

# Technical requirements for RIO Cabinet supply

## 1. GENERAL DATA

1	Basis for purchase	Flotation Upgrade Project
2	Type of work	Construction, Brownfield
3	Customer	JSC RMG Copper, Georgia, Bolnisi region, Kazreti village area
4	Object name	Flotation Area, Copper Concentrating Plant
5	Project code	P24/17
6	Equipment to be supplied	Remote IO cabinet
7	Delivery time, until	1st of April, 2025

### Company must have:

- All licenses/permits to carry out the relevant type of work;
- Experience in implementing projects using control system equipment and software similar to those used in the Company;
- Availability and sufficiency of free production capacity, qualified personnel necessary to perform the scope of work specified in the technical specifications.

### The list of works of the Supplier must include, but not be limited to the following requirements:

- Collection of initial data to clarify details regarding the connection of signals of the designed equipment;
- Elaboration of design documentation for all cabinets, including wiring diagrams, specifications (bill of materials), layout drawings.
- Manufacturing, packaging and supplying cabinets;

## 2. WARRANTY

- Supplier must ensure that the quality of all supplied equipment meets this technical specification;
- Supplier ensures protection of all supplied equipment from manufacturing defects;
- The warranty period is 18 months from the date of completion of acceptance tests and delivery of equipment.
- Supplier is obliged to eliminate free of charge all defects in the equipment supplied to the Customer, repair and/or replace any defective/faulty components during the warranty period.

No	Name/Type	Description	Quantity
General			
1.1	Cabinet IP rating	IP55	
1.2	Power supply	220 V AC 1ph from UPS	
1.3	DC Power Source	24 V DC Power supply (20 A)	
1.4	Lighting, pocket for documentation	yes	
1.5	Terminals	Spring loaded type, 2,5 mm2 wire max, fuse protection for +24V terminal in each control/instrumentation loop	
1.6	Mounting	Stand alone	
1.7	Dimensions	1600 x 2000 x 500 mm, 2 doors (approximately)	
1.8	Material	Enclosure: Sheet steel 1.5 mm Door: Sheet steel, 2.0 mm Rear panel: Sheet steel, 1.5 mm Gland plates: Sheet steel, 1.5 mm Mounting plate: Sheet steel, 3.0 mm	
1.9	Surface finish	Enclosure, door and rear panel: dipcoat-primed, powder-coated on the outside, textured paint Mounting plate and gland plates: Zinc-plated	
1.10	Color	RAL7035	
1.11	Earthing	2 independent ground bars (electrical and instrumentation earthing)	
1.12	Cable entrance	Bottom	
1.13	Cooling system	1 FAN with dust filter	
Rack 1			
2.1	5094-AEN2TR	EtherNet Adapter supports up to 16 local I/O modules (includes (1) 5094-AENRTB: 5094 Adapter RTB - Screw type	1
2.2	5094-IF8	Analog input, 8-channel	7
2.3	5094-OF8	Analog output, 8-channel	3
2.4	5094-MB	Mounting base	10
2.5	5094-RTB3S	Removable Terminal Block - Spring type	10
Rack 2			
2.6	5094-AEN2TR	EtherNet Adapter supports up to 16 local I/O modules (includes (1) 5094-AENRTB: 5094 Adapter RTB - Screw type	1
2.7	5094-MB	Mounting base	4
2.8	5094-IB32	Digital input-24V DC, 32-point sinking digital input	2
2.9	5094-RTB32VS	32-point Removable Terminal Block - Spring type	2
2.10	5094-OB32	Digital output -24V DC, 32-point sourcing digital output	2
2.11	5094-RTB32CS	32-point Removable Terminal Block - Spring type	2

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