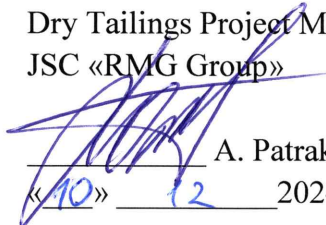




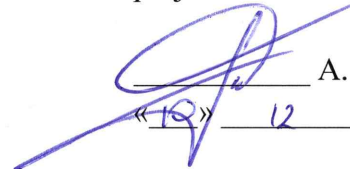
**CONFIRMED:**

Dry Tailings Project Manager  
JSC «RMG Group»

  
\_\_\_\_\_  
A. Patrakeev  
«10» 12 2024 г.

**APPROVED:**

Managing director for production  
projects JSC "RMG Group"

  
\_\_\_\_\_  
A. Nemokaev  
«19» 12 2024 г.

**Technical requirements for process control cabinets**  
Tailings Press-Filter Area

Tbilisi, 2024

## 1. GENERAL DATA

1	Basis for purchase	Dry tailings project, enrichment plant Madneuli
2	Type of work	Construction, Greenfield
3	Customer	JSC RMG Copper, Georgia, Bolnisi region, Kazreti village area
4	Object name	Tailings Press-Filters area
5	Project code	P23/1Dry
6	Equipment to be supplied	1. RIO cabinet; 2. HMI cabinet.
7	Delivery time, until	30th of April, 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 products, including wiring diagrams, specifications (bill of materials), layout drawings;
- Manufacturing, packaging and supplying RIO cabinet according to “LCP-FP011 Wiring Diagram” and HMI cabinet;
- Providing Factory acceptance tests together with a customer.

## 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.

### 3. MAIN TECHNICAL REQUIREMENTS

No	Name/Type	Description	Quantity
RIO Cabinet			
General			
1.1	1783-SFP1GLX	1000LX SFP Fiber Transceiver	2
1.2	Cabinet IP rating	IP55	
1.3	Power supply	220 V AC 1ph from UPS	
1.4	DC Power Source	24 V DC Power supply (20 A)	
1.5	Lighting, portable table, pocket for documentation	yes	
1.6	Terminals	Spring loaded type, 2,5 mm2 wire max	
1.7	Mounting	Stand alone	
1.8	Dimensions	800 x 2200 x 500 mm, 2 doors	
1.9	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	
1.10	Surface finish	Enclosure, door and rear panel: dipcoat-primed, powder-coated on the outside, textured paint Mounting plate and gland plates: Zinc-plated	
1.11	Color	RAL7035	
1.12	Earthing	2 independent ground bars (electrical and instrumentation earthing)	
1.13	Cable entrance	Top and bottom	
1.14	Cooling system	1 FAN with dust filters	
Rack 1			
1.15	5094-AEN2TR	EtherNet Adapter supports up to 16 local I/O modules (includes (1) 5094-AENRTB: 5094 Adapter RTB - Screw type	1
1.16	5094-IF8	Analog input, 8-channel	6
1.17	5094-RTB3S	Removable Terminal Block - Spring type	6
1.18	5094-IB32	Digital input-24V DC, 32-point sinking digital input	3
1.19	5094-RTB32VS	32-point Removable Terminal Block - Spring type	3
1.20	5094-OB32	Digital output -24V DC, 32-point sourcing digital output	2
1.21	5094-RTB32CS	32-point Removable Terminal Block - Spring type	2
1.22	5094-MB	Mounting base	11
NOTE: all necessary specification for interior of RIO cabinet is described in “LCP-FP011 Wiring Diagram”			
StandAlone HMI (mounted on a cabinet door 1000 x 1000 x 300)			
2.1	6300P-240ACPMFDNB-5CBBW19NNNBNN-NN1S	VersaView 6300P Panel PC, 24"A+C488+D482:I482+D482:K483+D482+D482:I482, Panel, Multi-touch (PCAP), 16:9 1920x1080, 24 VDC isolated, Fanless , 1 PCI/PCIe, Intel Core i5, 8GB RAM, Windows 10 IoT LTSC (2019), 256 GB SSD 2.5 TLC, No pre installed Rockwell Automation Software, Standard Warranty, Allen-Bradley Branded Bezel	1
2.2	Cabinet IP rating	IP55	
2.3	Power supply	220 V AC 1ph from UPS	
2.4	DC Power Source	1x 24 V DC, 10A.	
2.5	Lighting, pocket for documentation	yes	



2.6	Terminals	Spring loaded type, 2,5 mm <sup>2</sup> wire max, fuse protection for +24V terminal in each control/instrumentation loop	
2.7	Mounting	Wall-mounted	
2.8	Dimensions	1000 x 1000 x 300 mm	
2.9	Material	Enclosure frame: Sheet steel, 1.5 mm Roof: 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	
2.10	Surface finish	Enclosure, door and rear panel: dipcoat-primed, powder-coated on the outside, textured paint Mounting plate and gland plates: Zinc-plated	
2.11	Color	RAL7035	
2.12	Earthing	2 independent ground bars (electrical and instrumentation earthing)	
2.13	Cable entrance	Bottom	
2.14	Cooling system	FAN with dust filter	

Elaborated by: Ruslan Suiunov

Instrumentation and Control system Engineer