

Electrical & Material Handling Engineering REG. NO. CK/1986/006898/23 VAT NUMBER 4200113712 SABS ISO 9001 No. LS 1758

Company:	DRA		
Attention:	Graham	Date:	01/11/2023
Email:	graham.audouin@draglobal.com	Our Ref:	SP DRA-01- KM TZN-02/ 2023
From:	SADIA PATAO	Your Ref:	RFQ
Subject:	Kabanga		

Note of Confidentiality

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We thank you for your enquiry and have a pleasure in submitting this proposal.

Should you require further clarification please contact the undersigned.

Thes are prices for hardware only I will send you a quotation for FAT ,installation &commission next week by the 07/11/2023.

Delivery: FOB Benoni

Yours Faithfully

Sadia Patao

Members: A. Steenkamp, A Lavis, R.J.F. Pinto

CT SYSTEMS CC 43/45 Lake Avenue

Benoni

E-Mail: cts@ctsystems.co.za

Managing Member: V. M. Patao

Tel: +11 845 32 58/9 Fax: +11 422 3376

Website: www.ctsystems.co.za



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TECHNICAL SPECIFICATIONS

Executive Summary

As per conversation we have included the worse case scenario regarding the Belt Protection equipment only .

I will next week send prices for the FAT drawings, installation, and commissioning. We have very little information therefore we assumed that the conveyors will be accessible on both sides.

This offer is for the supply and delivery of all the conveyor protection systems for the project as identified on your emailed documents referring to the conveyor lengths.

This offer has been compiled with certain assumptions and exclusions, and we have documented most of these below.

Please do not hesitate to contact the undersigned for clarity on any portion of our quote.

Delivery will be FOB Benoni.

- Training: Our standard training rates are R15800.00 per day, for a classroom
 of no more than 10 attendees, this excludes any traveling time, travelling
 costs and Sustenance Allowance We will require 3 weeks in advance for
 training so that we can prepare training documentation.
- We have made no provisions for Installation or commissioning.

1.1.1 Engineering Services

These prices do not oncluded any engineering services at all.

1.1.2 Preliminary and General

Not Quoted for, will quote if site establishment is a requirement. This will be provided in the new quote next week.

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1.2 Installation

We have **excluded** an estimate for the installation of the equipment supplied. We will issue a quote next week for this.

2. Exclusions

We have **not included** for the following:

2.1 Scaffolding (This is to be erected and supplied by others)

- 2.2 Any other goods/services not indicated in the price schedule/bill of quantities.
- 2.3 Supply and installation of any Medium and High Voltage Switchgear, Cabling and Distribution.
- 2.4 Supply and installation of any Motors, Drive Units, Smart Relays, Elec Relays etc. .
- 2.5 Supply and installation of any Control Room Equipment other than that indicated in the price schedule/bill of quantities.
- 2.6 Vendor specific PLC/SCADA software development licenses.
- 2.7 Fibre-Optic Cabling, Splicing and Termination related to the Control Network Industrial Ethernet Backbone.
- 2.8 Any UPS or standby power supply.
- 2.9 Any type of wire marker requirement other than that specified.
- 2.10 Any earthing.
- 2.11 Any additional work will require an amendment order.
- 2.12 Trenching machine with operator (Excluded from scope due site specifications)
- 2.13 Cabling from Substation to Head End Control Unit and from Trip Circuit to Safety Circuit has been excluded as we did not have indication on distances between the Hecu and sub-station.
- 2.14 Cable markers has been excluded from our proposal.
- 2.15 Cable trays and cable bridges has been excluded from our proposal as installation did not fall part of our scope and we had no reference drawings to utilize to estimate the route of the cable trays and distances.
- 2.16 Site Specific motor vehicles or for site approved personnel carriers such as site approved busses.
- 2.17 Site establishment containers, offices, and storage containers.

3. Assumptions

We assumed that everything will be intelligent. And access on both sides of the conveyor.

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Page **3** of **4**



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If possible, please clarify what you prefer on the Apron feeder? We have some end users that want it fully intelligent and some that will only use a conveyor trip switch taken to a Rio Panel.

Should you have more information available regarding the conveyors we will welcome it if you send us this information.

Quality Statement

CT SYSTEMS CC is committed to quality. Its Quality Management System is designed to meet SABS ISO 9001:2015 (E) "Code of Practice".

