

Request for Proposal



Valves

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1 INTRODUCTION AND PROJECT DESCRIPTION

JSC RMG Auramine is carrying out the detailed engineering of its new Tailings Storage Facility (TSF) and is requesting the proposals for procuring the valves needed within tailings thickening area and long-distance pipeline. The site is located in southern Georgia (Eastern Europe), approximately 80 km southwest from capital Tbilisi, near the town of Bolnisi. Site access will be via paved local roads. Refer to figure 1 for general site location

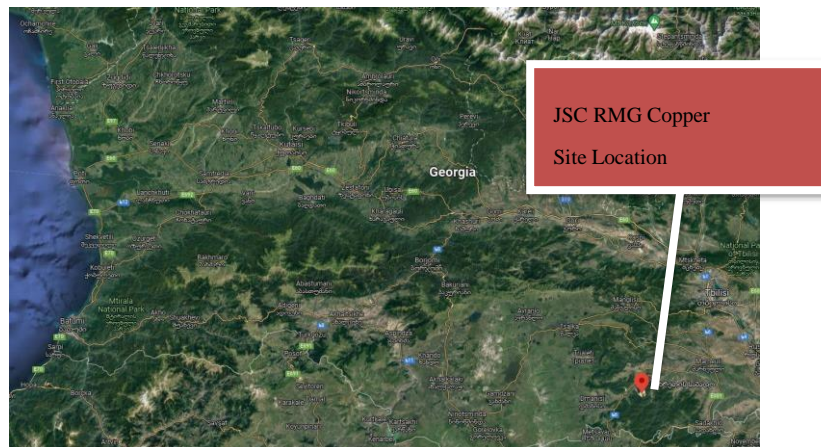


Figure 1: JSC RMG Copper, Site location

The present document covers and provides the minimum requirements and specifications needed for manual valves, on/off valves, control valves and self-acting pressure regulators for tailings thickening and the tailings long-distance transport areas.

Complete, technical and commercial proposals to be submitted in electronic format.

2 CLOSING DATE

Technical and Commercial Proposals to be sent no later than 5:00PM EET on August 21, 2023

3 SUBMISSIONS

The documents and all drawings, design, specifications and other data appended or related to it are the property of JSC RMG Auramine and are supplied only for the purpose of enabling each potential bidder to prepare and submit a proposal package. The information contained or referred to in the RFP documents or appended to it is not to be disclosed or released for any other use or purpose.

4 PRICING

A lump sum with fixed and firm prices, in USD (\$) or Euros (€), without subjected price escalation and exclusive of local taxes must be furnished for all items included in chapter 5 – Scope of delivery.

Prices for all valves should consider 2 options:

Option Price a: Valves to be stainless steel

Option Price b: Valves to be on carbon steel

Option Price c: Valves to be on polytetrafluoroethylene (PTFE)

Price detail must be incorporated in the corresponding cells of the attached annexes 1, 2 and 3 that include Control, On-off and Manual valves.

5 SCOPE OF DELIVERY

The offer will cover the provision of complete packages of Control, On-off and Manual valves. The valves should be selected to be used in one of the following applications:

- Process water (WPR);
- Slurry (PFT);
- Flocculant (LFR);
- Gland Seal Water (WFR);
- Process water (WPR);
- Air.

All automatic valves should be complete with the control loop including the signal transmitter and positioner, as well as all automatic valves with local control to allow DCS connection if needed.

All valves are pneumatic actuated.

Detailed tables including valve type, process medium, Pressure class (PN), Diameter (DN), Tags among other relevant technical requirements are attached in appendix 1, 2 and 3.

6 TECHNICAL SPECIFICATION

6.1 Slurry (PFT)

Control valves

- Knife gate valves:
 - Diameter 200 mm, Cl.150 / AISI 316 or carbon steel.

On-off valves

- Ball valves:
 - Diameter from 50 to 400 mm, Cl.150 / AISI 316 or carbon steel;
 - Diameter 400 mm, Cl.300 / AISI 316 or carbon steel.
- Knife gate valves:
 - Diameter from 250 to 600 mm, Cl.150 / AISI 316 or carbon steel;
 - Diameter 300 mm, Cl.300 / AISI 316 or carbon steel.
- Plug valves:
 - Diameter from 300 to 400 mm, Cl.150 / AISI 316 or PTFE.

Manual Valves

- Ball valves:
 - Diameter from 50 to 400 mm, Cl.150 / AISI 316 or carbon steel.
- Check valve:
 - Diameter 400 mm, Cl.150 / Stainless steel or carbon steel.
- Knife Gate valves:
 - Diameter from 50 to 600 mm, Cl.150 / Stainless steel or carbon steel;
 - Diameter 300 mm, Cl.400 / Stainless steel or carbon steel.
- Square Knife Gate Valves:
 - Diameter 1000*1000 mm, Cl.150 / Stainless steel or carbon steel.

6.2 Flocculant (LFR)

On-off valves

- Ball valves:
 - Diameter 80 mm, Cl.150 / AISI 316 or carbon steel.

