	Name of object	Lime
5	Project code	P23/11 Lime
6	Location of project object	JSC RMG Copper, village Kazreti, Bolnisi Region, Georgia
7	Delivery terms	2024 (to be specified when concluding the contract)

### Features and parameters

1	Type of equipment	Burning kiln
2	Climate version	Moderate
3	Equipment utilization rate	0.9
4	Maximum ambient air temperature, °C:	39
5	Minimum ambient air temperature,, °C:	-24
6	Demand in finished product (lime))	4000 t/month
7	Activity of produced lime	90%
8	Productivity of the equipment for the finished product	6 t/h
9	Fuel used	Natural gas

### Preliminary characteristics of the feedstock

Chemical component	Content
CaO	49.70%
MgO	0.24%
SiO <sub>2</sub>	8.83%
Al <sub>2</sub> O <sub>3</sub>	0.98%
Fe <sub>2</sub> O <sub>3</sub>	0.43%
K <sub>2</sub> O	0.02%
Na <sub>2</sub> O	0.18%
P <sub>2</sub> O <sub>5</sub>	0.05%

## 2. 3.2BASIC TECHNICAL AND TECHNOLOGICAL REQUIREMENTS FOR THE MTP

2.1 The design and material characteristics of parts and systems shall be suitable for the climatic conditions and enable quick replacement of wear parts at the installation site.

2.2 The guaranteed life of the electric motor shall not be less than 10,000 hours.

### **3. REQUIREMENTS FOR ELECTRICAL EQUIPMENT**

Cable and wiring products should be flexible (with stranded wires) with non-flammable insulation that does not lose plasticity at temperatures from +45 to -15°C.

The equipment must be explosion-proof. .

### **4. REQUIREMENTS FOR CONTROL INSTRUMENTATION**

The equipment must be explosion-proof.

### **5. WARRANTY PERIOD CONDITIONS**

The warranty period is 12 months from the date of completion of the acceptance test or 24 months from the date of delivery to the customer's warehouse. In case of suspension of operation due to the supplier, the warranty period is extended for the period of downtime.

### **6. COMPLETENESS OF GOODS**

<b>NN</b>	<b>Name</b>	<b>Quantity, UoM</b>
1	Burning kiln	1 piece
2	Gas blower	1 piece
3	Elevator conveyer	1 piece
4	Gas purifying plant	1 piece
5	Set of spare parts for repair for the period of operation 24 months.	1 set

The supplier may offer a different set of goods for a complete start-up.

## 7. LIST OF REQUIRED DOCUMENTATION

The Supplier shall provide the Customer with the following technical documentation:

NN	Documentation	Deadline **
1	Drawings of general views and assembly units	10 days after signing the contract
2	Assembly and installation drawings for the installation of the equipment (including non-standard equipment)	30 days after signing the contract
3	Specification of products and materials	30 days after signing the contract
4	Operation Manual, including sections on technical description of the equipment, instructions for operation, maintenance, installation (including slinging diagrams), start-up, adjustment, repair, safety), reports and certificates of factory tests, measurements and adjustment.	30 days after signing the contract
5	Passports for the equipment with recommendations for installation with technical description	30 days after signing the contract
6	Circuit diagrams and wiring diagrams	10 days after signing the contract
7	Wiring diagrams of instrumentation and control systems	10 days after signing the contract
8	Specification of products and materials	10 days after signing the contract
9	Technical specifications for operation and installation	10 days after signing the contract
10	Spare parts catalogue specifying the manufacturer and catalogue number	30 days after signing the contract
11	Cable log	30 days after signing the contract

\*\* Drawings should be provided electronically in dwg and pdf format.

Documentation shall be provided in English, Russian.

## 8. PACKAGING REQUIREMENTS

The equipment must be prepared for transport in accordance with the rules of road transport on federal roads of Georgia.

## 9. ADDITIONAL CONDITIONS

9.1. The Supplier shall carry out supervision and commissioning works;

9.2 The Supplier shall provide training of personnel on operation, maintenance and repair. The cost of training shall be included in the delivery price;

9.3 The Supplier shall carry out acceptance tests at the site within 72 hours and ensure commissioning;

9.4 During the acceptance tests, the equipment shall confirm compliance with the technical parameters, according to the operating instructions and terms of reference.

#### **10. INVOLVEMENT OF SUB-SUPPLIERS**

Allowed by agreement with the Customer.

#### **11. TERMS OF DELIVERY**

The Goods shall be delivered on the terms: DDP station of urban-type settlement Kazreti , Georgia.