

	Client No: 28C3-D-4IN-MRQ-033-0000-00-ME-0293	Rev
Class: FI	Document No: 12002-D-ME-MRQ-303-FLO-293	Client
	Library Code: 303-E03-0000-00-ME-MRQ-293-02	02
	Document Title: Material Requisition for Flotation Area	00
		Date: 2026-08-08
		Page 2 of 31

Tabulation of Revised Page

Sheet	Revisions						Sheet	Revisions					
	00	01	02	03	04	05		00	01	02	03	04	05
1	X	X					32						
2	X	X					33						
3	X	X					34						
4	X	X					35						
5	X	X					36						
6	X	X	X				37						
7	X	X					38						
8	X	X					39						
9	X	X					40						
10	X	X					41						
11	X	X					42						
12	X	X					43						
13	X	X					44						
14	X	X					45						
15	X	X					46						
16	X	X					47						
17	X	X					48						
18	X	X	X				49						
19	X	X					50						
20	X	X					51						
21	X	X					52						
22	X	X					53						
23	X	X					54						
24	X	X					55						
25	X	X					56						
26	X	X					57						
27	x	X	X				58						
28	x	X					59						
29		X					60						
30							61						
31							62						

	Client No: 28C3-D-4IN-MRQ-033-0000-00-ME-0293	Rev		Date:2026-08-08
Class: FI	Document No: 12002-D-ME-MRQ-303-FLO-293	Client	Vendor	Page 3 of 31
	Library Code: 303-E03-0000-00-ME-MRQ-293-02	02	00	
	Document Title: Material Requisition for Flotation Area			

Contents

1. Introduction	5
1.1 General	5
1.2 Definitions.....	5
1.3 Project information	6
1.4 Contractual Languages.....	6
1.5 Nameplate & Labels	6
1.6 Units.....	6
2. Site condition.....	6
3. Purpose	7
4. Applicable codes & standards	7
5. Requisition summary of project	7
6. Scope of work.....	11
7. Scope of supply	12
8. Bid requirements.....	15
9. Documentation.....	15
9.1 documents submitted by purchaser	15
9.2 documents to be submitted by supplier (before contract).....	20
9.3 Documents to be submitted by contractor (after contract).....	22
10- Inspection and test.....	24
11- Packing and Marking	26
12- Guarantee	26
12.1 Performance guarantee figures for capacity	28
12.2 Performance guarantee figures for quality.....	28
12.3 Utility Consumption figures	29
13- Supervision	29

	Client No: 28C3-D-4IN-MRQ-033-0000-00-ME-0293	Rev		Date:2026-08-08
Class: FI	Document No: 12002-D-ME-MRQ-303-FLO-293	Client	Vendor	Page 4 of 31
	Library Code: 303-E03-0000-00-ME-MRQ-293-02	02	00	
	Document Title: Material Requisition for Flotation Area			

14-	Training.....	30
15-	Battery limits.....	30
16-	Exclusions	30
17-	Installation/commissioning and maintenance manual	30
18-	Appendix and attachment	31

	Client No: 28C3-D-4IN-MRQ-033-0000-00-ME-0293	Rev	Date: 2026-08-08
Class: FI	Document No: 12002-D-ME-MRQ-303-FLO-293	Client	Vendor
	Library Code: 303-E03-0000-00-ME-MRQ-293-02	02	00
	Document Title: Material Requisition for Flotation Area		Page 5 of 31

1. Introduction

1.1 General

Supplier (hereinafter referred to as “supplier”) is responsible for engineering, procurement and construction and on-site supervision activities also Process guarantee of this package.

The purpose of this document is to lay down conditions applicable to:

- **Non-Conformity:** No deviations or exceptions from this document shall be permitted, without explicit approval of Client. Intended deviations shall be separately listed by the seller, supported by reason thereof and submitted for company's consideration. If not, the requirements and conditions in this requisition shall be deemed accepted by Seller. in case of conflict between electrical items in mechanical data sheet and Data Sheet for LV and MV motor, priority is Data Sheet for LV and MV motor .
- **Precedence of Documents:** In case of conflict between documents listed in section 8 of the “LIST OF DOCUMENTS SUPPLIED & PRESENTED BY PURCHASER” and Codes and Standards listed in the relevant engineering Specifications, the order of priority are:
 - a) Project kick-off meeting (KOM)
 - b) Agreed Deviation / Alternative List
 - c) MOM
 - d) Clarification Sheets
 - e) This Material Requisition and respectively
 - f) Engineering Drawings and Specific Datasheets or technical Specifications
 - g) Project Specification
 - h) Code & Standards Referred to in the Specification

Any conflict between the above documents must be brought to PURCHASER’s attention and written PURCHASER’s approval shall be obtained before proceeding with designing, purchasing and manufacturing any parts of the whole package.

1.2 Definitions

Throughout the contract the following words and expressions shall have the meanings hereby assigned to them except where the context otherwise requires:

- “VENDOR” Responsible for Design, Fabrication, and Supply of Grinding
- “SUPPLIER &/OR CONTRACTOR” means the firm or company which this contract has been made with.

	Client No: 28C3-D-4IN-MRQ-033-0000-00-ME-0293	Rev		Date:2026-08-08
Class: FI	Document No: 12002-D-ME-MRQ-303-FLO-293	Client	Vendor	Page 6 of 31
	Library Code: 303-E03-0000-00-ME-MRQ-293-02	02	00	
	Document Title: Material Requisition for Flotation Area			

- “WORKS” means all obligations of the contractor described in the "scope of works" of the contractor.
- “APPROVE” means approve in writing letter confirmed by buyer.
- “SHALL” The word shall indicate a requirement.
- “SHOULD” The word should indicate a suggestion or recommendation.
- “MAY” The word may indicates alternatives are equally acceptable.

1.3 Project information

The Equipment of this Requisition is part of a completely FLOTATION circuit for the Phase III&IV Copper-Moly Concentrator Plant.

1.4 Contractual Languages

The contractual language shall be English. Vendor or Supplier documentation and technical data in engineering drawings etc. shall be in English. The language for electronic devices/protection relays/labels is English.

1.5 Nameplate & Labels

The nameplates must meet the following requirements:

1. They must be well positioned, clearly visible, and easy to identify.
2. Nameplates shall not be easily removable.
3. Nameplates for important components such as motors, gearboxes and others are to be positioned on the components.
4. They must indicate the type, serial number, year and place of manufacturing with TAG number.

1.6 Units

International standardization organization metric system of measurement shall be employed except for pressure, temperature, and pipe fittings which shall be in kg/cm² and °C and inches/NPT respectively.

2. Site condition

For detail description refer to site condition with Client number 28C3-D-4IN-DOC-090-0000-00-PR-0001 .

