

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 г.

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
RIO Cabinet			
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 ² 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	

Elaborated by: Ruslan Suiunov  Instrumentation and Control system Engineer