



COMPANY:	Trinity Metals obo Rutongo Mines	DATE:	9 December 2025
ATTENTION:	Ronald Toledo	QUOTE NO:	QN25000252 Rev 1
E-MAIL:	ronald.toledo@trinity-metals.com	CC:	Mphob@multotec.com
CLIENT ENQ NO:	Dewatering Cyclone		

Dear Ronald,

We thank you for your enquiry e-mailed to us on the 02nd of April 2025 and take pleasure in submitting our revised budget quotation for your consideration.

As requested by the client; mass balance is revised, pressure gauge and commissioning vortex finders are added to the scope.

This proposal is for Tin dewatering application. A standalone cyclone with a diameter of 75mm was sized and selected based on the following given process feed conditions:

Solids SG: 3.95 t/m³

Cyclone Feed Solids rate: 1.38 tph

Cyclone Feed Slurry: 4.45m³/h

Cyclone Feed Solids Concentration: 25.2% w/w

Feed PSD

The cyclone is expected to operate at 70kPa achieving an estimated D50c cut point of 11µm. A mass split of 99.86% and 82.84% solids(w/w) is achieved to the cyclone underflow based on the given feed PSD.

Description	Qty.	Unit Price ZAR	Total Price ZAR
FC75-5-0/A-D/8 (7-HS) c/w Standard 180° PVC OE	1	R 8,449	R 8,449
Commissioning Spigots – one size smaller (7-HS/6-A)	1	R 1,136	R 1,136
Commissioning Spigots – one size larger (7-HS/10-A)	1	R 1,101	R 1,101
Commissioning Vortex Finders – 7-V/B-APE	1	R 2,059	R 2,059
Commissioning Vortex Finders – 7-V/C-APE	1	R 2,024	R 2,024
40PGA.MSRG Pressure Gauge Adaptor	1	R 1,314	R 1,314
0-400 KPA, Slotted Pressure Gauge	1	R 6,816	R 6,816
Transport (Airfreight)	LOT	R 9,354	R 9,354
Grand Total (CPT, Rutongo Mines Rwanda, Packed & Excl VAT)			R 32,253

The GA drawings included are for reference only and should not be used for design detail purposes.
Lead time



The production lead time is 12 working weeks, and an additional 1 working week will be required for the submission of GA drawings and QCP's to the client for approval, this is calculated from receipt of official order and finalization of all commercial and technical details. The total lead time will be 13 working weeks plus additional time taken for the customer to approve the drawings and QCP's, this is subject to the Company's Drawing Office and factory workload.

Other Multotec equipment that can be supplied into the processing flowsheets and other commodities include:

- Spirals
- Pipe Launderers
- Samplers
- Screen panels and media
- Spray nozzles
- Wear solutions
- Mill and Scrubber liners
- Conveyor belt accessories
- Sensor Technology
- DMS cyclones and densifiers
- Pumps
- Flotation rotors and stators
- Hi-frequency screens
- Centrifuges -chemical industry

PLEASE NOTE:

- Please note the quote is for budget purposes only.
- Multotec terms and Conditions apply for this proposal. Please request a copy of the T & C's should you require them.

We trust that the above meets with your approval and should you require any additional information, please do not hesitate to contact us.

Kind Regards

MULTOTEC PROCESS EQUIPMENT (PTY) LTD

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Multotec Process Equipment (Pty) Ltd



Client: Trinity Metals
Application: Dewatering
Feed Condition: **NOMINAL**
Equipment Number: TBA
Cyclone Type: FC75-5-0/A-D/8 c/w standard 180 PVC OE
Distributor Type: Stand alone
Spigot Series : 7-HS **Standard**
Installation: Vertical
Cyclones, on line: 1
Cyclones, standby: 0
Distributor Outlets, blanked off: n/a
Estimated D50C Cut Size: 11 micron
Viscosity: 1 centipoise
Operating Pressure: 70 kPa
Solids SG: 3.95 **α Water :** **6.96%**

MASS BALANCE:	Feed	Underflow	Overflow
Solids SG:	3.95	3.95	3.95
Solids t/hr:	1.38	1.38	0.00
Solids m3/hr:	0.35	0.35	0.00
Percent Split	100.00%	99.86%	0.14%

Liquid SG:	1.00	1.00	1.00
Liquid t/hr:	4.10	0.29	3.82
Liquid m3/hr:	4.10	0.29	3.82
Percent Split	100.00%	6.96%	93.04%

Pulp RD:	1.23	2.62	1.00
Pulp t/hr:	5.48	1.66	3.82
Pulp m3/hr:	4.45	0.63	3.82
Percent Split	100.00%	14.25%	85.75%

% Solids w/w:	25.18	82.84	0.05
% Solids v/v:	7.85	55.00	0.01

V27.5 TEST Beta

Prepared by Mpho: 04 April 2025

**Dewatering
Particle Size Distribution:**

Size Microns	Cumulative % Passing			Uncorrected Tromp Curve
	Feed	Underflow	Overflow	
1000	100.0	100.0	100.0	100.0%
1000	100.0	100.0	100.0	100.0%
1000	100.0	100.0	100.0	100.0%
1000	100.0	100.0	100.0	100.0%
1000	99.9	99.9	100.0	100.0%
500	84.9	84.9	100.0	100.0%
300	56.0	55.9	100.0	100.0%
250	33.3	33.2	100.0	100.0%
125	12.9	12.8	100.0	100.0%
100	7.0	6.9	100.0	100.0%
75	4.1	4.0	100.0	100.0%
53	2.3	2.2	100.0	100.0%
38	1.4	1.3	100.0	100.0%
25	0.6	0.5	99.8	100.0%
10	0.1	0.0	61.4	89.1%

Overflow P98: 24 micron

V27.5 TEST Beta

Prepared by Mpho: 04 April 2025