6. Trade Secret

This proposal contains confidential information and trade secrets of CT SYSTEMS CC's. The information contained herein shall be used solely for the evaluation of the proposal by the Purchasing Team and its consultants and shall not be disclosed to third parties or indiscriminately distributed without CT SYSTEMS CC's prior written permission.

We strive to give you the best service.

Your Faithfully

Sadia Patao

External sales Client Liaison and contracts Manager

<u>072 914 2707</u>

Members: A. Steenkamp, A Lavis, R.J.F. Pinto

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Managing Member: V. M. Patao

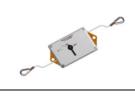
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Page 4 of 4



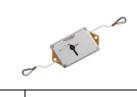
Apron d	Apron dribble feeder Acces both sides CONVEYOR LENGTH (m)			
Item	Description	QTY	Per unit	Total
1	HEAD END CONTROL UNIT - (HECU) TYPE: CTS MK8-2). c/w data logger board, Profinet comms.	1	R 74 529.00	R74 529.00
2	1.5m Free Standing Support Mounting Structure for HECU	1	R 5 177.00	R5 177.00
3	Belt PROTECTION UNIT TYPE CTS 9480 SRBL STROKING ROLLER BELT MISALIGNMENT ON AT HEAD AND ON AT TAIL(set left and right)	0	R 4 025.00	R0.00
4	BELT PROTECTION UNIT TYPE CTS748 BS underspeed /slip detector SS	1	R 23 850.00	R23 850.00
5	BELT PROTECTION UNIT TYPE CTS748BSS speed sequence unit SS	1	R 23 717.00	R23 717.00
6	BELT PROTECTION UNIT TYPE 748MRD Mechanical Rip Detector (Deadpan) SS	0	R 27 350.00	R0.00
7	BIOCKED CHUTE DETECTOR TYPE CTS 600 BCD Complete with primary device (CTS 448PD)	0	R 15 732.20	R0.00
8	BELT PROTECTION UNIT TYPE CTS 448 PD with takeup/trolley limit switches fwd /ffwd &reverse /reseverse	4	R 14 302.90	R57 211.60
9	CTS348 Beltguards Head and Tail C/W 2 industrial Plugs SS	2	R 13 382.70	R26 765.40
10	CTS 1000 AVA Audio visual Alram (Stand Alone) SS	1	R 15 575.00	R15 575.00
11	CTS 348PSW/DC C/W Lightning protection Conveyor trip switch space 50m apart SS	4	R 12 090.00	R48 360.00
12	INTELLIGENT END UNIT TYPE: CTS IEU 48VDC - SS	1	R 4 890.00	R4 890.00
13	PULL CABLE. TYPE: CTS PC. To interlink between the HECU, to all of the equipment mounted on the conveyor, the pull cable acts also as the pulling mechanism per metre	26	R 71.00	R1 846.00
14	TERMINATION KITS FOR PULL CABLE. TYPE: CTS TK SS	8	R 395.00	R3 160.00
15	CTS CGR - Conveyor Guide Roller (Corner Wheels for Belt Guards) SS	4	R 1 100.00	R4 400.00
16	PULL CABLE CARRIERS. TYPE: CTS PCCSS	8	R 85.00	R680.00
17	Export Crating	3	R 3 800.00	
	SUB TOTAL			R290 161.00
	VAT			R43 524.15
	TOTAL			R333 685.15



