

				R	ates Table -	2012	
Unit Rate Code	Costing Items	(Currency		Init Rates	Unit	Notes
1	Nominal cost and time related items						
	Not Applicable		Rands	R	-	na	
	Sum Rate	:	Rands Rands	R R	-	sum unit	
	Steel and related structures						
	Cladding / Sheeting	:	Rands	R	21.50	m²	
2.2	Structural steelwork Super structures	:	Rands	R	1 280.00	t	
2.3.1	Light plant structures	:	Rands	R	107.00	m²	up to 100kg of steel per square meter
2.3.2	Medium plant structures	1	Rands	R	590.00	m²	up to 450kg of steel per square meter
2.3.3 2.3.4	Medium / Heavy plant structures Heavy plant structures	:	Rands Rands	R R	1 280.00 1 900.00	m² m²	up to 1000kg of steel per square meter up to 1500kg of steel per square meter
2.3.4	Steel tanks with rubber lining		Ranus	N	1 900.00		
2.4.1	0-5m	:	Rands	R	10 600.00	no	diameter
2.4.2	5-10m 10-15m	:	Rands	R R	26 650.00 37 300.00	no	diameter diameter
2.4.3	15-20m		Rands Rands	R	53 300.00	no	diameter diameter
2.4.5	20-30m	1	Rands	R	69 300.00	no	diameter
2.5	Single steel tanks	- :	Rands	R	5 300.00	no	small enclosed steel tanks
2.6 2.6.1	Carports Carports with IBR covering	:	Rands	R	90.00	m²	excludes paving
2.6.2	Carports with Shade net covering	:	Rands	R	43.00	m²	excludes paving
	Buildings and related structures						
3.1 3.1.1	Brick buildings Single storey building		Rands	R	295.00	m²	includes soft strip, excludes disposal of waste
3.1.1	Double storey building	:	Rands	R	500.00	m²	includes soft strip, excludes disposal of waste
3.2	Substations, pump stations and strong rooms						
3.2.1 3.2.2	Single storey building Double storey or double volume building	:	Rands Rands	R R	480.00 690.00	m² m²	includes soft strip, excludes disposal of waste includes soft strip, excludes disposal of waste
	Prefabricated or temporary buildings		Rands	R	140.00	m²	includes suit suit, excludes disposal of waste
3.4	110mm Brick wall	1	Rands	R	15.00	m²	
	230mm Brick wall	:	Rands Rands	R R	30.00 320.00	m² m²	aisala valuesa kuilaisaa
	Workshop & Stores Workshop & Stores		Rands	R	320.00	m²	single volume buildings double volume buildings
4	Concrete						
	Heavy concrete, thickness greater than 750mm	:	Rands	R	1 280.00	m ³	bulk and heavy reinforced concrete
	Medium concrete, thickness between 250 and 750mm Light concrete, thickness less than 250mm		Rands Rands	R R	640.00 400.00	m³ m³	Heavy reinforced concrete reinforced concrete
	Floors, bases and foundations after removal of superstructure	:	Rands	R	215.00	m²	250mm floors with 500mm bases on 30% of the area
4.5	Heavy duty floors, bases and foundations after removal of superstructure	:	Rands	R	590.00	m²	400mm floors with 800mm bases on 30% of the area
4.6	Strip footings	:	Rands	R	135.00	m	
	Column footings	:	Rands	R	280.00	no	
5.1	Linear items Conveyors						
5.1.1	Overland conveyor - light, no cladding	:	Rands	R	215.00	m	
5.1.2	Overland conveyor - medium	:	Rands	R	265.00	m	
5.1.3 5.1.4	Overland conveyor - heavy Suspended conveyor - light to medium		Rands Rands	R R	320.00 535.00	m	
5.1.5	Suspended conveyor - heavy with cladding	:	Rands	R	640.00	m	
5.2	Pipelines					-	
5.2.1 5.2.2	Overland steel pipelines on plinths (<200mm) Overland steel pipelines on plinths (200-350mm)	:	Rands Rands	R R	27.00 48.00	m	5m plinth spacing, includes disposal of waste @ 10km 5m plinth spacing, includes disposal of waste @ 10km
5.2.2	Overland steel pipelines on plinths (200-500mm) Overland steel pipelines on plinths (350-500mm)	:	Rands	R	64.00	m	5m plinth spacing, includes disposal of waste @ 10km 5m plinth spacing, includes disposal of waste @ 10km
	Overland power lines						
5.3.1 5.3.2	Minor lines Major lines	:	Rands Rands	R R	27.00 80.00	m m	
	Railway lines	•	. vanuð	Ê	50.00		
5.4.1	Electrified	:	Rands	R	295.00	m	excludes ballast and rehab
5.4.2	Non - electrified Fencing	:	Rands	R	215.00	m	excludes ballast and rehab
5.5.1	Erect security fencing	:	Rands	R	133.00	m	
5.5.2	Erect stock fencing	:	Rands	R	27.00	m	
5.5.3	Dismantling of security fencing	:	Rands	R	27.00	m	
5.5.4 5.5.5	Dismantling of stock fencing Dismantling of steel palisade fencing	:	Rands Rands	R R	8.00 58.00	m	
5.5.6	Dismantling of concrete palisade fencing	:	Rands	R	120.00	m	
	Waste		Dond-			0/	
	Sorting and screening of waste Disposal of waste	:	Rands	-	2.5	%	
6.2.1	Disposal of inert demolition waste	:	Rands	R	28.00	m³/km	50km haul distance
6.2.2	Disposal of hazardous waste	:	Rands	R	805.00	m³	excludes transport
6.3 6.3.1	Decontamination of equipment Decontamination of equipment - small projects	•	Rands	-	5	%	of overall dismantling of steel structures
6.3.2	Decontamination of equipment - large projects	:	Rands		2.5	%	of overall dismanting of steel structures
	Removal and disposal of single HDPE liner	:	Rands	R	6.50	m²	
7	Shaft and portals Shafts						
7.1.1	Sealing of vertical shaft	:	Rands	R	714 220.00	sum	3m diameter
7.1.2	Sealing of vertical shaft	:	Rands	R	810 160.00	sum	3.5m diameter
7.1.3	Sealing of vertical shaft	:	Rands	R	986 050.00	sum	4m diameter
7.1.4	Sealing of vertical shaft Sealing of vertical shaft		Rands Rands	R R	1 087 320.00 1 332 500.00	sum sum	4.5m diameter 5m diameter
7.1.6	Sealing of vertical shaft	:	Rands	R	1 375 140.00	sum	5.5m diameter