	Client No: 28C3-D-4IN-MRQ-033-0000-00-ME-0293	Rev		Date:2026-08-08
Class: FI	Document No: 12002-D-ME-MRQ-303-FLO-293	Client	Vendor	Page 7 of 31
	Library Code: 303-E03-0000-00-ME-MRQ-293-02	02	00	
	Document Title: Material Requisition for Flotation Area			

3. Purpose

The purpose of this Requisition is to define the Supplier's scope of work and supply for the items listed in Requisition Summary.

4. Applicable codes & standards

The equipment must conformance to the latest state of the art and knowledge of engineering and rules of techniques. Maximum availability of equipment and maximum replaceability and ease/rapidity of maintenance of all parts subject to wear are particularly important.

The Supplier is the sole responsible party for the correct application of the contractual documents and is to adhere to all specifications and codes, and standards set at 28C3-D-4IN-LST-090-0000-00-ME-0002 attached to this MR.

The Supplier is the sole responsible party for the correct application of the contractual documents and is to adhere to all specifications and codes as mentioned above. The following explanations are necessary for a better understanding:

1. All codes and standards referred to shall be the latest edition of such documents unless otherwise specified by the employer's representative. Where special piping and equipment, not covered by these standards, is required, the contractor shall submit to the employer's representative, for approval, a description of the selected material and design criteria adopted.
2. All equipment and assemblies shall comply with the European Machinery Directive 2006/42/EC2nd Edition, June 2010.
3. The Purchaser or his representative shall approve any other standard that Supplier proposes to use before applying it.

5. Requisition summary of project

In this project supplier will be responsible for all engineering, procurement and supervisory on installation to deliver with the approved division list of FLOTATION circuit with reference to PFD, P&ID and General Arrangement Drawing for Flotation area. The summary of main equipment listed as a follow:

	Client No: 28C3-D-4IN-MRQ-033-0000-00-ME-0293	Rev
Class: FI	Document No: 12002-D-ME-MRQ-303-FLO-293	Client
	Library Code: 303-E03-0000-00-ME-MRQ-293-02	Vendor
	Document Title: Material Requisition for Flotation Area	
		Date: 2026-08-08
		Page 8 of 31

ITEM	TAG/ PART NO.	QTY	DESCRIPTION	Remark
1	RC-3-33-3101-01~12 RC-4-33-3101-01~12	24	Rougher flotation tank-Body and support detail drawings	
2	AG-3-33-2402-01~12 AG-4-33-2402-01~12	24	Rougher flotation mechanism	
3	CL-3-33-3102-01~03 CL-4-33-3102-01~03	6	Cleaner flotation tank-Body and support detail drawings	
4	AG-3-33-2403-01~03 AG-4-33-2403-01~03	6	Cleaner flotation mechanism	
5	CL-3-33-3103-01~04 CL-4-33-3103-01~04	8	Cleaner-Scavenger flotation tank-Body and support detail drawings	
6	AG-3-33-2404-01~04 AG-4-33-2404-01~04	8	Cleaner-Scavenger flotation mechanism	
7	CL-3-33-3104-01~05 CL4-33-3104-01~05	10	Re-Cleaner flotation tank-Body and support detail drawings	
8	AG-3-33-2405-01~05 AG-4-33-2405-01~05	10	Re-Cleaner flotation mechanism	
9	CL-3-33-3105-01~03 CL-4-33-3105-01~03	6	Re-Re-Cleaner flotation tank-Body and support detail drawings	
10	AG-3-33-2406-01~03 AG-4-33-2406-01~03	6	Re-Re-Cleaner flotation mechanism	
11	BL-3-40-1810-01/02 BL-4-40-1810-01/02	4	Air blower for rougher cells	*
12	BL-3-40-1810-03/04 BL-4-40-1810-03/04	4	Air blower for cleaner cells	*

	Client No: 28C3-D-4IN-MRQ-033-0000-00-ME-0293	Rev
Class: FI	Document No: 12002-D-ME-MRQ-303-FLO-293	Client
	Library Code: 303-E03-0000-00-ME-MRQ-293-02	Vendor
	Document Title: Material Requisition for Flotation Area	
		Date: 2026-08-08
		Page 9 of 31

ITEM	TAG/ PART NO.	QTY	DESCRIPTION	Remark
13	BL-3-40-1810-05/06 BL-4-40-1810-05/06	4	Air blower for re-cleaner and re-re-cleaner cells	*
14	PZ-3-33-0920-01 PZ-4-33-0920-01	2	Particle size analyzer-regrind cyclone	
15	XZ-3-33-0920-02 XZ-4-33-0920-02	2	XRF analyzer	
16	BM-3-33-2140-01 BM-4-33-2140-01	2	Regrind ball mill	
17	CC-3-33-2710-01/02 CC-4-33-2710-01/02	4	Regrind ball mill cyclone cluster	
18	PU-3-33-1501-11/12 PU-4-33-1501-11/12	4	Regrind hydro cyclone feed pump	
19	SA-3-33-0901-01 SA-4-33-0901-01	2	Rougher cells tailing sampler	
20	SA-3-33-0901-02 SA-4-33-0901-02	2	Combined rougher flotation circuit tailings sampler	
21	SA-3-33-0901-03 SA-4-33-0901-03	2	Rougher concentrate to regrind sampler	
22	SA-3-33-0901-04 SA-4-33-0901-04	2	Rougher concentrate to cleaner bypass line sampler	
23	SA-3-33-0901-05 SA-4-33-0901-05	2	Regrind cyclone 01 overflow sampler	
24	SA-3-33-0901-06 SA-4-33-0901-06	2	Regrind cyclone 02 overflow sampler	

	Client No: 28C3-D-4IN-MRQ-033-0000-00-ME-0293	Rev	Date: 2026-08-08
Class: FI	Document No: 12002-D-ME-MRQ-303-FLO-293	Client	Vendor
	Library Code: 303-E03-0000-00-ME-MRQ-293-02	02	00
	Document Title: Material Requisition for Flotation Area		Page 10 of 31

ITEM	TAG/ PART NO.	QTY	DESCRIPTION	Remark
25	SA-3-33-0901-07 SA-4-33-0901-07	2	Cleaner-Scavenger tailing sampler	
26	SA-3-33-0901-08 SA-4-33-0901-08	2	Cleaner-Scavenger concentrate sampler	
27	SA-3-33-0901-09 SA-4-33-0901-09	2	Cleaner concentrate sampler	
28	SA-3-33-0901-10 SA-4-33-0901-10	2	Re-Cleaner tailing sampler	
29	SA-3-33-0901-11 SA-4-33-0901-11	2	Re-Cleaner concentrate sampler	
30	SA-3-33-0901-12 SA-4-33-0901-12	2	Re-Re-Cleaner concentrate to thickener sampler	
31	-	4	Froth analyzer (cam-scan) for 1st and 2nd rougher cells (each phase)	
32	-	2	Smart flotation control system (each phase)	

* The type, quantity, and capacity of the air blowers shall be determined per the air requirements of the flotation cells, in accordance with the latest revision of the blower data sheet for each respective area.

