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Material Requisition for De-watering Area (34)

02	07/28/2026	Issued for Information				
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Rev.	Date	Description	Prepared	Checked	Approved	Authorized

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Tabulation of Revised Page

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

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1. INTRODUCTION

1.1 General



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

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

1.2 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 Supplier.

1.3 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

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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.

1.4 Definitions



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

- **“VENDOR /SUPPLIER/ CONTRACTOR”** is a firm or company which is responsible for one or all activities related to Design, Fabrication, Supply subjected to specified equipment or goods mentioned in this MR and make a contract with Contractors.
- **“SUB-SUPPLIER”** means a supplier who provides goods or services to contractor
- **“WORKS”** means all obligations of the Supplier described in the "scope of works" of the Supplier.
- **“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.

1.5 Project information

The Equipment of this Requisition is part of a complete Dewatering Area of Copper-Moly Concentrator Plants.

1.6 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.

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1.7 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, and reduction ratio.

1.8 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 CONDITIONS

For detail description refer to site condition with document number, 12002-D-PR-DOC-303-GNL-001.

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.

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4. APPLICABLE CODES AND STANDARDS

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

The Supplier is the sole responsible party for the correct application of the contractual documents and is adhered to all specifications and codes and standards 12002-D-ME-Spec-303-GNL-002 attached to this MR. 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/EC 2nd Edition June 2010.
3. The Purchaser or his representative shall approve any other standard that Supplier proposes to use prior to applying them.

5. REQUISITION SUMMARY OF PROJECT

In this project Supplier will be responsible for all engineering, procurement and manufacturing activity to deliver with the approved division list of Dewatering area with reference to PFD, P&ID and overall Plot plan for Dewatering area. The summary of requisition listed as below:

5.1 Summary of Equipment List

The summary of main equipment listed as follow:

ITEM	TAG/ PART NO.	QTY/ Set	DESCRIPTION	Remark
1	3-33-3301-01 4-33-3301-01	2	Cu-Mo Thickener- Body and support Detail drawings	
2	3-33-3301-01 4-33-3301-01	2	Cu-Mo Thickener Mechanism	

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3	3-34-3301-01	1	Cu Thickener- Body and support Detail drawings	
4	3-34-3301-01	1	Cu Thickener Mechanism	
5	3-34-2220-01~06	6	Cu Concentrate Filter Press	
6	3-34-3211-01~02	2	Filter Press Feed Tank- Body and support Detail drawings	
7	3-34-2401-01~02	2	Filter Press Feed Tank Agitator	
8	-	8	Compressed air package (NOTE 1)	
9	Deleted	-	-	
10	Deleted	-	-	
11	3-33-1506-01~02 4-33-1506-01~02	4	Cu-Mo Thickener Underflow Bredel Pump	
12	3-34-1506-01~02	2	Cu Thickener Underflow Bredel Pump	
13	3-34-1501-01~06	6	Filter Press Feed Pump	
14	3-33-2701-01 4-33-2701-01	2	Cu-Mo Thickener Vibrating Trash Screen	
15	3-34-2702-01	1	Cu Thickener Static Trash Screen	
16	3-34-2002-01 3-34-2001-01 3-34-2709-01 3-34-2410-01 3-34-2415-01 3-34-3232-04 3-34-2401-02 3-34-3211-05 3-34-1506-03 and 04	1	Flocculant Package for Cu Thickener (Hopper, Screw Feeder, Dissolver, Ejector, Static Mixer, Conditioning Tank, Agitator, Storage Tank, Dosing Pump)	
17	3-34-1501-07~10	4	Filtrate Slurry Pump	
18	3-34-1502-01~04	4	Filter Press Wash Water Pump	

NOTE 1: The Supplier shall provide process & instrument air with all required accessories and auxiliaries including but not limited to following: Air compressors, Water traps, Dryers, Filters, Calculation of the number and capacity of compressors according to different uses in filter presses, instruments and plant air should be finalized by the vendor.