7.1.7							
	Sealing of vertical shaft	:	Rands	R	1 410 500.00	sum	6.0m diameter
7.1.8	Sealing of vertical shaft	:	Rands	R	1 492 400.00	sum	6.5m diameter
7.1.9	Sealing of vertical shaft	:	Rands	R	1 599 000.00	sum	7m diameter
7.1.10	Sealing of vertical shaft	:	Rands	R	1 719 458.00	sum	7.5m diameter
7.1.11	Sealing of vertical shaft	:	Rands	R	1 838 850.00	sum	8m diameter
7.1.12	Sealing of vertical shaft	:	Rands	R	1 982 760.00	sum	8.5m diameter
7.1.13	Sealing of vertical shaft	:	Rands	R	2 132 000.00	sum	9m diameter
7.1.14		:	Rands	R	2 281 240.00	sum	9.5m diameter
7.1.15	Sealing of vertical shaft	:	Rands	R	2 573 324.00	sum	10m diameter
7.1.16		:	Rands	R	2 665 000.00	sum	11m diameter
	Backfill incline shaft portal		Rands	R	31 980.00	sum	
7.3		•	Rands	R	213 200.00	sum	assume 100 000m ³ backfilled with waste rock <1km haul distance, excl topsoil
			Rands	R			
	Plug surface holing's Seal incline shaft			<u> </u>	200 000.00	sum	
		:	Rands	R	159 900.00	sum	
	Roads, hardstands and paving						
8.1		:	Rands	R	48.00	m²	layer works buried in trench next to road or 10km load and haul, but excludes disposal of tar
8.2	Major gravel roads with engineered surfaces	1	Rands	R	21.00	m²	layer works buried next to road or 10km load and haul
8.3	Minor gravel roads and tracks	:	Rands	R	4.00	m²	minor gravel roads and tracks (no layer works) - ripped, profiled and vegetated
8.4	Concrete slab or concrete liners	:	Rands	R	135.00	m²	thin concrete with minimal reinforcing
8.5	Removal of gunited embankments	:	Rands	R	80.00	m²	excludes disposal
8.6	Removal of brick paving & stone pitching	:	Rands	R	38.00	m²	
9	Earthworks						
9.1	Dozing						
9.1.1		:	Rands	R	13.50	m³	cut to fill including final profiling
9.1.2		:	Rands	R	11.00	m ^a	bulk dozing, no profiling
9.2	Excavation	÷	Rands	R	20.00	m ³	0. · F · U
9.3	Backfilling	<u> </u>		†	20.00		
9.3	Backfilling of final void		Rands	R	15.50	m³	large volumes: 50% dozing & 50% load and haul
9.3.1		<u> </u>	Rands	R		m° m³	large volumes: 50% dozing & 50% load and haul large volumes : 5km haul distance for bulk material
	Backfilling of final void	-		-	27.00		
9.4			Rands	R	3.50	m²	in layers of 250mm
9.5				-			
9.5.1	Ripping of areas to alleviate compaction	:	Rands	R	9 400.00	ha	500mm deep ripping
9.5.2	Deep ripping	:	Rands	R	13 800.00	ha	1000mm deep ripping
9.6				L			
9.6.1	Load and haul	:	Rands	R	28.00	m³	1km, small volumes
9.6.2	Extra over rates for hauling outside free haul distance	:	Rands	R	7.80	m³/km	small volumes
9.6.3	Load and haul for 4km distance	:	Rands	R	51.40	m³/km	small volumes
9.6.4	Load and haul	:	Rands	R	13.20	m³	1km, large volumes
9.6.5	Extra over rates for hauling outside free haul distance	:	Rands	R	22.00	m³/km	large volumes
9.6.6	Load and haul for 4km distance	:	Rands	R	163.20	m³/km	large volumes
9.6.7	Load and haul for 30km distance		Rands	R	100.00	m³/km	large volumes
	Reclamation on disturbed areas						
10.1		_					
10.1	Froming - dozer work			1			includes stockpiling of material, backfilling of excavations in cut to fill operation and final profiling @av
10.1.1	Shaping, leveling of infrastructural footprint areas (500mm)	:	Rands	R	55 250.00	ha	500mm over footprint
				_			includes stockpiling of material, backfilling of excavations in cut to fill operation and final profiling @av
10.1.2	Shaping, leveling of infrastructural footprint areas (750mm)	:	Rands	R	82 875.00	ha	750mm over footprint
10.1.3	Reshaping, profiling of dumps (general)	:	Rands	R	110 500.00	ha	
10.1.4	Profiling of disturbed areas (general)	:	Rands	R	939 250.00	ha	minimal dozing to make area free draining
10.1.5	Breach dam wall & reshape 1:5	1	Rands	R	220.00	m	approx. 5m high @ 1:5
	Import clean / removing contaminated soil						
10.2				R	88 400.00	ha	oronal and the analysis of Doolant
10.2 10.2.1	Import cover material and spread (250m)		Rands				2500m ³ over 1km average @ R32/m ³
			Rands Rands	R	127 000.00	ha	assume 4km haul distance
10.2.1	Import cover material and spread (250m)				127 000.00	ha	
10.2.1 10.2.2	Import cover material and spread (250m) Remove contaminated soil to 250mm average depth				127 000.00 94.00	ha m²	
10.2.1 10.2.2 10.3 10.3.1	Import cover material and spread (250m) Remove contaminated soil to 250mm average depth Capping / impermeable cover		Rands	R			
10.2.1 10.2.2 10.3 10.3.1	Import cover material and spread (250m) Remove contaminated soil to 250mm average depth Capping / impermeable cover Install 2mm HDPE liner		Rands	R			assume 4km haul distance
10.2.1 10.2.2 10.3 10.3.1 10.4	Import cover material and spread (250m) Remove contaminated soil to 250mm average depth Capping / impermeable cover Install 2mm HDPE liner Establish vegetation Establishment of vegetation (general)		Rands Rands	R R	94.00	m²	assume 4km haul distance includes soil amelioration, cultivation and seeding actions general on flat surfaces
10.2.1 10.2.2 10.3 10.3.1 10.4 10.4.1	Import cover material and spread (250m) Remove contaminated soil to 250mm average depth Capping / Imperneable cover Install 2mm HDPE liner Establish vegetation Establishment of vegetation (general) Establishment of vegetation on WRD and tailings dams		Rands Rands Rands	R R R	94.00 13 800.00 19 250.00	m² ha ha	assume 4km haul distance
10.2.1 10.2.2 10.3 10.3.1 10.4 10.4.1 10.4.2	Import cover material and spread (250m) Remove contaminated soil to 250mm average depth Capping / Imperneable cover Install 2mm HDPE liner Establish vegetation Establishment of vegetation (general) Establishment of vegetation on WRD and tailings dams Establish vegetation on backfilled pit areas Rip and establish vegetation on stockple footprint areas and haul		Rands Rands Rands Rands	R R R R	94.00 13 800.00	m² ha	assume 4km haul distance includes soil amelioration, cultivation and seeding actions general on flat surfaces
10.2.1 10.2.2 10.3 10.3.1 10.4 10.4.1 10.4.2 10.4.3 10.4.4	Import cover material and spread (250m) Remove contaminated soil to 250mm average depth Capping / Imperneable cover Install 2mm HDPE liner Establish vegetation Establishment of vegetation (general) Establishment of vegetation on WRD and tailings dams Establish vegetation on backfilled pit areas Rip and establish vegetation on stockpile footprint areas and haul roads		Rands Rands Rands Rands	R R R R	94.00 13 800.00 19 250.00	m² ha ha	assume 4km haul distance includes soil amelioration, cultivation and seeding actions general on flat surfaces
10.2.1 10.2.2 10.3 10.3.1 10.4 10.4.1 10.4.2 10.4.3 10.4.4	Import cover material and spread (250m) Remove contaminated soil to 250mm average depth Capping / Imperneable cover Install 2mm HDPE liner Establish vegetation Establishment of vegetation (general) Establishment of vegetation on WRD and tailings dams Establish vegetation on backfilled pit areas Rip and establish vegetation on stockple footprint areas and haul		Rands Rands Rands Rands Rands	R R R R R	94.00 13 800.00 19 250.00 4 400.00	m² ha ha ha	assume 4km haul distance includes soil amelioration, cultivation and seeding actions general on flat surfaces