	Client No: 28C3-D-4IN-MRQ-033-0000-00-ME-0293	Rev	Date: 2026-08-08
Class: FI	Document No: 12002-D-ME-MRQ-303-FLO-293	Client	Vendor
	Library Code: 303-E03-0000-00-ME-MRQ-293-02	02	00
	Document Title: Material Requisition for Flotation Area		Page 11 of 31

6. Scope of work

The scope of work is engineering, procurement, manufacturing, packaging, supervision on installation, commissioning, training, and supplying the spare parts for aspects of the FLOTATION circuit package and also engineering endorsement. The system proposed shall be completed in a manner to perform all required points. The Supplier shall study all attached documents and furnish a complete working system in all respects. The supplier shall follow all project criteria and specifications as mentioned in Section 9. The Supplier is required to provide the following:

1. Test report preparation and Basic endorsement
2. Equipment detailed-design.
3. Detail design review and/or engineering supply of all equipment/materials as listed in clause 6. Engineering supply refers to the equipment only plus basic engineering for its integration within the Project; review with comments for layout assistance is included unless specified otherwise in this specification and in the tender documents.
4. Equipment supply based on approved vendor list.
5. Surface preparation and painting/coating as per project specification
6. Works inspections and tests (where applicable).
7. Packaging and protection of equipment for transit and 6 months storage purposes, in accordance with the Specification for Packaging and Shipping contained in the Enquiry/Purchase Order documents and according to the mode of transport defined in the Enquiry/Purchase
8. Delivery and insurance to the point as indicated on the Enquiry/Purchase Order documents, in accordance with purchaser delivery requirements.
9. Technical supervision of installation, commissioning, performance guarantee testing (PGT), and training services shall be provided by the Supplier in coordination with the Purchaser. The commissioning procedure shall be jointly developed and agreed upon by the Supplier and the Purchaser to define the scope, responsibilities, acceptance criteria, and expectations for commissioning activities. No equipment shall be deemed commissioned or accepted until the agreed commissioning documentation has been jointly completed and approved by both parties. The commissioning documentation shall be retained by the Purchaser. The Supplier shall identify and clarify all interface requirements and interface items in coordination with the mechanical, electrical, and instrumentation disciplines.
10. Complete engineering required for the equipment design, manufacturing, testing (where applicable) and supply of the equipment including all components. The engineering part shall also cover the inter-discipline engineering and the clarification of the interface items in coordination with the mechanical, electrical and instrument departments.
11. Provision of documents as specified in the Documentation Schedule

	Client No: 28C3-D-4IN-MRQ-033-0000-00-ME-0293	Rev		Date:2026-08-08
Class: FI	Document No: 12002-D-ME-MRQ-303-FLO-293	Client	Vendor	Page 12 of 31
	Library Code: 303-E03-0000-00-ME-MRQ-293-02	02	00	
	Document Title: Material Requisition for Flotation Area			

12. Special tools, such as bolt hammers for Regrind Ball mills if required, shall be included in the scope of supply.
13. A priced list of recommended spares, separated into the following:
 - Commissioning spares
 - Two years' operating spares
 - Recommended long term' spares (or capital spares), i.e., spares whose normal shelf life as a standby spare is expected to exceed two years.
 - The list will be subject to scrutiny and alteration by the purchaser to ensure the relevant provisions at optimum costs. Stock and re-order levels will be designated according to priority and shipping schedules. The Supplier shall demonstrate that the recommended list is appropriate based upon similar conditions experienced elsewhere.
14. A list of consumables and the expected consumption (if required). Should the purchaser fail to comment, or only partially comment, upon the Supplier document, this shall not be construed as an acceptance of the content of such document unless expressly provided otherwise.
15. All loading diagram for foundation and structural design.
16. General arrangement and 3D model of each equipment and whole grinding circuit.
17. Packing and Delivery according to Section 11
18. Guarantee as per Section 12
19. The vendor shall follow the "Instrument design criteria (28C3-D-4IN-DCR-090-0000-00-IN-0001)" and "Specification for Package Control System (28C3-D-4IN-SPC-090-0000-00-IN-0251)" for its package control and instrumentation job. If there are any deviation to these documents like an instrument which is not mentioned in "Instrument design criteria (28C3-D-4IN-DCR-090-0000-00-IN-0001)" Vendor shall send the relative specification for Client's written approval.

7. Scope of supply

The scope of supply includes any item and auxiliary, which is required to provide a correct and safe operation of the flotation package and all relevant mechanical/instrumentation accessories as attached to the procurement/ engineering and construction division list (if any) with the main titles. Supply of all main parts as mentioned above complete with all relevant accessories, including but not limited to the following:

1. Detailed-design and engineering
2. Supply of the fully fabricated
3. Material Supply regarding the following requirements:
 - All the materials used shall be new and conform to the respective specifications given on drawings and / or Section 4.

	Client No: 28C3-D-4IN-MRQ-033-0000-00-ME-0293	Rev		Date:2026-08-08
Class: FI	Document No: 12002-D-ME-MRQ-303-FLO-293	Client	Vendor	Page 13 of 31
	Library Code: 303-E03-0000-00-ME-MRQ-293-02	02	00	
	Document Title: Material Requisition for Flotation Area			

- Major materials shall have prior approval of the client or its representative. Any deviation is subject to the purchaser's approval.
- 4. Subcontracting of any part of the order shall be subject to the written approval of the Client or its Representative.
- 5. Construction and Manufacturing.
- 6. Electric motors/pumps
- 7. Interconnecting piping and wiring between equipment and accessories.
- 8. Onboard piping and cabling.
- 9. Guards for all rotating parts.
- 10. Top cover and dedusting hoods (if required).
- 11. Furnishing spare parts for commissioning with complete specifications and drawings:
- 12. Coordinating and resolving all engineering information related to the equipment
- 13. Flexible connections (Tarpaulin cover).
- 14. Drive unit/ pumps with first filling and all accessories.
- 15. All supporting elements saddles.
- 16. Wear resistant material and liners (any part of equipment which is in contact with material shall be Covered with wear resistant material; for example, cover of walls and side of material inlet.)
- 17. Supply of special tools for special parts such as bolt hammer (if required) and etc.
- 18. Supply of recommended spare parts for erection and commissioning.
- 19. Coordinating and resolving all engineering information related to the equipment.
- 20. Supervision on Erection and commissioning.
- 21. All mating flanges (if Any)
- 22. Supply of Local Control Box (L.C.B) for MV motors started by VFD is in the supplier Scope of Work. (refer to data sheet for LCB -Type 3A. (Doc. No:12002-D-EL-DSH-303-GNL-048)
- 23. Only the power supply cable (3PH+N+E or 1PH+N+E, based on the package unit's necessities) will be delivered to the nearby package unit's power cabinet. All interconnection cabling, wiring, and JB grounding within the skid shall be considered in the scope of the Vendor/Bidder.
- 24. Manufacturer/supplier must insert PURCHASER logo on equipment obviously. This logo should not be removable / clearable. This mandatory requirement is other than a nameplate.
- 25. Documentation according to Section 9
- 26. All lifting lugs/devices and earth lugs
- 27. Acoustic treatment to meet the specified noise levels (if applicable)
- 28. All Instruments and analyzers inside Vendor package (As per vendor-approved P&ID) and other required instruments for safe operation.
- 29. Isolation & drain valve for each equipment within B.L (Where applicable)
- 30. The PLC of the package (If any) shall follow the requirements of the "Specification for Package Control System" document as attached