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6. SCOPE OF WORK

The scope of work is engineering, procurement, manufacturing, packaging and shipment, supervision on installation, commissioning, training, and supplying the spare parts for aspects of the Dewatering area packages 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 is required to provide the following:

- a. Test report review and Basic endorsement
- b. Equipment design.
- c. Detail design review and/or engineering supply of all equipment/materials as listed in table 5.1. 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.
- d. Equipment supply based on approved division list.
- e. Painting apply should be done in accordance with Project Painting Specification which is attached.
- f. Works inspections and tests (where applicable).
- g. 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 Order documents.
- h. Delivery and insurance to the point as indicated on the Enquiry/Purchase Order documents or clause 2 in accordance with purchaser delivery requirements.
- i. Technical supervision of the installation, commissioning, PGT and training services shall be carried out by the Supplier in conjunction with Purchaser. The commissioning procedure shall be jointly agreed to provide finite limitations and expectations to the commissioning document. No equipment shall be deemed commissioned or accepted without joint completion of the agreed

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commissioning document. The commissioning documentation will be retained in a file by the Purchaser.

- j. 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.
- k. The supply of documents as per the Documentation Schedule and MDL which is approved by client in advanced in according to time schedule.
- l. Special tools, if required, shall be included in the scope of supply.
- m. 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.
- n. 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.
- o. All loading diagram for foundation and structural design.
- p. General arrangement and 3D model of each equipment and whole Dewatering circuit.
- q. Basic engineering for the belt conveyers under the filter presses for handling the discharge cake.

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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 Dewatering package and all relevant mechanical/Electrical/instrumentation accessories as attached to the procurement/ engineering and manufacturing division list (if any) with the main titles.

Supply of all main equipment as mentioned above, completed with all relevant accessories, including but not limited to the following:

1- Design and engineering

2- Supply of the fully fabricated

3- Material Supply regarding the following requirements:

I. All the materials used shall be new and conform to the respective specifications given on drawings and / or Section 4.

II. Major materials shall have prior approval of the Purchaser 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 Purchaser or its Representative.

5- Construction and Manufacturing.

6- Interconnecting piping and wiring between equipment and accessories.

7- Bonding and Earthling (to be connected to the central system if required).

8- Onboard or mounted 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:

- 10(ten) percent for each set of fasteners (bolts, nuts, washers).
- Any necessary item for commissioning according to client order (if any).

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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 (if required).

15- All supporting elements saddles.

16- Wear resistant material (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 (if any).

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, commissioning and PGT.

21- All mating flanges (if required)

22- Supply of Local Operation Box (L.O.B.) as specified below:

a- Start/Stop push buttons on L.O.B.

b- Field Permission Indication lamp on L.O.P

c- Running indication lamp on L.O.B.

d- Local Operating Panel Equipment Power On

e- Termination for Local/Remote mode selection from control room

23- Manufacturer/supplier must insert PURCHASER logo on equipment obviously. This logo should not be removable / clearable. This mandatory requirement is other than a nameplate.

24- Documentation according to Section 9

25- Application of surface protection according to painting specification

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26-Packing and Delivery according to Section 12

27-Guarantee as per Section 13

28- All lifting lugs/devices and earth lugs

29-Acoustic treatment to meet the specified noise levels (if applicable)

30-All Instruments and analysers inside Equipment package B.L. (As a minimum as shown on P&ID) and other required instruments for safe operation

31-Isolation & drain valve for each equipment within B.L (Where applicable)

32-Earthing & lightning protection system & all accessories (inside the package)

Notes:

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.

8. BID REQUIREMENTS

This inquiry covers complete Dewatering package for copper-moly concentration plant with all accessories. It shall be considered that Basic engineering endorsement shall be done by Supplier and would be the basis of Process guarantees

9. DOCUMENTATION

9.1 Documents submitted by Purchaser



Preliminary documents submitted by the purchaser shall be checked and finalized by the Vendor/ Supplier the following documents submitted by the purchaser.