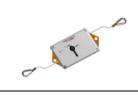
Sacrifcia	Sacrifcial Conveyor Access both sides CONVEYOR LENGTH (m)			56
Item	Description	QTY	Per unit	Total
1	HEAD END CONTROL UNIT - (HECU) TYPE: CTS MK8-2). c/w data logger board, Profinet comms.	1	R 74 529.00	R74 529.00
2	1.5m Free Standing Support Mounting Structure for HECU	1	R 5 177.00	R5 177.00
3	Belt PROTECTION UNIT TYPE CTS 9480 SRBL STROKING ROLLER BELT MISALIGNMENT ON AT HEAD AND ON AT TAIL(set left and right) SS	2	R 4 025.00	R8 050.00
4	BELT PROTECTION UNIT TYPE CTS748 BS underspeed /slip detector SS	1	R 23 850.00	R23 850.00
5	BELT PROTECTION UNIT TYPE CTS748BSS speed sequence unit SS	1	R 23 717.00	R23 717.00
6	BELT PROTECTION UNIT TYPE 748MRD Mechanical Rip Detector (Deadpan) SS	1	R 27 350.00	R27 350.00
7	BIOCKED CHUTE DETECTOR TYPE CTS 600 BCD Complete with primary device (CTS 448PD)	1	R 15 732.20	R15 732.20
8	BELT PROTECTION UNIT TYPE CTS 448 PD with takeup/trolley limit switches fwd /ffwd &reverse /reseverse	4	R 14 302.90	R57 211.60
9	CTS348 Beltguards Head and Tail C/W 2 industrial Plugs SS	4	R 13 382.70	R53 530.80
10	CTS 1000 AVA Audio visual Alram (Stand Alone) SS	1	R 15 575.00	R15 575.00
11	CTS 348PSW/DC C/W Lightning protection Conveyor trip switch space 50m apart SS	4	R 12 090.00	R48 360.00
12	INTELLIGENT END UNIT TYPE: CTS IEU 48VDC - SS	1	R 4 890.00	R4 890.00
13	PULL CABLE. TYPE: CTS PC. To interlink between the HECU, to all of the equipment mounted on the conveyor, the pull cable acts also as the pulling mechanism per metre	150	R 71.00	R10 650.00
14	TERMINATION KITS FOR PULL CABLE. TYPE: CTS TK SS	8	R 395.00	R3 160.00
15	CTS CGR - Conveyor Guide Roller (Corner Wheels for Belt Guards) SS	4	R 1 100.00	R4 400.00
16	PULL CABLE CARRIERS. TYPE: CTS PCC SS	38	R 85.00	R3 230.00
17	Export Crating	3	R 3 800.00	R11 400.00
	SUB TOTAL			R390 812.60
	VAT			R58 621.89
	TOTAL			R449 434.49



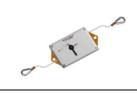
Mill feed	Mill feed Conveyor Access Both sides CONVEYOR LENGTH (m)			
Item	Desctiption	QTY	Per unit	Total
1	HEAD END CONTROL UNIT - (HECU) TYPE: CTS MK8-2). c/w data logger board, Profinet comms.	1	R 74 529.00	R74 529.00
2	1.5m Free Standing Support Mounting Structure for HECU	1	R 5 177.00	R5 177.00
3	Belt PROTECTION UNIT TYPE CTS 9480 SRBL STROKING ROLLER BELT MISALIGNMENT ON AT HEAD AND ON AT TAIL(set left and right)	2	R 4 025.00	R8 050.00
4	BELT PROTECTION UNIT TYPE CTS748 BS underspeed /slip detector SS	1	R 23 850.00	R23 850.00
5	BELT PROTECTION UNIT TYPE CTS748BSS speed sequence unit SS	1	R 23 717.00	R23 717.00
6	BELT PROTECTION UNIT TYPE 748MRD Mechanical Rip Detector (Deadpan) SS	1	R 27 350.00	R27 350.00
7	BIOCKED CHUTE DETECTOR TYPE CTS 600 BCD Complete with primary device (CTS 448PD)	1	R 15 732.20	R15 732.20
8	BELT PROTECTION UNIT TYPE CTS 448 PD with takeup/trolley limit switches fwd /ffwd &reverse /reseverse	4	R 14 302.90	R57 211.60
9	CTS348 Beltguards Head and Tail C/W 2 industrial Plugs SS	4	R 13 382.70	R53 530.80
10	CTS 1000 AVA Audio visual Alram (Stand Alone) SS	1	R 15 575.00	R15 575.00
11	CTS 348PSW/DC C/W Lightning protection Conveyor trip switch space 50m apart SS	6	R 12 090.00	R72 540.00
12	INTELLIGENT END UNIT TYPE: CTS IEU 48VDC - SS	1	R 4 890.00	R4 890.00
13	PULL CABLE. TYPE: CTS PC. To interlink between the HECU, to all of the equipment mounted on the conveyor, the pull cable acts also as	250	R 71.00	R17 750.00
13	the pulling mechanism per metre	230	K /1.00	K17 730.00
14	TERMINATION KITS FOR PULL CABLE. TYPE: CTS TK SS	6	R 395.00	R2 370.00
15	CTS CGR - Conveyor Guide Roller (Corner Wheels for Belt Guards) SS	4	R 1 100.00	R4 400.00
16	PULL CABLE CARRIERS. TYPE: CTS PCC SS	60	R 85.00	R5 100.00
17	Export Crating	4	R 3 800.00	R15 200.00
	SUB TOTAL			R426 972.60
	VAT			R64 045.89
	TOTAL			