10.2.1 10.2.2 10.3 10.3.1 10.4 10.4.1 10.4.2 10.4.3 10.4.4	Import cover material and spread (250m) Remove contaminated soil to 250mm average depth Capping / Imperneable cover Install 2mm HDPE liner Establish vegetation Establish vegetation (general) Establishment of vegetation on WRD and tailings dams Establish vegetation on backfilled pit areas Rip and establish vegetation on stockpile footprint areas and haul roads Plant and machinery		Rands Rands Rands Rands Rands	R R R R R	94.00 13 800.00 19 250.00 4 400.00	m² ha ha ha	assume 4km haul distance includes soil amelioration, cultivation and seeding actions general on flat surfaces
10.2.1 10.2.2 10.3 10.3.1 10.4 10.4.1 10.4.2 10.4.3 10.4.4 11	Import cover material and spread (250m) Remove contaminated soil to 250mm average depth Capping / Impermeable cover Install 2mm HDPE liner Establish vegetation Establish vegetation (general) Establishment of vegetation on WRD and tailings dams Establishment of vegetation on backfilled pit areas Rip and establish vegetation on backfilled pit areas Rip and establish vegetation on stockpile footprint areas and haul roads Plant and machinery Crane		Rands Rands Rands Rands Rands Rands	R R R R R	94.00 13 800.00 19 250.00 4 400.00 5 500.00	m² ha ha ha ha	assume 4km haul distance includes soil amelioration, cultivation and seeding actions general on flat surfaces general in topsoil layer on sloped areas
10.2.1 10.2.2 10.3 10.3.1 10.4 10.4.1 10.4.2 10.4.3 10.4.4 11.4 11.1 11.2	Import cover material and spread (250m) Remove contaminated soil to 250mm average depth Capping / Impermeable cover Install 2mm HDPE liner Establish vegetation Establish vegetation (general) Establishment of vegetation on WRD and tailings dams Establishment of vegetation on backfilled pit areas Rip and establish vegetation on backfilled pit areas Rip and establish vegetation on stockpile footprint areas and haul roads Plant and machinery Crane		Rands Rands Rands Rands Rands Rands Rands Rands	R R R R R R R	94.00 13 800.00 19 250.00 4 400.00 5 500.00 38 700.00	m² ha ha ha ha	assume 4km haul distance includes soil amelioration, cultivation and seeding actions general on flat surfaces general in topsoil layer on sloped areas excludes site establishment
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10.2.1 10.2.2 10.3 10.3.1 10.4 10.4.1 10.4.3 10.4.3 10.4.4 11 11.1 11.2 11.3 11.4 11.2 12.1 12.2 12.3 12.4	Import cover material and spread (250m) Remove contaminated soil to 250mm average depth Capping / Imperneable cover Install 2mm HDPE liner Establish vegetation Establish vegetation (general) Establishment of vegetation on WRD and tailings dams Establish vegetation on backfilled pit areas Rip and establish vegetation on stockpile footprint areas and haul roads Plant and machinery Crane Tib Excavator (20ton) Post closure aspects Surface water Groundwater Reclamation monitoring Care and maintenance		Rands	R R R R R R R R R R R R R R R R	94.00 13 800.00 19 250.00 4 400.00 5 500.00 38 700.00 2 800.00 4 200.00 6 850.00 32 000.00 60 000.00	m² ha ha ha p/day p/day p/day p/day p/day p/day yr yr	assume 4km haul distance includes soil amelioration, cultivation and seeding actions general on flat surfaces general in topsoil layer on sloped areas excludes site establishment excludes site establishment excludes site establishment f monitoring points on a monthly basis monitoring points on a quarterly basis
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10.2.1 10.2.2 10.3 10.3.1 10.4 10.4.1 10.4.2 10.4.3 10.4.4 11.1 11.2 11.3 11.4 12.1 12.2 12.3 12.4 13.3 13.4 14.2 14.3 13.4 14.4 14.5 15.1 15.2 16.1	Import cover material and spread (250m) Remove contaminated soil to 250mm average depth Capping / Impermeable cover Install Zmm HDPE liner Establish vegetation Establishment of vegetation (general) Establishment of vegetation on WRD and tailings dams Establish vegetation on backfilled pit areas Rip and establish vegetation on stockpile footprint areas and haul roads Plant and machinery Crane Tib Excavator (20ton) Post closure aspects Surface water Groundwater Reclamation monitoring Care and maintenance Specialists Work Specialists, soil and groundwater study Basic Assessment with Public Participation Integrated Water and Waste Management Plan (WWMP) and Water Use License Application (WULA) Waste License Application Cleaning of Stormwater system Cleaning of Stormwater system Cleaning of Stormwater system Cleaning of borehole Equipping of borehole Equipping of borehole Equipping of borehole Englise Comparement Plan (pipping) Other Unspecified		Rands	R R R R R R R R R R R R R R R R R R R	94.00 13 800.00 19 250.00 4 400.00 5 500.00 2 800.00 4 200.00 6 850.00 32 000.00 2 500.00 2 500.00 2 500.00 2 500.00 2 500.00 - - - - - - - - - - - - -	m ² ha ha ha ha p/day p/day p/day p/day yr yr yr yr yr yr yr sum sum sum sum sum sum sum sum sum	assume 4km haul distance includes soil amelioration, cultivation and seeding actions general on flat surfaces general in topsoil layer on sloped areas excludes site establishment excludes site establishment excludes site establishment excludes site establishment 1 monitoring points on a monthly basis 3 monitoring points on a quarterly basis 5 years 5 years Nominal allowance, not for large and complex and integrated sites Nominal allowance, not for large and complex and integrated sites Nominal allowance, not for large and complex and integrated sites Nominal allowance, not for large and complex and integrated sites Nominal allowance, not for large and complex and integrated sites Nominal allowance, not for large and complex and integrated sites Nominal allowance Nominal allowance Nominal allowance
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Task Task Task InscrieduledUnscheduledU		Executive Summary						
		Tasks	Unscheduled - Year 1 (2012)	Unscheduled - Year 2 (2013)	Unscheduled - Year 3 (2014)	Unscheduled - Year 4 (2015)	Unscheduled - Year 5 (2016)	Unscheduled - Year 6 (2017)
Image: constraint of the		Closure Aspects						
		Infrastructural aspects	R -	R -	Р.	R -	Р.	R -
Ition R \cdot \cdot R \cdot \cdot R \cdot \cdot \cdot R \cdot \cdot \cdot R \cdot \cdot \cdot R \cdot		Mining aspects	R -	4		Я	ч ,	Я.
	(1)	General surface reclamation	R '					R -
SUB - TOTAL 1 R 4 994 413.00 R 29 304.00 R <	4	Water management	R -	R -	R -	R -	R -	R -
		SUB - TOTAL 1 (for infrastructural and related structures)	R -	4		R -	R -	R -
SUB - TOTAL 2 R c 29 948.00 R c 29 948.00 R C 29 948.00 R C 29 948.00 R C 20 R C 20 C R C 20 C R C 20 C R C R C 20 R C 20 R C 20 R C R C R C R C R C R C R C R C R C R C R C R C R C R C R C C R C C R R C	3	Post closure aspects	R -	572 680.00		R -	R -	R -
R - R 599 329.56 R 1 758.24 R - R - - R - - R - - R - R - - R - - R - R - R - - R - - R - - R - - R - - R - - R - - R - - R - - R - - R - - R - - R - - R - - R - - R - - R - - R - - R - R - R - R - R - R - R - R - R - R R R R R		SUB - TOTAL 2 (for post - closure aspects)	R -			R -	R -	R -
R - R 599 329.56 R 1 758.24 R - - R - R - R - R - R - R - R - R - R - R - R - R - R - R - R - R - R R R	9	Additional allowances						
R - R 499 441.30 R 2 930.40 R - R - R - R - R - R - R - R - R - R - R - R - R - R - R - R - Image: R -	6.1	Preliminary and General	R .	599 329.56		R -		R -
R R 1098 770.86 R 4688.64 R - R R	6.2	Contingencies	R -			R -	R -	- S
R - R 6 723 131.86 R 663 940.64 R - R - R		SUB - TOTAL 3 (for additional allowances)	R -			R -	R -	R -
		Grand - Total (for sub - total 1+2+3)	R .			R -	R -	R .