NO.	DESCRIPTION	DOCUMENT NO.	REV.	REMARKS
A	General Documents			
1	Overall plot plan	12002-D-ME-PLP-303-STP-048	06	
2	Appendix 14-Vendor list	-	-	
3	Appendix 15- Erection, Pre-Commissioning and Commissioning, Performance Tests	-	-	

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NO.	DESCRIPTION	DOCUMENT NO.	REV.	REMARKS
4	Appendix 20-Specification for Parking, Marking And Forwarding	-	-	
5	Appendix 22- Project Final Dossier preparation procedure	-	-	
6	Appendix 26-Inspection and Tests	-	-	
7	Appendix 28 - Recommended spare parts & special tools	-	-	
B	Technical Documents			
B-1	Mechanic			
8	Mechanical Design Criteria	12002-D-ME-SPC-303-GNL -001	02	
9	Technical Specification for Thickener	12002-D-ME-SPC-303-GNL-020	02	
10	Technical Specification for Filter Press	12002-D-ME-SPC-303-GNL-026	02	
11	Technical Specification for Pressure Vessels	12002-D-ME-SPC-303-GNL-024	02	
12	Technical Specification for Agitator	12002-D-ME-SPC-303-GNL-027	02	
13	Technical Specification for welded steel tanks	12002-D-ME-SPC-303-GNL-016	02	
14	Specification for Slurry Pumps	12005.B.ME.SPC.303.GNL.013	01	
15	Technical Specification for Vibrating Feeder & Screen	12002-D-ME-SPC-303-GNL-010	02	
16	Data Sheet for Cu-Mo Thickener	12002-D-ME-DSH-303-FLO-291	01	
17	Data Sheet for Cu-Concentrate Thickener	12002-D-ME-DSH-303-DWT-399	01	
18	Data Sheet for Filter press -Dewatering Area	12002-D-ME-DSH-303-DWT-401	01	
19	Data sheet For Conditioning tank Agitator-Dewatering Area	12002-D-ME-DSH-303-DWT-400	01	
20	Data Sheet for Air Compressor package-Dewatering Area	12002-D-ME-DSH-303-DWT-1068	00	
21	Data Sheet for bredel Pumps-Dewatering Area	12002-D-ME-DSH-303-DWT-404	01	
22	Data Sheet for Slurry Horizontal Pumps-Dewatering Area	12002-D-ME-DSH-303-DWT-405	02	
23	Data Sheet for CU-Mo thickener underflow Bredell Pumps	12002-D-ME-DSH-303-FLO-1044	01	
24	Data Sheet for Trash Screen-Dewatering Area	12002-D-ME-DSH-303-DWT-398	01	
25	Data Sheet for Trash Screen-Dewatering Area	12002-D-ME-DSH-303-DWT-398	01	
26	Data Sheet for Flocculant Package-Dewatering Area	12002-D-ME-DSH-303-DWT-403	00	