	Client No: 28C3-D-4IN-MRQ-033-0000-00-ME-0293	Rev	Date: 2026-08-08
Class: FI	Document No: 12002-D-ME-MRQ-303-FLO-293	Client	Vendor
	Library Code: 303-E03-0000-00-ME-MRQ-293-02	02	00
	Document Title: Material Requisition for Flotation Area		Page 14 of 31

Note: All the sub-component (Mechanical, Electrical, Instrumentation and control, ...) of mentioned main equipment for proper and convenient work of system should be proposed by supplier

7.1. Electrical Important Notes (Rules and Laws):

1. In order to define the supplier's scope of work for the MV electrical equipment in the Flotation area, please refer to the attached overall electrical single-line diagram. The supplier is requested to review and endorse the client's overall S.L.D at this stage.

2. For LV/MV motors, following voltage & frequency variations is acceptable:

-LV motors ($\leq 250\text{kW}$): $400\text{V}/230\text{V AC} \pm 10\%$, $50\text{HZ} \pm 5\%$

-MV motors ($> 250\text{kW}$): $6.6\text{KV AC} \pm 10\%$, $50\text{HZ} \pm 5\%$

3. The supply of all MV VFD panels are in the supplier scope of work. All MV VFDs shall be considered with minimum 12 pulse configuration

The supplier shall provide the technical specifications and datasheets of (MV VFD/Panels for the client's review and consideration).

4. All MV VFD transformers (Multi-Pulse Phase Shift Transformers) Shall be considered dry-type and integrated within the VFD panels. The cooling system for the VFD panels shall be of the Air-Cooled type. In this regard, please include and provide the approximate dimensions and weight of the MV VFD panels in your technical proposal so that the proper arrangement and installation of these panels within "the electrical equipment layout of the flotation electrical substation" can be reviewed and evaluated.

5. The supplier shall determine and provide the heat dissipation data of the MV VFD panels in the technical proposal. The submitted data shall be suitable for HVAC and ventilation system design.

6. According to basic electrical requirements, all transformers $> 3500\text{ KVA}$ as well as motors above 1000 KW shall be protected by differential protection. Also, the current transformers used for this protection should be considered class X or 5P20.

7. According to the project requirements, it is necessary that both the inverter (VFD) and the soft starter utilize the PROFINET communication protocol.

8. According to the site condition, the installation altitude is $2,550\text{ masl}$. Please consider the effect of altitude when sizing the Variable Frequency Drives (VFDs) in terms of current, power, and the insulation voltage of the VFD panels.

9. As per IEC standard the insulation voltage for VFD panels will be derated to 12KV . (Power frequency withstand voltage 28KV and rated lightning voltage 75KV)

10. The following Attached documents Shall be completed and filled as much as possible:

	Client No: 28C3-D-4IN-MRQ-033-0000-00-ME-0293	Rev		Date:2026-08-08
Class: FI	Document No: 12002-D-ME-MRQ-303-FLO-293	Client	Vendor	Page 15 of 31
	Library Code: 303-E03-0000-00-ME-MRQ-293-02	02	00	
	Document Title: Material Requisition for Flotation Area			

- Typical LV/MV motor Data Sheets (filled only for MV and LV large motors separately)
- Electrical load / Motor List (All Main & Auxiliaries loads -in scope of technologist supply of work shall be filled)

- All Motors shall be sized at site condition. (Temperature & Altitude)
- Motor junction boxes shall be suitable for the size of cable which will be specified by Client in detail design stage. If the size of the announcement cables is larger than the routine size of the cable entry to the main motor's J.B, then middle JB shall be considered by supplier.
- If AC UPS power supply is required, please provide a separate list of AC UPS loads (230 V AC) for the local electrical and control panels included in your technical proposal. (Note: The AC UPS system is within the Client's scope of work). Also, if any voltage level other than 230/400 V is required, the supplier shall be responsible for designing and supplying a voltage converter.
- The MV VFD manufacturer is responsible for the evaluation, selection, design, sizing, and supply of all required filtering equipment on both the line side and motor side of the VFD. The filtering equipment shall be selected and designed to ensure reliable, stable, and compliant operation of the system in accordance with the specified operating conditions and technical requirements. in this regard, please provide your recommendation.

8. Bid requirements

This inquiry covers the complete flotation package for the Phase III and IV copper-moly concentration plant, including all accessories. The Supplier shall perform the Basic Engineering endorsement, which shall serve as the basis for all Process Guarantees.

9. Documentation

9.1 documents submitted by purchaser

Preliminary documents submitted by the purchaser shall be checked by the vendor/ Supplier the following documents submitted by the purchaser.

NO.	DESCRIPTION	DOCUMENT NO.	REV.	REMARKS
A	General Documents			
1.	Vendor list	-	-	

	Client No: 28C3-D-4IN-MRQ-033-0000-00-ME-0293	Rev	Date: 2026-08-08
Class: FI	Document No: 12002-D-ME-MRQ-303-FLO-293	Client	Vendor
	Library Code: 303-E03-0000-00-ME-MRQ-293-02	02	00
	Document Title: Material Requisition for Flotation Area		Page 16 of 31

NO.	DESCRIPTION	DOCUMENT NO.	REV.	REMARKS
2.	-	-		
3.	Spare parts & special tools	Appendix 28		
4.	Inspection and Tests	Appendix 26		
5.	Erection, Pre-Commissioning and Commissioning, Performance Tests	Appendix 15	-	
6.	Packing and marking	Appendix 20	-	
7.	Project Final Dossier preparation procedure	Appendix 22	-	
8.	Instrument Sub Vendor list	-	-	
9.	Electrical Sub Vendor list	-	-	
B	Technical Documents			
B-1	Mechanic			
10.	Mechanical Design Criteria	28C3-D-4IN-DCR-090-0000-00-ME-0001	02	
11.	Technical Specification for Regrind Ball mill	28C3-D-4IN-SPC-090-2140-00-ME-0017	03	
12.	Technical Specification for Flotation Cells	28C3-D-4IN-SPC-090-3100-00-ME-0018	02	
13.	Technical Specification for hydro cyclone	28C3-D-4IN-SPC-090-2710-00-ME-0012	02	
14.	Technical Specification for Agitator	28C3-D-4IN-SPC-090-2401-00-ME-0027	02	
15.	Technical Specification for welded steel tanks	28C3-D-4IN-SPC-090-3200-00-ME-0016	02	