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	Executive Summary					
	Tasks	Unscheduled - Year 7 (2018)	Unscheduled - Year 8 (2019)	Unscheduled - Year 9 (2020)	Unscheduled - Year 10 (2021)	Scheduled Closure
	Closure Aspects					
,-	1 Infrastructural aspects	Я.	Я.	R -	R -	Я.
	2 Mining aspects	R '	R -	R -	R -	R -
	3 General surface reclamation	Р.	R -	R -	R -	R -
7	4 Water management	R -	R -	R -	R -	R -
	SUB - TOTAL 1 (for infrastructural and related structures)	R -	R -	R -	R -	R -
3	5 Post closure aspects	R -	R -	R -	R -	R -
	SUB - TOTAL 2 (for post - closure aspects)	R -	R -	R .	R .	R .
3	6 Additional allowances					
.9	6.1 Preliminary and General	R -	R -	R -	R -	R -
6.2	6.2 Contingencies	R -	R -	R -	R -	R -
	SUB - TOTAL 3 (for additional allowances)	R -	R -	R -	R .	R .
	Grand - Total (for sub - total 1+2+3)	R .	R .	R .	R -	R .



Confidential



		Closure Costing - Opencast Area					Closure	Costs	- <u>Year 1 (201</u>	2)
ltem nr	ID	Task	Unit Rate Code	Unit	Quantity		Rate		Amount	Notes
1		Infrastructural Aspects								
2		Not applicable	1.1	na	0.00	R	-	R	-	
3		Sub - Total for infrastructural aspects						R	-	
4										
5		Mining Aspects								
6		Open pit reclamation including final voids and ramps								
7		Pit 8C				_		-		Operations to start in 2013
8		Backfill pit void	1.1	na	0.00	R	-	R	-	
9 10		Replace topsoil on pit area	1.1	na	0.00	R R	-	R R	-	
10		Establish vegetation on pit area	1.1	na	0.00	к	-	ĸ	-	
11		Rip and establish vegetation on stockpile footprint areas and haul roads	1.1	na	0.00	R		R		
12		Sub - Total for Mining aspects						R	-	
13										
14		General Surface Reclamation								
15		Not applicable	1.1	na	0.00	R	-	R		
16		Sub - Total for General Surface Reclamation						R	-	
17										
18		Water Management								
19		Not applicable	1.1	na	0.00	R	-	R	-	
20		Sub - Total for Water Management						R	-	
21										
22		SUB - TOTAL 1 (for infrastructural and related structures)						R	-	
23		Post - closure aspects								
24		Surface water guality monitoring	12.1	yr	0.00	R	32 000.00	R	-	No disturbance taken place
25		Groundwater quality monitoring	12.2	vr	0.00	R	60 000.00			No disturbance taken place
26			12.3		0.00	R	0.500.00			No disturbance taken place
20		Reclamation monitoring on reclaimed areas	12.3	ha	0.00	ĸ	2 500.00	ĸ	-	
27		Care and maintenance of reclaimed areas	12.4	ha	0.00	R	15 500.00	R		No disturbance taken place
28		Sub - Total for Post closure aspects						R	-	
29		Contingencies for post closure aspects	1.2	sum	1.00	R	-	R	-	Assumed 10 percent for post closure aspects
30		Sub - Total for Contingencies for post closure aspects						R	-	
31		SUB - TOTAL 2 (for post - closure aspects)						R	-	
32		Additional allowances								
33		Preliminary and General	1.2	sum	1.00	R		R		Assume 12 percent of sub - total 1
33		Contingencies	1.2	sum	1.00	R		R		Assume 12 percent of sub - total 1 Assume 10 percent of sub - total 1
		SUB - TOTAL 3		Juni	1.00					
35		(for additional allowances)						R	•	
36		Grand - Total (for sub - total 1+2+3)						R	-	