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NO.	DESCRIPTION	DOCUMENT NO.	REV.	REMARKS
27	Deleted	-	-	
28	Deleted	-	-	
29	General Arrangement for De-Watering Area (34)	12002-D-ME-DWG-303-DWT-382	04	
B-2	Process			
30	Site Condition	12002-D-PR-DOC-303-GNL-001	02	
31	Process Design Criteria	12002-D-PR-DCA-303-GNL-003	02	
32	P&ID for CU Concentrate Dewatering Area 34	12002-D-PR-PID-303-DWT-027	06	
33	PFD for CU Concentrate Dewatering Area34	12002-D-PR-PFD-303-DWT-026	05	
B-3	Instrument			
34	Instrument design criteria	12002-D-IN-DCA-303-GNL-001	02	
35	Specification for Instrument Junction Boxes	12002-D-IN-SPC-303-GNL-004	02	
36	VPIS for Control System	12002-D-IN-LIT-303-GNL-044	01	
37	VPIS for Field Instruments	12002-D-IN-LIT-303-GNL-043	01	
38	VPIS for Filter Press I&C	12002-D-IN-LIT-303-DWT-150	01	
39	VPIS for Filter Press Compressor Package I&C	12002-D-IN-LIT-303-AIR-236	01	
B-4	Electrical			
40	Electrical design criteria	12002-D-EL-DCA-303-GNL-001	02	
41	Technical Specification for MV & LV Motors	12002-D-EL-SPC-303-GNL-016	02	
42	Technical Specification for Package Units	12002-D-EL-SPC-303-GNL-014	03	
B-5	Piping			
43	Piping design criteria	12002-D-PI-DCA-303-GNL-001	02	
44	Piping Material Specification	12002-D-PI-SPC-303-GNL-018	03	
B-6	HVAC			
45	HVAC Design Criteria for All Buildings	12002-D-HV-DCA-303-GNL-001	01	
B-7	Structure			
46	Structure design criteria	12002-D-ST-DCA-303-GNL-001	02	

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NO.	DESCRIPTION	DOCUMENT NO.	REV.	REMARKS
B-8	Civil			
47	Civil design criteria	12002-D-CV-DCA-303-GNL-033	04	
B-9	Safety			
48	Safety & Fire Fighting Design Criteria	12002-D-SF-DCA-303-GNL-001	05	

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

- Time Schedule for all activities including engineering, material procurement, shop fabrication, tests and inspections, painting, packing and delivery.
- Typical Document List for Dewatering 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)

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- Sub-Vendor/Sub-Supplier List
- Supplier 'S References List
- Division list (If Any)
- Applicable codes and standards
- General arrangement and sectional drawings (preliminary)
- Overall Dimension/Outline Drawing
- Dewatering package process flow diagram (PFD)
- Datasheet for all process/mechanical equipment
- Utility Consumption List
- Chemical consumption list
- Equipment List
- Process Description
- Preliminarily Equipment Sizing
- 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 (for specific settings)
- Termination connection list (tie-in list)

Note:

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If the bidder has any joint ventures, the following documents shall be provided.

- The agreement between joint and companies
- Resume and profile of joint ventures
- The split of supply and work

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. (If Any).

9.3 Documents to be submitted by Supplier - After Contract

Supplier shall submit the following documents as minimum during the contract and this List Will be Finalized during K.O.M.

- Supplier Print Index and Schedule (VPIS)
- Calculation book
- Data sheet for all equipment
- PFD
- P&ID
- Control Philosophy
- Instrument list
- Instrument Data sheet
- Motor Data sheet
- Wiring diagram
- General Arrangement
- Material certificate
- Supply list

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- Supplier 's Progress Report
- Q.C.T.M. (Quality Control and Testing Manual) (1) (2)
- Preparation and submitting of modification information for as built drawings (3)
- Packing Procedure.
- Packing list.
- Utility requirement and consumption list (motor list, instrument list) (2)
- General and sectional arrangement drawing (3)
- Load drawing including of (static loads, dynamic loads, test loads, operation loads,
- Resonance frequency, etc.) (3)
- Lubrication data sheet
- Storage Procedure
- Specification sheet of motors (2)
- Drawing/specification for spare parts (2) (3)
- Operation Manual (2)
- Maintenance Manual (2)
- Erection / Installation Manual (2)
- 3D model and Isometric drawing for pipe lines in NAVIS and PDMS

Notes:

1. Supplier shall take Purchase's approval for the documents prepared by the suppliers before manufacturing process starts.

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2. The documents shall be supplied in ONE soft copy (CD) as native and PDF files formats.
3. The Supplier is responsible for correctness of shop drawings and Purchaser 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 to submit the Client's inspector whenever necessary.

