

# Technical requirements for RIO Cabinet supply

## 1. GENERAL DATA

1	Basis for purchase	Construction of Beqtaqary Plant
2	Type of work	Construction, Greenfield
3	Customer	JSC RMG Auramine, Georgia, Bolnisi region, Kazreti village area
4	Object name	Grinding Area
5	Project code	P23/5
6	Equipment to be supplied	RIO cabinet;
7	Delivery time, until	23th of December, 2024 r.

### **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:**

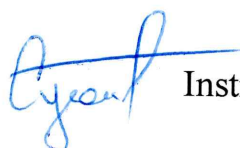
- Collection of initial data to clarify details regarding the connection of signals of the designed equipment;
- Elaboration of design documentation for all cabinets, including wiring diagrams, specifications (bill of materials), layout drawings.
- Manufacturing, packaging and supplying cabinets;

## 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
<b>RIO Cabinet</b>			
1.1	1783-CMS10DP	Stratix 5200 switch, 8 copper 100/1000 ports, 2 Combo 100/1000 ports, full FW, DLR	1
1.2	PLX32-EIP-MBTCP	EtherNet/IP to Modbus TCP/IP Communication Gateway	1
1.3	PLX32-EIP-PND	EtherNet/IP to PROFINET Communication Gateway	2
1.4	5094-AEN2TR	EtherNet Adapter supports up to 16 local I/O modules (includes (1) 5094-AENRTB: 5094 Adapter RTB - Screw type	1
1.5	5094-IF8	Analog input, 8-channel	2
1.6	5094-OF8	Analog output, 8-channel	1
1.7	5094-MB	Mounting base	3
1.8	5094-RTB3S	Removable Terminal Block - Spring type	3
1.9	5094-MB	Mounting base	6
1.10	5094-IB32	Digital input 24V DC, 32-point sinking digital input	2
1.11	5094-RTB32VS	32-point Removable Terminal Block - Spring type	2
1.12	5094-OB32	Digital output 24V DC, 32-point sourcing digital output	2
1.13	5094-RTB32CS	32-point Removable Terminal Block - Spring type	2
1.14	Finder relay Type 93	10 last spare digital inputs should be galvanically isolated with relays with 24 V DC coils; 10 last digital outputs should be galvanically isolated with relays with 24 V DC coils;	20
1.15	Cabinet IP rating	IP55	
1.16	Power supply	220 V AC 1ph from UPS	
1.17	DC Power Source	24 V DC Power supply (10 A)	
1.18	Lighting	yes	
1.19	Terminals	Spring loaded type, 2,5 mm <sup>2</sup> wire max, fuse protection for +24V terminal in each control/instrumentation loop	
1.20	Mounting	Wall-mounted	
1.21	Dimensions	Approximately 1200 x 1200 x 350 mm, 2 doors	
1.22	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	
1.23	Surface finish	Enclosure, door and rear panel: dipcoat-primed, powder-coated on the outside, textured paint Mounting plate and gland plates: Zinc-plated	
1.24	Color	RAL7035	
1.25	Earthing	2 independent ground bars (electrical and instrumentation earthing)	
1.26	Cable entrance	Bottom	
1.27	Cooling system	1 FAN with dust filter	

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