		Closure Costing - Opencast Area					Closure	Cost	s - <u>Year 2 (201</u>	<u>3)</u>
ltem nr	ID	Task	Unit Rate Code	Unit	Quantity		Rate		Amount	Notes
1		Infrastructural Aspects								
2		Not applicable	1.1	na	0.00	R		R	-	
3		Sub - Total for infrastructural aspects						R	-	
4										
5		Mining Aspects								
6		Open pit reclamation including final voids and ramps								
7		Pit 8C								Operational
8		Backfill pit void	9.3.1	m³	266106.00	R	15.50		4 124 643.00	Provided by operational staff
9		Replace topsoil on pit area	9.1.2	m³	76406.00	R		R	840 466.00	Provided by operational staff
10		Establish vegetation on pit area	10.4.3	ha	4.66	R	4 400.00	R	20 504.00	Measured from drawing
11		Rip and establish vegetation on stockpile footprint areas and haul roads	10.4.4	ha	1.60	R	5 500.00	R	8 800.00	Measured from drawing
12		Sub - Total for Mining aspects						R	4 994 413.00	
13										
14		General Surface Reclamation								
15		Not applicable	1.1	na	0.00	R	-	R	-	
16		Sub - Total for General Surface Reclamation						R	-	
17										
18		Water Management								
19		Not applicable	1.1	na	0.00	R	-	R	-	
20		Sub - Total for Water Management						R	-	
21										
22		SUB - TOTAL 1 (for infrastructural and related structures)						R	4 994 413.00	
23		Post - closure aspects								
24		Surface water quality monitoring	12.1	vr	5.00	R	32 000.00	R	160 000.00	Allowance for 5 years post closure
25		Groundwater quality monitoring	12.2	yr	5.00	R	60 000.00		300 000.00	Allowance for 5 years post closure
										Assumed over a 5 year period, over the entire
26		Reclamation monitoring on reclaimed areas	12.3	ha	6.26	R	2 500.00	к	15 650.00	disturbed opencast areas
07						R	15 500 00			Assumed over a 5 year period, over the entire
27		Care and maintenance of reclaimed areas	12.4	ha	6.26	к	15 500.00		97 030.00	disturbed opencast areas.
28		Sub - Total for Post closure aspects				_		R	572 680.00	
29		Contingencies for post closure aspects	1.2	sum	1.00	R	57 268.00	R	57 268.00	Assumed 10 percent for post closure aspects
30		Sub - Total for Contingencies for post closure aspects						R	57 268.00	
31		SUB - TOTAL 2 (for post - closure aspects)						R	629 948.00	
32		Additional allowances								
33		Preliminary and General	1.2	sum	1.00	R	599 329.56	R	599 329.56	Assume 12 percent of sub - total 1
34		Contingencies	1.2	sum	1.00	R	499 441.30	R	499 441.30	Assume 10 percent of sub - total 1
35		SUB - TOTAL 3 (for additional allowances)						R	1 098 770.86	
36		Grand - Total (for sub - total 1+2+3)						R	6 723 131.86	





		Closure Costing - Opencast Area					Closure	Cost	s - <u>Year 3 (201</u>	<u>4)</u>
ltem nr	ID	Task	Unit Rate Code	Unit	Quantity		Rate		Amount	Notes
1		Infrastructural Aspects								
2		Not applicable	1.1	na	0.00	R	-	R	-	
3		Sub - Total for infrastructural aspects						R		
4										
5		Mining Aspects								
6		Open pit reclamation including final voids and ramps								
7		Pit 8C						_		Operational
8		Backfill pit void	9.3.1	m³	0.00	R	15.50		-	Completed in month 19
9		Replace topsoil on pit area	9.1.2	m ³	0.00	R	11.00		-	Completed in month 20
10		Establish vegetation on pit area	10.4.3	ha	4.66	R	4 400.00	к	20 504.00	Measured from drawing
11		Rip and establish vegetation on stockpile footprint areas and haul roads	10.4.4	ha	1.60	R	5 500.00		8 800.00	Measured from drawing
12		Sub - Total for Mining aspects						R	29 304.00	
13										
14		General Surface Reclamation								
15		Not applicable	1.1	na	0.00	R	-	R		
16		Sub - Total for General Surface Reclamation						R	-	
17										
18		Water Management								
19		Not applicable	1.1	na	0.00	R	-	R		
20		Sub - Total for Water Management						R	-	
21										
22		SUB - TOTAL 1 (for infrastructural and related structures)						R	29 304.00	
23		Post - closure aspects								
24		Surface water quality monitoring	12.1	yr	5.00	R	32 000.00	R	160 000.00	Allowance for 5 years post closure
25		Groundwater quality monitoring	12.2	yr	5.00	R	60 000.00		300 000.00	Allowance for 5 years post closure
26		Reclamation monitoring on reclaimed areas	12.3	ha	6.26	R	2 500.00		15 650.00	Assumed over a 5 year period, over the entire disturbed opencast areas
20		reclamation monitoring on reclaimed areas	12.0	na	0.20	IX.	2 300.00	IX.	15 050.00	Assumed over a 5 year period, over the entire
27		Care and maintenance of reclaimed areas	12.4	ha	6.26	R	15 500.00	R	97 030.00	disturbed opencast areas.
28		Sub - Total for Post closure aspects						R	572 680.00	
29		Contingencies for post closure aspects	1.2	sum	1.00	R	57 268.00	R	57 268.00	Assumed 10 percent for post closure aspects
30		Sub - Total for Contingencies for post closure aspects				l''	2. 200.00	R	57 268.00	
31		SUB - TOTAL 2						R	629 948.00	
32		(for post - closure aspects) Additional allowances								
			1.0		1.00		0.510.10		0.540.40	
33 34		Preliminary and General	1.2	sum	1.00	R R	3 516.48 2 930.40	R R	3 516.48 2 930.40	Assume 12 percent of sub - total 1 Assume 10 percent of sub - total 1
ა4		Contingencies	1.2	sum	1.00	ĸ	∠ 930.40	ĸ	2 930.40	Assume to percent of sub - total 1
35		SUB - TOTAL 3 (for additional allowances)						R	6 446.88	
36		Grand - Total (for sub - total 1+2+3)						R	665 698.88	





		Closure Costing - Opencast Area					Closure	Cost	s - <u>Year 4 (201</u>	5)
ltem nr	ID	Task	Unit Rate Code	Unit	Quantity		Rate		Amount	Notes
1		Infrastructural Aspects								
2		Not applicable	1.1	na	0.00	R	-	R		
3		Sub - Total for infrastructural aspects						R	-	
4										
5		Mining Aspects								
6		Open pit reclamation including final voids and ramps								
7		Pit 8C				_		_		Rehabilitated
8		Backfill pit void	9.3.1	m³	0.00	R		R	-	
9 10		Replace topsoil on pit area	9.1.2 10.4.3	m ³	0.00	R R		R	-	
10		Establish vegetation on pit area	10.4.3	ha	0.00	к	4 400.00	R	-	
11		Rip and establish vegetation on stockpile footprint areas and haul roads	10.4.4	ha	0.00	R	5 500.00			
12		Sub - Total for Mining aspects	10.4.4	па	0.00	R	5 500.00	R		
12		Sub - Lotal for Mining aspects				-		к		
13		General Surface Reclamation				_	_	_		
14		Not applicable	1.1		0.00	R		R		
			1.1	na	0.00	к	-	R		
16 17		Sub - Total for General Surface Reclamation						ĸ	-	
17		Water Management				_	_	_		
					0.00					
19		Not applicable	1.1	na	0.00	R	-	R	-	
20 21		Sub - Total for Water Management						ĸ	-	
21										
22		SUB - TOTAL 1 (for infrastructural and related structures)						R	-	
23		Post - closure aspects								
23			12.1		0.00		32 000.00			Area fully rehabilitated
		Surface water quality monitoring		yr		R	60 000.00			
25		Groundwater quality monitoring	12.2	yr	0.00	R	60 000.00	к		Area fully rehabilitated
26		Reclamation monitoring on reclaimed areas	12.3	ha	0.00	R	2 500.00	Б		Area fully rehabilitated
20		Reclamation monitoring on reclaimed areas	12.3	IId	0.00	ĸ	2 300.00	R.		
27		Care and maintenance of reclaimed areas	12.4	ha	0.00	R	15 500.00	R		Area fully rehabilitated
28		Sub - Total for Post closure aspects		110	0.00		10 000.00	R	-	
29		Contingencies for post closure aspects	1.2	sum	1.00	R	-	R		Assumed 10 percent for post closure aspects
30		Sub - Total for Contingencies for post closure aspects				1		R	-	
		SUB - TOTAL 2								
31		(for post - closure aspects)						R	-	
32		Additional allowances								
33		Preliminary and General	1.2	sum	1.00	R		R		Assume 12 percent of sub - total 1
34		Contingencies	1.2	sum	1.00	R		R		Assume 12 percent of sub - total 1
		SUB - TOTAL 3				<u> </u>				
35		(for additional allowances)						R	-	
		Grand - Total								
36		(for sub - total 1+2+3)						R	-	