Sizing Sci	Sizing Screen Feed Conveyor CONVEYOR LENGTH (m)			132
Item	Desctiption	QTY	Per unit	Total
1	HEAD END CONTROL UNIT - (HECU) TYPE: CTS MK8-2). c/w data logger board, Profinet comms.	1	R 74 529.00	R74 529.00
2	1.5m Free Standing Support Mounting Structure for HECU	1	R 5 177.00	R5 177.00
3	Belt PROTECTION UNIT TYPE CTS 9480 SRBL STROKING ROLLER BELT MISALIGNMENT ON AT HEAD AND ON AT TAIL(set left and right)	2	R 4 025.00	R8 050.00
4	BELT PROTECTION UNIT TYPE CTS748 BS underspeed /slip detector SS	1	R 23 850.00	R23 850.00
5	BELT PROTECTION UNIT TYPE CTS748BSS speed sequence unit SS	1	R 23 717.00	R23 717.00
6	BELT PROTECTION UNIT TYPE 748MRD Mechanical Rip Detector (Deadpan) SS	1	R 27 350.00	R27 350.00
7	BIOCKED CHUTE DETECTOR TYPE CTS 600 BCD Complete with primary device (CTS 448PD)	1	R 15 732.20	R15 732.20
8	BELT PROTECTION UNIT TYPE CTS 448 PD with takeup/trolley limit switches fwd /ffwd &reverse /reseverse	4	R 14 302.90	R57 211.60
9	CTS348 Beltguards Head and Tail C/W 2 industrial Plugs SS	4	R 13 382.70	R53 530.80
10	CTS 1000 AVA Audio visual Alram (Stand Alone) SS	1	R 15 575.00	R15 575.00
11	CTS 348PSW/DC C/W Lightning protection Conveyor trip switch space 50m apart SS	8	R 12 090.00	R96 720.00
12	INTELLIGENT END UNIT TYPE: CTS IEU 48VDC - SS	1	R 4 890.00	R4 890.00
13	PULL CABLE. TYPE: CTS PC. To interlink between the HECU, to all of the equipment mounted on the conveyor, the pull cable acts also as the	300	R 71.00	R21 300.00
14	TERMINATION KITS FOR PULL CABLE. TYPE: CTS TK SS	8	R 395.00	R3 160.00
15	CTS CGR - Conveyor Guide Roller (Corner Wheels for Belt Guards) SS	4	R 1 100.00	R4 400.00
16	PULL CABLE CARRIERS. TYPE: CTS PCCSS	88	R 85.00	R7 480.00
17	Export Crating	4	R 3 800.00	R15 200.00
	SUB TOTAL			R457 872.60
	VAT			R68 680.89
	TOTAL			R526 553.49