Manual Valves:

- Check valves:
 - Diameter 80 mm, Cl.150 / Stainless steel or carbon steel.

6.3 Gland Seal Water (WFR)

Control valves

- Segment valve:
 - Diameter 65 mm, Cl.150 / AISI 316 or carbon steel.

On-off valves

- Ball valves:
 - Diameter 65 mm, Cl.150 / AISI 316 or carbon steel;
 - Diameter from 32 to 65 mm, Cl.300 / AISI 316 or carbon steel.

Manual Valves

- Ball valves:
 - Diameter from 15 to 200 mm, Cl.150 / Stainless steel or carbon steel;
 - Diameter from 15 to 65 mm, Cl.300 / Stainless steel or carbon steel.
- Check valves:
 - Diameter 15 mm, Cl.150 / Stainless steel or carbon steel;
 - Diameter from 32 to 65 mm, Cl.300 / Stainless steel or carbon steel.

6.4 Process water (WPR)

Control valves

- Ball valves:
 - Diameter from 100 to 200 mm, Cl.150 / AISI 316 or carbon steel.
- Segment valve:
 - Diameter 350 mm, Cl.150 / AISI 316 or carbon steel.

On-off valves

- Ball valves:
 - Diameter from 80 to 400 mm, Cl.150 / AISI 316 or carbon steel;
 - Diameter from 25 to 250 mm, Cl.300 / AISI 316 or carbon steel.
- Knife gate valves:
 - Diameter from 400 to 500 mm, Cl.150 / AISI 316 or carbon steel.

Manual valves

- Ball valves:
 - Diameter from 15 to 500 mm, Cl.150 / Stainless steel or carbon steel;
 - Diameter from 25 to 250 mm, Cl.300 / Stainless steel or carbon steel.
- Check valves:
 - Diameter from 50 to 400 mm, Cl.150 / Stainless steel or carbon steel;
 - Diameter from 25 to 250 mm, Cl.300 / Stainless steel or carbon steel.
- Knife gate valves:
 - Diameter from 125 to 400 mm, Cl.150 / Stainless steel or carbon steel;
 - Diameter 250 mm, Cl.300 / Stainless steel or carbon steel.
- Vacuum breaker valve:
 - Diameter 400 mm, Cl.150 / Stainless steel or carbon steel.

6.5 Air

- Ball valves:
 - Diameter 200 mm, Cl.150 / Stainless steel or carbon steel.

Specification given bellow are minimum requirement to be considered by the vendor. Equivalent or better specification should be adopted by the vendor. More process information is given in the appendix 1 to determine chemical compatibility, physical design specifications

and sizing. European Standards should be used for flanges and couplings.

Each valve should be tagged as given in the appendices.

Control Loop

- **ON/OFF Valves:**
- **Automatic Control Valves.**
 - Positioner feed-back: 4-20mA (loop 3)

7 DESIGN INFORMATION

7.1 Site and Operation Conditions

General Data		
Latitude	° / min / sec	41°22'35" N
Longitude		44°25'30" E
Altitude approx. in m (MSL)	m	742
Maximum temperature, celcius degrees	°C	40
Minimum temperature, celcius degrees	°C	-25
Rainfall (snow+water), mm H ₂ O	mm	740
Average snow cover approx. in cm	cm	12
Relative humidity	%	76 (average)

Seismicity Parameters

Annual Exceedance Probability (AEP)	MSK-64	PGA (g)
1:1,000 year (5% in 50 years)	8	0.20 - 0.30
1:2,500 year (2% in 50 years)	9	0.20 - 0.30
1:5,000 year (1% in 50 years)	9	0.30 - 0.40

General Operation Values

Annual operation time	h	8200
Annual throughput	t/a	3000000
Average throughput		366

8 SUBMISSION REQUEST

It is obligatory to fill in the enclosed appendices, including links to proposed valves

datasheets along with submitting summary proposal covering the following required information.

The technical proposal must include the following documentation:

- Technical specification.
- Installation, Operations and Maintenance Manuals (can be provided later by shortlisted companies).
- List of equipment
- General arrangement drawings for offered equipment
- List of Certifications and tests to be performed during the delivery of valves.

The commercial proposal must include but not limited to:

- Validity of proposal
- References of the mining companies where the vendor's products were installed by indicating the company/project name, year of installation.
- Total summary of proposed budget by valve types
- Priced to be added to individual valve line in the attached valve lists (appendices)
- Spare parts lists (including price breakdown) needed for commissioning/start-up and 2 years maintenance (at vendor's discretion).
- Support in installation and commissioning (ideally anticipated budget with indication of daily rate if not only daily rate).
- Delivery terms (no ex-works terms accepted) and general sales conditions.
- Guaranty terms
- Payment terms

9 ATTACHMENTS TO THIS REQUEST FOR PROPOSAL

Appendix 1: Control valve list;
Appendix 2: On-off valve list;
Appendix 3: Manual valve list.