	Client No: 28C3-D-4IN-MRQ-033-0000-00-ME-0293	Rev
Class: FI	Document No: 12002-D-ME-MRQ-303-FLO-293	Client
	Library Code: 303-E03-0000-00-ME-MRQ-293-02	02
	Document Title: Material Requisition for Flotation Area	00
		Date: 2026-08-08
		Page 17 of 31

NO.	DESCRIPTION	DOCUMENT NO.	REV.	REMARKS
16.	Data Sheet for Rougher Cells	28C3-D-4IN-DSH-033-3101-12-ME-0268	01	
17.	Data Sheet for Scavenger Cells	28C3-D-4IN-DSH-033-3103-04-ME-0271	01	
18.	Data Sheet for Cleaner Flotation Cells	28C3-D-4IN-DSH-033-3102-03-ME-0272	01	
19.	Data Sheet for Re-Cleaner Flotation Cells	28C3-D-4IN-DSH-033-3104-05-ME-0273	01	
20.	Data Sheet for Re-Re-cleaner Flotation Cells	28C3-D-4IN-DSH-033-3105-03-ME-0276	01	
21.	Data Sheet for Air Blower package -Air Area	28C3-D-4IN-DSH-040-1810-12-ME-0801	02	
22.	Data Sheet for XRF analyzer-Flotation Area	28C3-D-4IN-DSH-033-0920-01-ME-0285	01	
23.	Data Sheet for PSA analyzer-Flotation Area	28C3-D-4IN-DSH-033-0920-02-ME-0286	01	
24.	Data Sheet for regrind ball mill	28C3-D-4IN-DSH-033-2140-01-ME-0287	01	
25.	Data Sheet for regrind hydro cyclone	28C3-D-4IN-DSH-033-2701-02-ME-0288	01	
26.	Data Sheet for Re-Grind Hydro Cyclone Feed Slurry Pumps	28C3-D-4IN-DSH-033-1501-14-ME-0261	02	
27.	Data Sheet for samplers-Flotation Area	28C3-D-4IN-DSH-033-0901-22-ME-0292	01	
28.	General Arrangement for Flotation Area (33)	28C3-D-4IN-GEA-033-0000-00-ME-0218	04	

	Client No: 28C3-D-4IN-MRQ-033-0000-00-ME-0293	Rev	Date: 2026-08-08
Class: FI	Document No: 12002-D-ME-MRQ-303-FLO-293	Client	Vendor
	Library Code: 303-E03-0000-00-ME-MRQ-293-02	02	00
	Document Title: Material Requisition for Flotation Area		Page 18 of 31

NO.	DESCRIPTION	DOCUMENT NO.	REV.	REMARKS
B-2	Process			
29.	Site Condition	28C3-D-4IN-DOC-090-0000-00-PR-0001	02	
30.	Process Design Criteria	28C3-D-4IN-DCR-090-0000-00-PR-0003	02	
31.	P&ID for Flotation Area-33	28C3-D-4IN-PID-033-0000-00-PR-0025	05	
32.	PFD for CU Flotation Area33	28C3-D-4IN-PFD-033-0000-00-PR-0024	04	
B-3	Instrument			
33.	Instrument design criteria	28C3-D-4IN-DCR-090-0000-00-IN-0001	02	
34.	Specification for Instrument Junction Boxes	28C3-D-4IN-SPC-090-0000-00-IN-0004	02	
35.	VPIS for Blower Package I&C For Air Area (40)	28C3-D-4IN-LST-040-0000-00-IN-0235	01	
36..	VPIS for Hydro Cyclone Feed Pump Packages I&C For Flotation Area (33)	28C3-D-4IN-LST-033-0000-00-IN-0126	01	
37.	VPIS for Rougher Bank Packages I&C For Flotation Area (33)	28C3-D-4IN-LST-033-0000-00-IN-0120	01	
38.	VPIS for Cleaner Bank Packages I&C For Flotation Area (33)	28C3-D-4IN-LST-033-0000-00-IN-0122	01	
39.	VPIS for Cleaner Scavenger Packages I&C For Flotation Area (33)	28C3-D-4IN-LST-033-0000-00-IN-0121	01	
40.	VPIS for Re-Grind Mill Packages I&C For Flotation Area (33)	28C3-D-4IN-LST-033-0000-00-IN-0127	01	

	Client No: 28C3-D-4IN-MRQ-033-0000-00-ME-0293	Rev	Date: 2026-08-08
Class: FI	Document No: 12002-D-ME-MRQ-303-FLO-293	Client	Vendor
	Library Code: 303-E03-0000-00-ME-MRQ-293-02	02	00
	Document Title: Material Requisition for Flotation Area		Page 19 of 31

NO.	DESCRIPTION	DOCUMENT NO.	REV.	REMARKS
41.	VPIS for Re-Cleaner Bank Packages I&C For Flotation Area (33)	28C3-D-4IN-LST-033-0000-00-IN-0123	01	
42.	VPIS for Re-Re-Cleaner Bank Packages I&C For Flotation Area (33)	28C3-D-4IN-LST-033-0000-00-IN-0124	01	
43.	VPIS for field instruments	28C3-D-4IN-LST-090-0000-00-IN-0043	01	
44.	Specification For Packages Control System	28C3-D-4IN-SPC-090-0000-00-IN-0251	00	
B-4	Electrical			
45.	Technical Specification for LV & MV VFDs	28C3-D-4IN-SPC-090-0000-00-EL-0026	04	
46.	Data Sheet for LV and MV Motors	28C3-D-4IN-DSH-090-0220-00-EL-0038	04	
47.	Technical Specification for Package Unit	28C3-D-4IN-SPC-090-0000-00-EL-0014	03	
48.	Data Sheet for LV VFDS	28C3-D-4IN-DSH-090-0350-00-EL-0040	03	
49.	Data Sheet for Local Control Box (LCB)	28C3-D-4IN-DSH-090-0400-00-EL-0048	03	
50.	Overall Single line Diagram	28C3-D-4IN-SLD-090-0000-00-EL-0049	04	
51.	Electrical load / Motor List (Main & Auxiliaries loads)	-	-	
B-5	Piping			
52.	Piping design criteria	28C3-D-4IN-DCR-090-0000-00-PI-0001	02	

	Client No: 28C3-D-4IN-MRQ-033-0000-00-ME-0293	Rev	Date: 2026-08-08
Class: FI	Document No: 12002-D-ME-MRQ-303-FLO-293	Client	Vendor
	Library Code: 303-E03-0000-00-ME-MRQ-293-02	02	00
	Document Title: Material Requisition for Flotation Area		Page 20 of 31