Secondary Crusher Feed Conveyor			LENGTH (m)	169m
Item	Desctiption	QTY	Per unit	Total
1	HEAD END CONTROL UNIT - (HECU) TYPE: CTS MK8-2). c/w data logger board, Profinet comms.	1	R 74 529.00	R74 529.00
2	1.5m Free Standing Support Mounting Structure for HECU	1	R 5 177.00	R5 177.00
3	Belt PROTECTION UNIT TYPE CTS 9480 SRBL STROKING ROLLER BELT MISALIGNMENT ON AT HEAD AND ON AT TAIL(set left and right) SS	2	R 4 025.00	R8 050.00
4	BELT PROTECTION UNIT TYPE CTS748 BS underspeed /slip detector SS	1	R 23 850.00	R23 850.00
5	BELT PROTECTION UNIT TYPE CTS748BSS speed sequence unit SS	1	R 23 717.00	R23 717.00
6	BELT PROTECTION UNIT TYPE 748MRD Mechanical Rip Detector (Deadpan) SS	1	R 27 350.00	R27 350.00
7	BIOCKED CHUTE DETECTOR TYPE CTS 600 BCD Complete with primary device (CTS 448PD)	1	R 15 732.20	R15 732.20
8	BELT PROTECTION UNIT TYPE CTS 448 PD with takeup/trolley limit switches fwd /ffwd &reverse /reseverse	4	R 14 302.90	R57 211.60
9	CTS348 Beltguards Head and Tail C/W 2 industrial Plugs SS	4	R 13 382.70	R53 530.80
10	CTS 1000 AVA Audio visual Alram (Stand Alone) SS	1	R 15 575.00	R15 575.00
11	CTS 348PSW/DC C/W Lightning protection Conveyor trip switch space 50m apart SS	10	R 12 090.00	R120 900.00
12	INTELLIGENT END UNIT TYPE: CTS IEU 48VDC - SS	1	R 4 890.00	R4 890.00
13	PULL CABLE. TYPE: CTS PC. To interlink between the HECU, to all of the equipment mounted on the conveyor, the pull cable acts also as the pulling mechanism per metre	420	R 71.00	R29 820.00
14	TERMINATION KITS FOR PULL CABLE. TYPE: CTS TK SS	10	R 395.00	R3 950.00
15	CTS CGR - Conveyor Guide Roller (Corner Wheels for Belt Guards) SS	4	R 1 100.00	R4 400.00
16	PULL CABLE CARRIERS. TYPE: CTS PCC SS	112	R 85.00	R9 520.00
17	Export Crating	4	R 3 800.00	R15 200.00
	SUB TOTAL			R493 402.60
	VAT			R74 010.39
	TOTAL			



Summary CONVEYOR LENGTH (m)				
Summar			` '	
Item	Desctiption	QTY	Per unit	Total
1	HEAD END CONTROL UNIT - (HECU) TYPE: CTS MK8-2). c/w data logger board, Profinet comms.	5	R 74 529.00	R372 645.00
2	1.5m Free Standing Support Mounting Structure for HECU	5	R 5 177.00	R25 885.00
3	Belt PROTECTION UNIT TYPE CTS 9480 SRBL STROKING ROLLER BELT MISALIGNMENT ON AT HEAD AND ON AT TAIL(set left and right) SS	8	R 4 025.00	R32 200.00
4	BELT PROTECTION UNIT TYPE CTS748 BS underspeed /slip detector SS	5	R 23 850.00	R119 250.00
5	BELT PROTECTION UNIT TYPE CTS748BSS speed sequence unit SS	5	R 23 717.00	R118 585.00
6	BELT PROTECTION UNIT TYPE 748MRD Mechanical Rip Detector (Deadpan) SS	4	R 27 350.00	R109 400.00
7	BIOCKED CHUTE DETECTOR TYPE CTS 600 BCD Complete with primary device (CTS 448PD)	4	R 15 732.20	R62 928.80
8	BELT PROTECTION UNIT TYPE CTS 448 PD with takeup/trolley limit switches fwd /ffwd &reverse /reseverse	20	R 14 302.90	R286 058.00
9	CTS348 Beltguards Head and Tail C/W 2 industrial Plugs SS	18	R 13 382.70	R240 888.60
10	CTS 1000 AVA Audio visual Alram (Stand Alone) SS	5	R 15 575.00	R77 875.00
11	CTS 348PSW/DC C/W Lightning protection Conveyor trip switch space 50m apart SS	32	R 12 090.00	R386 880.00
12	INTELLIGENT END UNIT TYPE: CTS IEU 48VDC - SS	5	R 4 890.00	R24 450.00
13	PULL CABLE. TYPE: CTS PC. To interlink between the HECU, to all of the equipment mounted on the conveyor, the pull cable acts also as the pulling mechanism per metre	1146	R 71.00	R81 366.00
14	TERMINATION KITS FOR PULL CABLE. TYPE: CTS TK SS	40	R 395.00	R15 800.00
15	CTS CGR - Conveyor Guide Roller (Corner Wheels for Belt Guards) SS	20	R 1 100.00	R22 000.00
16	PULL CABLE CARRIERS. TYPE: CTS PCC SS	306	R 85.00	R26 010.00
17	Export Crating	18	R 3 800.00	R68 400.00
	SUB TOTAL	_		R2 070 621.40
	VAT			R310 593.21
	TOTAL			R2 381 214.61