		Closure Costing - Opencast Area					Closure	Cost	s - <u>Year 5 (201</u>	<u>6)</u>
ltem nr	ID	Task	Unit Rate Code	Unit	Quantity		Rate		Amount	Notes
1		Infrastructural Aspects								
2		Not applicable	1.1	na	0.00	R	-	R	-	
3		Sub - Total for infrastructural aspects						R	-	
4										
5		Mining Aspects								
6		Open pit reclamation including final voids and ramps								
7		Pit 8C				_		_		Rehabilitated
8		Backfill pit void	9.3.1	m ³	0.00	R		R	-	
9 10		Replace topsoil on pit area	9.1.2 10.4.3	m³ ha	0.00	R R		R R		
10		Establish vegetation on pit area	10.4.3	па	0.00	ĸ	4 400.00	ĸ		
11		Rip and establish vegetation on stockpile footprint areas and haul roads	10.4.4	ha	0.00	R	5 500.00	Б		
12		Sub - Total for Mining aspects	10.4.4	IId	0.00	ĸ	5 500.00	R		
12		Sub - Total for Milling aspects				-		ĸ		
14		General Surface Reclamation								
15		Not applicable	1.1	na	0.00	R		R		
16		Sub - Total for General Surface Reclamation	1.1	na	0.00	IX.	-	R		
17		Sub - Totarior General Surface Reclamation						ĸ		
18		Water Management								
19		Not applicable	1.1	na	0.00	R		R		
20		Sub - Total for Water Management		110	0.00	<u> </u>		R		
21		oub rotarior management								
22		SUB - TOTAL 1 (for infrastructural and related structures)						R	-	
23		Post - closure aspects								
24		Surface water quality monitoring	12.1	vr	0.00	R	32 000.00	R		Area fully rehabilitated
25		Groundwater quality monitoring	12.2	yr	0.00	R	60 000.00			Area fully rehabilitated
26		Reclamation monitoring on reclaimed areas	12.3	ha	0.00	R	2 500.00	R	-	Area fully rehabilitated
27		Care and maintenance of reclaimed areas	12.4	ha	0.00	R	15 500.00			Area fully rehabilitated
27		Sub - Total for Post closure aspects	12.4	па	0.00	ĸ	15 500.00	R		
20		Contingencies for post closure aspects	1.2	sum	1.00	R		R	-	Assumed 10 percent for post closure aspects
29 30		Sub - Total for Contingencies for post closure aspects	1.2	sum	1.00	ĸ	-	R		Assumed to percent for post closure aspects
		Sub - Total for Contingencies for post closure aspects								
31		(for post - closure aspects)						R		
32		Additional allowances								
33		Preliminary and General	1.2	sum	1.00	R	-	R	-	Assume 12 percent of sub - total 1
34		Contingencies	1.2	sum	1.00	R	-	R	-	Assume 10 percent of sub - total 1
35		SUB - TOTAL 3						R		
		(for additional allowances)								
36		Grand - Total (for sub - total 1+2+3)						R	-	





		Closure Costing - Opencast Area					Closure	Cost	s - <u>Year 6 (201</u>	7)
ltem nr	ID	Task	Unit Rate Code	Unit	Quantity		Rate		Amount	Notes
1		Infrastructural Aspects								
2		Not applicable	1.1	na	0.00	R	-	R		
3		Sub - Total for infrastructural aspects						R	-	
4										
5		Mining Aspects								
6		Open pit reclamation including final voids and ramps								
7		Pit 8C				_		_		Rehabilitated
8		Backfill pit void	9.3.1	m ³	0.00	R		R	-	
9 10		Replace topsoil on pit area	9.1.2 10.4.3	m ³	0.00	R R		R	-	
10		Establish vegetation on pit area	10.4.3	ha	0.00	к	4 400.00	R	-	
11		Rip and establish vegetation on stockpile footprint areas and haul roads	10.4.4	ha	0.00	R	5 500.00			
12		Sub - Total for Mining aspects	10.4.4	na	0.00	ĸ	5 500.00	R		
12		Sub - Lotal for Mining aspects						к		
13		General Surface Reclamation				_	_	_		
14		Not applicable	1.1		0.00	R		R		
			1.1	na	0.00	к	-	R		
16 17		Sub - Total for General Surface Reclamation						ĸ	-	
17		Water Management				_	_	_		
					0.00					
19		Not applicable	1.1	na	0.00	R	-	R	-	
20 21		Sub - Total for Water Management						ĸ	-	
21										
22		SUB - TOTAL 1 (for infrastructural and related structures)						R	-	
23		Post - closure aspects								
23			12.1		0.00		32 000.00			Area fully rehabilitated
		Surface water quality monitoring		yr		R R	60 000.00			Area fully rehabilitated
25		Groundwater quality monitoring	12.2	yr	0.00	к	60 000.00	к		Area fully rehabilitated
26		Reclamation monitoring on reclaimed areas	12.3	ha	0.00	R	2 500.00	Б		Area fully rehabilitated
20		Reclamation monitoring on reclaimed areas	12.3	IId	0.00	ĸ	2 300.00	R.		
27		Care and maintenance of reclaimed areas	12.4	ha	0.00	R	15 500.00	R		Area fully rehabilitated
28		Sub - Total for Post closure aspects		na	0.00		10 000.00	R	-	
29		Contingencies for post closure aspects	1.2	sum	1.00	R	-	R		Assumed 10 percent for post closure aspects
30		Sub - Total for Contingencies for post closure aspects	1.2	Juli	1.00	IX.	-	R		Assumed to percent for post closure aspecta
		SUB - TOTAL 2								
31		(for post - closure aspects)						R	-	
32		Additional allowances								
33		Preliminary and General	1.2	sum	1.00	R		R		Assume 12 percent of sub - total 1
34		Contingencies	1.2	sum	1.00	R	-	R		Assume 12 percent of sub - total 1
		SUB - TOTAL 3		cam						
35		(for additional allowances)						R	-	
		Grand - Total								
36		(for sub - total 1+2+3)						R	-	





