

1. GENERAL

Technical requirements for a Thickener and Press-Filter integration to an existing DCS.

1.1	Contractor Address:	JSC «RMG GROUP»
1.2	Location of the design object:	Tbilisi
1.3	Property Address:	JSC «RMG Group», Georgia, Tbilisi, Avlabi National village
1.4	Estimated delivery time:	09.2023-10.2023 (from the date of completion of the contract)

2. MAIN REQUIREMENTS

Approved:

2.1	Structure of the control unit:	<ol style="list-style-type: none"> Thickener 323-T145 Filter Press 325-F1 400 <p>The equipment mentioned in the PLC's need to be integrated into the existing DCS.</p> <ol style="list-style-type: none"> Motor control system: 12 	<p>Chief Executive Director JSC «RMG Group»</p> <p><i>J. Shubitidze</i> J. Shubitidze</p> <p>«__» _____ 2023</p>
2.2	PLC Code type:	Ladder Diagram, IEC 61131-2	Confirmed:
2.3	Number of I/Os:	<ol style="list-style-type: none"> Total AI: 16 Total AO: 8 Total DI: 32 Total DO: 32 	<p>Chief Operating Director JSC «RMG Group»</p> <p><i>S. Berezikov</i> S. Berezikov</p> <p>«06» 06 2023</p>
2.4	Integration of HMI screens related to Press Filter & Filter Press DCS, integration of PLC code based on PLC accordance with P&ID diagrams and control policies.		
2.5	Participation in Commissioning of the equipment mentioned above (14 days)		

3. ADDITIONAL INFORMATION

3.1	Contractor must:	<p>use Rockwell Automation components</p> <p>have all licenses needed for work execution and provide FAT before integration and commissioning</p>
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4. ATTACHMENT

Tbilisi 2023

JSC RMG Copper

№ 115.134

№ 07 06 2023

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Approved by [Signature]

1. GENERAL

1.1	Project	Upgrade of Filtration-drying unit, installation of an additional press filter and thickener
1.2	Area	Mining, Copper concentrating plant
1.3	Contracting Authority, Legal and Postal Address	JSC RMG Group, Georgia, Bolnisi district, Kazreti village
1.4	The name of the design object	FSO unit
1.5	Property Location	JSC RMG Group, Georgia, Bolnisi district, Kazreti village
1.6	Estimated delivery time	09.2023-10.2023 (from the date of conclusion of the contract)

2. MAIN REQUIREMENTS

2.1	Integration to DCS network of following units	<ol style="list-style-type: none"> 1. Thickener 325-TH-001 (Simatic DP CPU 1512SP F-1 PN) 2. Filter Press 325-FL-001 (SIMATIC S7-1200) <p><i>The equipment mentioned above have its own local PLC's. These PLC's need to be connected to a DCS for monitoring and centralized control.</i></p> <ol style="list-style-type: none"> 3. Motor control centers: 12 VSDs and 7 DOLs.
2.2	PLC Code type	Ladder Diagram, IEC 61131-3
2.3	Number of IOs	<ol style="list-style-type: none"> 1. Total AI: 16 2. Total AO: 8 3. Total DI: 32 4. Total DO: 32
2.4	Elaboration of HMI screens related to Press Filter and Thickener areas in Rockwell PlantPax DCS, elaboration of PLC code based on Rockwell Studio 5000 (version 32) in accordance with P&ID diagrams and control philosophy.	
2.5	Participation in Commissioning of the equipment mentioned above (14 days)	

3. ADDITIONAL INFORMATION

3.1	Contractor must	<ul style="list-style-type: none"> - be Rockwell Automation expert - have all licenses needed for work execution - provide FAT before integration and commissioning
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4. ATTACHMENT

1. P1384-325-PID-001-7_Zn TAILINGS DEWATERING

Cyril Curov P.