NO.	DESCRIPTION	DOCUMENT NO.	REV.	REMARKS
53.	Piping Material Specification (PMS)	28C3-D-4IN-SPC-090-0000-00-PI-0018	03	
54.	Specification for Paint	28C3-D-4IN-SPC-090-0000-00-PI-0004	03	
B-6	HVAC			
55.	HVAC Design Criteria for All Buildings	28C3-D-4IN-DCR-090-0000-00-HV-0001	01	
B-7	Safety			
56.	Safety & Fire Fighting Design Criteria	28C3-D-4IN-DCR-090-0000-00-SF-0001	05	
B-8	Structure			
57.	Structure design criteria	28C3-D-4IN-DCR-090-0000-00-ST-0001	02	
B-9	Civil			
58.	Civil design criteria	28C3-D-4IN-DCR-090-0000-00-CV-0033	04	

* The Bidders must submit the list of spare parts, wear parts and consumables, which shall meet all requirements for commissioning and 2 years operation, attached to their proposal. No extra charge will be paid to the supplier due to any shortage in the proposed list.

9.2 documents to be submitted by supplier (before contract)

Supplier shall fulfill/complete the requested items in documents submitted by purchaser in Clause “9.1” such as data sheets and then bring the matter to purchaser approved. The following requirements and instructions shall be included by vendor/supplier in his proposal:

A) General

	Client No: 28C3-D-4IN-MRQ-033-0000-00-ME-0293	Rev		Date:2026-08-08
Class: FI	Document No: 12002-D-ME-MRQ-303-FLO-293	Client	Vendor	Page 21 of 31
	Library Code: 303-E03-0000-00-ME-MRQ-293-02	02	00	
	Document Title: Material Requisition for Flotation Area			

- Time Schedule for all activities including engineering, material procurement, shop fabrication, tests and inspections, painting, packing and delivery.
- Typical Document List for flotation Circuit (Will be Finalized during K.O.M)
- Prior approval of source of supply / manufacturer
- Statement of the supplier's related experience
- List of specialized staff for erection and commissioning
- Training Schedule
- Preliminary QCTM (Quality control and testing manual) for each equipment – Quality control plan & due Preliminary ITP shall be submitted before contract for approval

B) Technical

- Supplier's Questionnaire
- Deviation / Alternatives (If Any)
- Sub-Vendor/Sub-Supplier List
- Supplier 'S References List
- Division list / Responsibility Matrix
- Applicable codes and standards
- General arrangement and sectional drawings for Flotation area
- General assembly, Assembly, detail drawings and sectional drawings (Specially for package units)
- Overall Dimension/Outline Drawing
- Flotation package process flow diagram (PFD)
- Datasheet for all process/mechanical equipment
- Utility Consumption List
- Chemical consumption list
- Equipment List
- Process Description
- Commissioning Spare Parts list
- Two years Spare Parts List
- Recommended Capital Spare Part list
- Relevant catalogues
- Circuit diagram
- Preliminary P&ID
- Painting and packing specification
- Termination connection list (tie-in list)
- Electrical Motor and Consumer List

	Client No: 28C3-D-4IN-MRQ-033-0000-00-ME-0293	Rev		Date:2026-08-08
Class: FI	Document No: 12002-D-ME-MRQ-303-FLO-293	Client	Vendor	Page 22 of 31
	Library Code: 303-E03-0000-00-ME-MRQ-293-02	02	00	
	Document Title: Material Requisition for Flotation Area			

- Single line Diagram
- Data sheet for Motor (filled only for MV motors separately)
- Data sheet for VFD and dry transformer
- VFD Catalogue
- VFD and MV Panel Outline
- Operation and Interlocking Instruction

Notes:

1. Items requested only as "To Be Quoted Separately" are included in the scope of subject Requisition, but items requested also as "Option" may be ordered either under the same purchase order or another separate order.
2. The Bidders must submit the list of spare parts, wear parts, and consumables, which shall meet all requirements as per Appendix 28 attached to their proposal. In the attachment file minimum is requested, and the vendor can increase the amount based on experience.

9.3 Documents to be submitted by contractor (after contract)

contractor shall submit all of the required engineering documents according, but not limited to the following documents:

- Supplier Print Index and Schedule (VPIS)
- Process Description
- PFD & P&ID
- Control Philosophy
- Design Calculation book
- Data sheet for all equipment
- GA drawings and load data sheets
- Material certificate
- Supply list
- Suppliers Progress Report
- Welders' certificate
- W.P.S. (Welding Procedure Specifications)
- P.W.H.T. (Post Weld Heat Treatment)
- P.Q.R. (Welding Procedure Qualification Record)
- W.P.Q.T. (Welders Performance Qualification Testing)
- Q.C.T.M. (Quality Control and Testing Manual)
- Quality Assurance Plan (QAP) and Inspection Reports
- Test Certificates and Calibration Records

	Client No: 28C3-D-4IN-MRQ-033-0000-00-ME-0293	Rev		Date:2026-08-08
Class: FI	Document No: 12002-D-ME-MRQ-303-FLO-293	Client	Vendor	Page 23 of 31
	Library Code: 303-E03-0000-00-ME-MRQ-293-02	02	00	
	Document Title: Material Requisition for Flotation Area			

- Performance data sheet & capacity calculation
- Preparation and submitting of as built drawings
- Preparation and submitting of shop drawings
- Packing specification.
- Packing list.
- Utility requirement and consumption list (motor list, instrument list)
- General and sectional arrangement drawing
- Load drawing including of (static loads, dynamic loads, test loads, operation loads, Resonance frequency, etc.

- Assembly & Detail Drawing for Ball loading Sputnik (Sag/ball mill)
- Lubrication data sheet
- Storage Procedure
- Specification sheet of motors
- Drawing/specification for spare parts
- Operation Manual
- Maintenance Manual
- Erection / Installation Manual
- Detailed Assembly Drawing of Equipment included in scope of work
- Pedestal Outline Drawing of Equipment included in scope of work
- 3D model of equipment included in scope of work in Inventor Software.
- Motor List
- Motor Datasheet
- Single Line Diagram
- Panel Outline Layout
- Motor Outline (GA)
- Motor Performance Curves
- Power & Control Cable List
- Electrical Part List
- Panel Electrical Wiring Diagram
- Instrument List
- Instrument Datasheet
- Instrument & Junction Box Location Layout
- Control Panel Layout
- Termination & Wiring Diagram
- Instrument Cable List

	Client No: 28C3-D-4IN-MRQ-033-0000-00-ME-0293	Rev		Date:2026-08-08
Class: FI	Document No: 12002-D-ME-MRQ-303-FLO-293	Client	Vendor	Page 24 of 31
	Library Code: 303-E03-0000-00-ME-MRQ-293-02	02	00	
	Document Title: Material Requisition for Flotation Area			

- BOM for Control System
- Control System Configuration (Network Architecture)
- I/O List & I/O Mapping
- Logic Diagram
- Cause & Effect
- Software Source (Archived Version)
- FAT Procedure
- SAT Procedure
- Certificate of Origin
- Calibration Certificate for Instruments

Notes:

1. Supplier shall get Purchase's approval for the documents prepared by the suppliers before manufacturing process starts.
2. The documents shall be submitted in native and PDF formats.
3. The Supplier is responsible for correctness of shop drawings and purchasers will only review these drawings.