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
- Welding inspection (NDT) including:
 - Visual inspection (VT)
 - Magnetic particle test (MT)
 - Liquid penetrate test (PT)
 - Ultrasonic test (UT)

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- Radiographic test (RT)

- Factory Acceptance Test (FAT) Mechanical running test

I. No-load running test

II. Vibration measurement test

III. Temperature rise test

IV. 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.

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

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submitted for approval and be discussed during the pre-inspection meeting. The ITP shall be subjected to PURCHASER's approval prior to fabrication.

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 Parking, Marking and Forwarding".

12. GUARANTEE

All the activities considered and mentioned in the scope of supply of the Supplier shall be guaranteed for the period of 18 months after Performance Acceptance Certificate or 30 months after the Last major delivery, whichever happens 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

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.

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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 envisage adequate 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.

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.

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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 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.

GUARANTEED PERFORMANCE FIGURES AND LIQUIDATED DAMAGE

Guarantee Figures and Liquidated Damages in Respect of Contract Price are as follows:

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- Capacity

- 47.02 dmth Solid Fresh Feed (Design) and 40.75 dmth Solid Fresh Feed (Nominal) to each Cu-Mo Thickener.
- 93.12 dmth Solid Fresh Feed (Design) and 80.70 dmth Solid Fresh Feed (Nominal) to Cu Thickener.
- 23.28 dmth Solid Fresh Feed (Design) and 20.18 dmth Solid Fresh Feed (Nominal) to each Filter Press

- Product Quality

- Solid percent of each Cu-Mo thickener underflow is 50%.
- Solid percent of Cu thickener underflow is 65%.
- TSS of Overflow Solids Concentration in all thickeners must be less than 300 ppm.
- Moisture of Cu concentrate product by Filter Presses is 8%.

- LIQUIDATED DAMAGE FOR CAPACITY and THICKENER UNDERFLOW SOLID PERCENT

Range	100-99 %	99-98 %	98-97 %	97-96 %
Liquidated Damage (% of Contract price)	0	3	5	7

- LIQUIDATED DAMAGE FOR FILTER PRESS MOISTURE CAKE

Concentrate Filter cake moisture %.

10 % moisture content

LIQUIDATED DAMAGE FOR QUALITY

Range	100-101 %	101-102 %	102-103 %	103-104%
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Liquidated Damage (% of Contract price)	0	3	5	7
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• **NON-ACHIEVEMENT OF MINIMUM PROCESS GUARANTEE**

In the case of non-achievement of any of the above mentioned minimum guaranteed figures (i.e., 96%) for capacity and (i.e., 104%) for qualities, Supplier shall within the time frame determined by the client (or their AGENT) make good the faulty UNIT (S).

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 meet the performance guarantee test of circuit (Process, I&C and electrical) with the following consideration.

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

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.

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15. BATTERY LIMITS

For clearer understanding of the battery limits, all works, equipment, materials, and services within the defined enquiry based on process flow diagram for CU Concentrate Dewatering Area with document No. 34'12002-D-PR-PFD-303-DWT-026' shall be the responsibility of the Supplier, unless otherwise stated herein.

16. EXCLUSIONS

The following are not included in the supplier's scope:

- Supply (including Material procurement and construction) of the followings:
 - a. Thickeners body and support
 - b. Filter presses supporting structure
 - c. Transfer chutes under filter presses
 - d. Cake Collecting conveyors
 - e. Compressed air tanks (receivers)
 - f. Filter Press Feed Tank (condition tank)
 - g. Filter press washing water tanks
 - h. Squeezing water tanks
 - i. Filtrate water tanks
- Fire Proofing Protection
- 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.
- All piping works between the packages/equipment
- 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

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

18. APPENDIX AND ATTACHMENT

Supplementary documents attached as listed in Section 9-1, and these documents are sent to the vendor along with the MR.