		Closure Costing - Opencast Area					Closure	Cost	s - <u>Year 7 (201</u>	8)
ltem nr	ID	Task	Unit Rate Code	Unit	Quantity		Rate		Amount	Notes
1		Infrastructural Aspects								
2		Not applicable	1.1	na	0.00	R	-	R		
3		Sub - Total for infrastructural aspects						R	-	
4										
5		Mining Aspects								
6		Open pit reclamation including final voids and ramps								
7		Pit 8C				_		_		Rehabilitated
8		Backfill pit void	9.3.1	m³	0.00	R		R	-	
9 10		Replace topsoil on pit area	9.1.2 10.4.3	m ³	0.00	R R		R	-	
10		Establish vegetation on pit area	10.4.3	ha	0.00	к	4 400.00	R	-	
11		Rip and establish vegetation on stockpile footprint areas and haul roads	10.4.4	ha	0.00	R	5 500.00			
12			10.4.4	па	0.00	ĸ	5 500.00	R		
12		Sub - Total for Mining aspects						ĸ	-	
13		General Surface Reclamation				_				
14		Not applicable	1.1		0.00	R		R		
			1.1	na	0.00	к	-	R		
16 17		Sub - Total for General Surface Reclamation						ĸ	-	
17		Water Management				_				
					0.00					
19		Not applicable	1.1	na	0.00	R	-	R	-	
20 21		Sub - Total for Water Management						ĸ	-	
21								_		
22		SUB - TOTAL 1 (for infrastructural and related structures)						R	-	
23		Post - closure aspects				-				
24		Surface water quality monitoring	12.1	vr	0.00	R	32 000.00	D		Area fully rehabilitated
24		Groundwater quality monitoring	12.1		0.00	R	60 000.00			Area fully rehabilitated
25		Groundwater quality monitoring	12.2	yr	0.00	ĸ	60 000.00	ĸ	-	· · · ·
26		Reclamation monitoring on reclaimed areas	12.3	ha	0.00	R	2 500.00	P		Area fully rehabilitated
20			12.0	110	0.00		2 000.00			
27		Care and maintenance of reclaimed areas	12.4	ha	0.00	R	15 500.00	R		Area fully rehabilitated
28		Sub - Total for Post closure aspects				1		R	-	
29		Contingencies for post closure aspects	1.2	sum	1.00	R		R	-	Assumed 10 percent for post closure aspects
30		Sub - Total for Contingencies for post closure aspects				1		R	-	
		SUB - TOTAL 2								
31		(for post - closure aspects)						R	-	
32		Additional allowances								
33		Preliminary and General	1.2	sum	1.00	R		R		Assume 12 percent of sub - total 1
34		Contingencies	1.2	sum	1.00	R	-	R		Assume 12 percent of sub - total 1
		SUB - TOTAL 3		- ann						
35		(for additional allowances)						R	-	
		Grand - Total								
36		(for sub - total 1+2+3)						R	-	





		Closure Costing - Opencast Area					Closure	Cost	s - <u>Year 8 (201</u>	<u>9)</u>
ltem nr	ID	Task	Unit Rate Code	Unit	Quantity		Rate		Amount	Notes
1		Infrastructural Aspects								
2		Not applicable	1.1	na	0.00	R	-	R	-	
3		Sub - Total for infrastructural aspects						R	-	
4										
5		Mining Aspects								
6		Open pit reclamation including final voids and ramps								
7		Pit 8C						_		Rehabilitated
8		Backfill pit void	9.3.1	m ³	0.00	R		R	-	
9 10		Replace topsoil on pit area	9.1.2 10.4.3	m ³	0.00	R R		R	-	
10		Establish vegetation on pit area	10.4.3	ha	0.00	к	4 400.00	R	-	
11		Rip and establish vegetation on stockpile footprint areas and haul roads	10.4.4	ha	0.00	R	5 500.00			
12		Sub - Total for Mining aspects	10.4.4	na	0.00	ĸ	5 500.00	R	-	
12		Sub - Lotal for Mining aspects						ĸ	-	
13		General Surface Reclamation				_	_			
14		Not applicable	1.1		0.00	R		R		
			1.1	na	0.00	к	-	R	-	
16 17		Sub - Total for General Surface Reclamation						ĸ	-	
17		Water Management				_				
					0.00					
19		Not applicable	1.1	na	0.00	R	-	R	-	
20 21		Sub - Total for Water Management						ĸ	-	
21								_		
22		SUB - TOTAL 1 (for infrastructural and related structures)						R	-	
23		Post - closure aspects								
23			12.1		0.00		32 000.00			Area fully rehabilitated
		Surface water quality monitoring		yr		R	60 000.00			
25		Groundwater quality monitoring	12.2	yr	0.00	R	60 000.00	к	-	Area fully rehabilitated
26		Reclamation monitoring on reclaimed areas	12.3	ha	0.00	R	2 500.00	Б		Area fully rehabilitated
20		Reclamator monitoring on reclaimed areas	12.0	na	0.00	IX.	2 300.00	IX.	-	
27		Care and maintenance of reclaimed areas	12.4	ha	0.00	R	15 500.00	R	-	Area fully rehabilitated
28		Sub - Total for Post closure aspects		na	0.00		10 000.00	R	-	
29		Contingencies for post closure aspects	1.2	sum	1.00	R	-	R		Assumed 10 percent for post closure aspects
30		Sub - Total for Contingencies for post closure aspects				1		R	-	
		SUB - TOTAL 2								
31		(for post - closure aspects)						R	-	
32		Additional allowances								
33		Preliminary and General	1.2	sum	1.00	R		R		Assume 12 percent of sub - total 1
34		Contingencies	1.2	sum	1.00	R		R	-	Assume 12 percent of sub - total 1
		SUB - TOTAL 3				<u> </u>				
35		(for additional allowances)						R	-	
		Grand - Total								
36		(for sub - total 1+2+3)						R	-	





Closure Costing - Opencast Area			Closure Costs - <u>Year 9 (2020)</u>									
ltem nr	ID	Task	Unit Rate Code	Unit	Quantity		Rate		Amount	Notes		
1		Infrastructural Aspects										
2		Not applicable	1.1	na	0.00	R	-	R				
3		Sub - Total for infrastructural aspects						R	-			
4												
5		Mining Aspects										
6		Open pit reclamation including final voids and ramps										
7		Pit 8C						_		Rehabilitated		
8		Backfill pit void	9.3.1	m³	0.00	R		R	-			
9 10		Replace topsoil on pit area	9.1.2 10.4.3	m ³	0.00	R R		R	-			
10		Establish vegetation on pit area	10.4.3	ha	0.00	к	4 400.00	R	-			
11		Rip and establish vegetation on stockpile footprint areas and haul roads	10.4.4	ha	0.00	R	5 500.00					
12		Sub - Total for Mining aspects	10.4.4	па	0.00	R	5 500.00	R				
12		Sub - Total for Mining aspects				-		к				
13		General Surface Reclamation				_	_	_				
14		Not applicable	1.1		0.00	R		R				
			1.1	na	0.00	к	-	R				
16 17		Sub - Total for General Surface Reclamation						ĸ	-			
17		Water Management				_	_	_				
					0.00							
19		Not applicable	1.1	na	0.00	R	-	R	-			
20 21		Sub - Total for Water Management						ĸ	-			
21												
22		SUB - TOTAL 1 (for infrastructural and related structures)						R	-			
23		Post - closure aspects										
23			12.1		0.00		32 000.00			Area fully rehabilitated		
		Surface water quality monitoring		yr		R	60 000.00					
25		Groundwater quality monitoring	12.2	yr	0.00	R	60 000.00	к		Area fully rehabilitated		
26		Reclamation monitoring on reclaimed areas	12.3	ha	0.00	R	2 500.00	Б		Area fully rehabilitated		
20		Reclamation monitoring on reclaimed areas	12.3	IId	0.00	ĸ	2 300.00	R.				
27		Care and maintenance of reclaimed areas	12.4	ha	0.00	R	15 500.00	R		Area fully rehabilitated		
28		Sub - Total for Post closure aspects		110	0.00		10 000.00	R	-			
29		Contingencies for post closure aspects	1.2	sum	1.00	R	-	R		Assumed 10 percent for post closure aspects		
30		Sub - Total for Contingencies for post closure aspects	1.44	Jun	1.00	1		R				
		SUB - TOTAL 2										
31		(for post - closure aspects)						R	-			
32		Additional allowances										
33		Preliminary and General	1.2	sum	1.00	R		R		Assume 12 percent of sub - total 1		
34		Contingencies	1.2	sum	1.00	R	-	R		Assume 12 percent of sub - total 1		
		SUB - TOTAL 3		- ann								
35		(for additional allowances)						R	-			
		Grand - Total										
36		(for sub - total 1+2+3)						R	-			