10-Inspection and test

SUPPLIER shall consider any other necessary tests and inspections for covering the Guarantee and Warranty and prepare a quality/inspection and test control plan (QCP) which will accompany the Tender Proposal. It shall include as a minimum, inspection and test activities, procedure references, acceptance criteria, documentation, and certification to be provided.

SUPPLIER shall provide a quality/ inspection and test control plan that sets out specific quality practices and activities relevant to his entire Scope of Supply and Works. It shall include as a minimum, inspection and test activities, procedure references, acceptance criteria, documentation, and certification to be provided.

SUPPLIER shall provide quality records appropriate to all inspection and test activities. The records and certificates shall be collected by the SUPPLIER and shall be stamped as approved by the Third-Party Inspector.

In addition, the following tests shall be performed by the SUPPLIER, but not limited to the following Tests:

- Material inspection & certificates (PT, UT, RT...)
- Visual inspection
- Dimensional inspection

	Client No: 28C3-D-4IN-MRQ-033-0000-00-ME-0293	Rev		Date:2026-08-08
Class: FI	Document No: 12002-D-ME-MRQ-303-FLO-293	Client	Vendor	Page 25 of 31
	Library Code: 303-E03-0000-00-ME-MRQ-293-02	02	00	
	Document Title: Material Requisition for Flotation Area			

- Welding inspection (NDT) including:
- Visual inspection (VT)
- Magnetic particle test (MT)
- Liquid penetrates test (PT)
- Ultrasonic test (UT)
- Radiographic test (RT)
- Factory Acceptance Test (FAT) Mechanical running test
- No-load running test
- Vibration measurement test
- Temperature rise test
- Noise level test
- Hydrostatic test
- Internal inspection as per requirement
- Stress relief report and related test (if required)
- Pre-assemble inspection & test performed at the shop
- Rust prevention and painting inspection
- Marking inspection for packing
- Final inspection prior to packing
- Packing inspection
- Cleanliness inspections
- Clearance checks
- Preparation for shipment
- Site Acceptance Test (SAT)
- Performance test
- Control and instrumentation

Notes:

1. purchaser's representatives shall have an unrestricted access to the manufacturing shop of the supplier to witness all manufacturing procedures, tests, and inspections performed on the parts and assemblies.
2. The procedures and criteria of tests and inspections applied to any part shall be proposed in the Q.C.T.M, which manufacturer shall take purchaser's approval.
3. Supplier shall provide a valid inspection and safety certificate issued by an accredited inspection body as a Third-Party Inspection (TPI). the TPI shall be approved by client prior to acting.

	Client No: 28C3-D-4IN-MRQ-033-0000-00-ME-0293	Rev		Date:2026-08-08
Class: FI	Document No: 12002-D-ME-MRQ-303-FLO-293	Client	Vendor	Page 26 of 31
	Library Code: 303-E03-0000-00-ME-MRQ-293-02	02	00	
	Document Title: Material Requisition for Flotation Area			

Inspections and tests shall be described in detail in the SUPPLIER's internal inspection and test plan, which shall satisfy all codes and authority requirements. The ITP shall be submitted for approval and be discussed during the pre-inspection meeting. The ITP shall be subjected to PURCHASER's approval prior to fabrication.

The weights of major components to be lifted during maintenance on-site must be listed.

11-Packing and Marking

Packing and marking shall be as per Appendix 20 of the CLIENT's contract "Specification for Packing, Marking and Forwarding".

12-Guarantee

All the activities considered and mentioned in the scope of supply of the EPS Contractor shall be guaranteed for the period of 18 months after PAC or 30 months after the Last major delivery, each one being earlier. This guarantee shall fulfill and cover all the process, mechanical, electrification, Instrumentation, control, and other aspects, related to the scope of work. They shall conform to the technical requirements mentioned in this document.

General condition following as:

1. The equipment shall be subject to PERFORMANCE GUARANTEE TEST as stipulated here below during which it shall demonstrate its capability for sustained steady and continued operation while meeting the specific PERFORMANCE GUARANTEE conditions for the capacity, quality, and consumption figures as specified hereafter.
2. Supplier is obligated to complete the PERFORMANCE GUARANTEES TEST of the plant over continues period of 14 days with 88% availability. In the case of 4 hours or more interruption in above mentioned period the performance guarantee test should be carried out from the beginning. This shall be no later than one MONTH after COMMISSIONING of the PLANT.
3. Supplier shall prepare the detail procedures for PERFORMANCE GUARANTEE TEST and shall submit them to Purchaser for review, comment and approval at least six (6) months prior to commencement of the PERFORMANCE GUARANTEE TEST.
4. Supplier shall be provided all provisions for measurements of various parameters required for such test during the development of engineering.
5. Supplier shall warrant the instrument tolerance while client shall agree on the type of instruments and shall jointly their calibration, as to be performed by Supplier, for measurement of the parameters such as unit, capacities, and consumption.

	Client No: 28C3-D-4IN-MRQ-033-0000-00-ME-0293	Rev		Date:2026-08-08
Class: FI	Document No: 12002-D-ME-MRQ-303-FLO-293	Client	Vendor	Page 27 of 31
	Library Code: 303-E03-0000-00-ME-MRQ-293-02	02	00	
	Document Title: Material Requisition for Flotation Area			

6. Purchaser's personnel under the direction and supervision of Supplier supervisory personnel shall carry out the PERFORMANCE GUARANTEE TEST.
7. Samples for analytical will be taken and divided, using methods which represent practice.
8. Purchaser and Supplier shall each receive one part of the samples and the third part shall be retained by Purchaser to be used for umpire purposes by independent testing laboratory in case of disputes.
9. Analysis and quality test of the sample will be done promptly throughout the PERFORMANCE TEST according to general proven and established methods jointly agreed upon.
10. Test measurements will be taken jointly by both PARTIES and in the event of any dispute relating only to the correctness, sufficiency and/or adequacy of the test and/or in the manner in which the test is conducted.
11. Both PARTIES shall confirm and sign every day, up to the fulfillment of the PERFORMANCE TEST, the complete operating records, of the previous day including analysis sheets.
12. Supplier shall have the equipment operated in accordance with its requirement for the PERFORMANCE GUARANTEE TEST and Purchaser's personnel shall work under the direct technical instruction of Supplier.
13. If the period of PERFORMANCE GUARANTEE TEST as specified above, are interrupted due to the reasons for which Supplier is not responsible, the circuit will be started again as soon as possible and when reaching the normal operating conditions, the test shall continue immediately thereafter. In these circumstances the duration of the test will be extended by the duration of such interruption and the TEST will then be deemed to have been performed continuously.
14. If such interruptions are attributable to Supplier's own PERFORMANCE, the PERFORMANCE Test either will be repeated or the test shall continue immediately thereafter and the test period will be extended by duration of interruption. The interruption period in these circumstances is limited to 4 hours.
15. The Supplier is allowed to make adjustment in the during the period of PERFORMANCE GUARANTEE TEST in order to achieve the PERFORMANCE GUARANTEE figures, Supplier shall inform the owner before making any such adjustments.
16. If PERFORMANCE GUARANTEE figures cannot be achieved by a PERFORMANCE TEST as described above, within the period of 2 months after the commissioning, and such inability is due to Supplier, then Purchaser (or his agent) is entitled to claim from Supplier the liquidated damages.
17. Up on the successful completion of the PERFORMANCE GUARANTEE TEST in accordance with the requirement of the CONTRACT, Supplier shall prepare a

	Client No: 28C3-D-4IN-MRQ-033-0000-00-ME-0293	Rev
Class: FI	Document No: 12002-D-ME-MRQ-303-FLO-293	Client
	Library Code: 303-E03-0000-00-ME-MRQ-293-02	02
	Document Title: Material Requisition for Flotation Area	00
		Date: 2026-08-08
		Page 28 of 31

PERFORMANCE GUARANTEE TEST report, which will be signed by Supplier and submitted to Purchaser (or his agent) for APPROVAL.

18. All the activities which fall into the duty of the Supplier, mentioned in the Scope of Supply, shall be guaranteed for the period of 18 months after PAC, to conform to the technical requirements described in this document.
19. The laboratory test report is attached herein for the supplier's reference and utilization. Should the supplier deem it necessary to perform any additional or supplementary tests, such activities shall be permissible only upon prior written notification and coordination with the purchaser.

12.1 Performance guarantee figures for capacity

The vendor is required to deliver its grinding circuit to the purchaser based on the following values in terms of capacity:

- 2700 tons/hour dry basis of fresh feed (design) to plant (each phase)
- 2344 tons/hour dry basis of fresh feed (nominal) to plant (each phase)

Range	100-99%	99-98%	98-97%	97-96%
Liquidated damage (%)	0	5	8	10

- Product Quality
- Copper recovery of the PLANT is 89%.
- Copper grade of produced copper-Moly concentrate is 22.5%.
- Molybdenum grade in produced copper-Moly concentrate is 0.7%.

12.2 Performance guarantee figures for quality

The vendor is required to deliver its flotation circuit to the purchaser based on the following values in terms of quality:

- Liquidated Damage for Grade & Recovery

Range	100-99%	99-98%	98-97%	97-96%
Liquidated damage (%)	0	5	8	10

	Client No: 28C3-D-4IN-MRQ-033-0000-00-ME-0293	Rev
Class: FI	Document No: 12002-D-ME-MRQ-303-FLO-293	Client
	Library Code: 303-E03-0000-00-ME-MRQ-293-02	02
	Document Title: Material Requisition for Flotation Area	00
		Date: 2026-08-08
		Page 29 of 31

Note: In the case of non-achievement of any of the above mentioned minimum guaranteed figures (i.e., 96%) for quality, EPS contractor shall within the time frame determined by the client (or their agent) make good the faulty units.

Details of performance tests, performance guarantee figures, consumption and SCHEDULE OF LIQUIDATED DAMAGE FOR PROCESS PERFORMANCE guarantee will be added to contract content.

12.3 Utility Consumption figures

The vendor is required to declare electricity consumption in MWh and water consumption in m³/h for whole package at its technical proposal.

More than over specified level at above (water & power)	0-5%	5-10%	10-20%	>20%
Liquidated damage (% of contract price)	3	4	5	Not accepted

If above mentioned figure will be more than 20%, PGT does not accept and EPS contractor shall within the time frame determined by the client (or their agent) make good the faulty units.

Note: Details of performance tests, performance guarantee figures, consumption and schedule of liquidated damage for process performance guarantee will be added to contract content.

13-Supervision

Supplier shall quote Supervisory services during Installation, Pre-Commissioning, Commissioning & Operation Procedures Supervisory services during commissioning to shall meet to performance guarantee test of the plant (Process, I&C and electrical) with the following consideration:

- Reference List with detailed scope of work
- key personnel resume
- The Time Schedule for should be submitted in the Technical Proposal.

	Client No: 28C3-D-4IN-MRQ-033-0000-00-ME-0293	Rev		Date:2026-08-08
Class: FI	Document No: 12002-D-ME-MRQ-303-FLO-293	Client	Vendor	Page 30 of 31
	Library Code: 303-E03-0000-00-ME-MRQ-293-02	02	00	
	Document Title: Material Requisition for Flotation Area			

14-Training

Supplier shall quote training on-site for an adequate number of technicians of End-User maintenance and operation personnel (if required). Supplier shall quote the required manpower foreseen for each single-phase indicating rates and expected days required (on site plus travelling) (if required). The Supplier shall quote additional training if considered necessary explaining the reason.

15-Battery limits

For a clearer understanding of the battery limits of this inquiry refer to scope of supply.

16-Exclusions

The following are not included in the supply:

- Fire Proofing Protection (optionally to be quoted separately)
- All Electrical Power and control Cables between the Motor Control Centre (MCC) in Substation to the Main Electrical Equipment will be provided by the Purchaser.
- Civil work
- Installation

17-Installation/commissioning and maintenance manual

Relevant manuals shall be supplied for the complete packages, including main equipment, and auxiliaries. The content of manuals shall be as per applicable standards but shall include as a minimum the followings:

- Installation instructions including
- Manufacturers recommended operating and maintenance instructions for all equipment including electrical sequence of operation for all major electrical equipment, where applicable
- Disassembly and reassembly instructions
- Logic diagram and sequences for start-up, shut down, emergency shut down
- Mechanical, electrical & instrument data sheets
- As-built, outline, arrangement, and detail drawings
- List of recommended spare parts for two years operation
- Instructions for storage and preventive maintenance during storage
- Running/ performance test at site & troubleshooting

	Client No: 28C3-D-4IN-MRQ-033-0000-00-ME-0293	Rev		Date:2026-08-08
Class: FI	Document No: 12002-D-ME-MRQ-303-FLO-293	Client	Vendor	Page 31 of 31
	Library Code: 303-E03-0000-00-ME-MRQ-293-02	02	00	
	Document Title: Material Requisition for Flotation Area			

- Shop & field training of operators
- All other related documents specified in section 9 of this requisition

18-Appendix and attachment

The files required for the technical proposal are placed in the attachments folder according to the table in Section 9-1.