Closure Costing - Opencast Area			Ciosure Costs - <u>Year 10 (2021)</u>									
item nr	ID	Task	Unit Rate Code	Unit	Quantity		Rate		Amount	Notes		
1		Infrastructural Aspects										
2		Not applicable	1.1	na	0.00	R	-	R				
3		Sub - Total for infrastructural aspects						R	-			
4												
5		Mining Aspects										
6		Open pit reclamation including final voids and ramps										
7		Pit 8C			0.00	_	15.50			Rehabilitated		
8		Backfill pit void	9.3.1 9.1.2	m³ m³	0.00	R R		R R	-			
9 10		Replace topsoil on pit area Establish vegetation on pit area	9.1.2	ha	0.00	R		R				
10		Establish vegetation on pit area	10.4.3	IId	0.00	ĸ	4 400.00	ĸ				
11		Rip and establish vegetation on stockpile footprint areas and haul roads	10.4.4	ha	0.00	R	5 500.00	P				
12		Sub - Total for Mining aspects	10.4.4	na	0.00	IX.	3 300.00	R	-			
13		Sub - Total for mining aspecta						IX.				
14		General Surface Reclamation										
15		Not applicable	1.1	na	0.00	R		R				
16		Sub - Total for General Surface Reclamation		The second	0.00	<u> </u>		R				
17						1		ĸ	=			
18		Water Management										
19		Not applicable	1.1	na	0.00	R		R				
20		Sub - Total for Water Management						R	-			
21												
22		SUB - TOTAL 1 (for infrastructural and related structures)						R				
23		Post - closure aspects				-		_				
24		Surface water quality monitoring	12.1	٧٢	0.00	R	32 000.00	•		Area fully rehabilitated		
24		Groundwater quality monitoring	12.1	yr yr	0.00	R	60 000.00			Area fully rehabilitated		
23		Groundwater quality monitoring	12.2	yı	0.00	ĸ	00 000.00	ĸ		· · · ·		
26		Reclamation monitoring on reclaimed areas	12.3	ha	0.00	R	2 500.00	R	-	Area fully rehabilitated		
27		Care and maintenance of reclaimed areas	12.4	ha	0.00	R	15 500.00			Area fully rehabilitated		
28		Sub - Total for Post closure aspects						R	-			
29		Contingencies for post closure aspects	1.2	sum	1.00	R	-	R	-	Assumed 10 percent for post closure aspects		
30		Sub - Total for Contingencies for post closure aspects						R	-			
31		SUB - TOTAL 2 (for post - closure aspects)						R	-			
32		Additional allowances										
33		Preliminary and General	1.2	sum	1.00	R	-	R		Assume 12 percent of sub - total 1		
34		Contingencies	1.2	sum	1.00	R	-	R	-	Assume 10 percent of sub - total 1		
35		SUB - TOTAL 3 (for additional allowances)						R	-			
36		Grand - Total (for sub - total 1+2+3)						R	<u> </u>			





Closure Costing - Opencast Area			Closure Costs - <u>Scheduled</u>									
ltem nr	ID	Task	Unit Rate Code	Unit	Quantity		Rate		Amount	Notes		
1		Infrastructural Aspects										
2		Not applicable	1.1	na	0.00	R	-	R	-			
3		Sub - Total for infrastructural aspects						R	-			
4												
5		Mining Aspects										
6		Open pit reclamation including final voids and ramps										
7		Pit 8C				_		_		Rehabilitated		
8		Backfill pit void	9.3.1	m ³	0.00	R	15.50		-			
9 10		Replace topsoil on pit area	9.1.2 10.4.3	m³ ha	0.00	R	11.00 4 400.00	R				
10		Establish vegetation on pit area	10.4.3	na	0.00	R	4 400.00	к	-			
		Rip and establish vegetation on stockpile footprint areas and haul roads	10.4.4		0.00	R	5 500 00	R				
11 12			10.4.4	ha	0.00	ĸ	5 500.00	R				
12		Sub - Total for Mining aspects						ĸ	-			
13		General Surface Reclamation				_						
		Not applicable			0.00							
15			1.1	na	0.00	R	-	R				
16 17		Sub - Total for General Surface Reclamation				-		R	-			
17		Water Management				_		_				
						_		-				
19		Not applicable	1.1	na	0.00	R	-	R				
20 21		Sub - Total for Water Management				-		R	-			
21												
22		SUB - TOTAL 1 (for infrastructural and related structures)						R				
23		Post - closure aspects										
24		Surface water quality monitoring	12.1	VĽ	0.00	R	32 000.00	R		Area fully rehabilitated		
25		Groundwater quality monitoring	12.1	yr Vr	0.00	R	60 000.00			Area fully rehabilitated		
2.5		Croandwater quality monitoring	14.4	y i	0.00	IX.	00 000.00	IX.				
26		Reclamation monitoring on reclaimed areas	12.3	ha	0.00	R	2 500.00	R		Area fully rehabilitated		
						1				A second distance in the second se		
27		Care and maintenance of reclaimed areas	12.4	ha	0.00	R	15 500.00	R	-	Area fully rehabilitated		
28		Sub - Total for Post closure aspects				1		R	-			
29		Contingencies for post closure aspects	1.2	sum	1.00	R	-	R	-	Assumed 10 percent for post closure aspects		
30		Sub - Total for Contingencies for post closure aspects				1		R	-			
31		SUB - TOTAL 2						R				
31		(for post - closure aspects)						ĸ	-			
32		Additional allowances										
33		Preliminary and General	1.2	sum	1.00	R	-	R	-	Assume 12 percent of sub - total 1		
34		Contingencies	1.2	sum	1.00	R	-	R	-	Assume 10 percent of sub - total 1		
		SUB - TOTAL 3						_				
35		(for additional allowances)						R	-			
		Grand - Total						_				
36		(for sub - total 1+2+3)						R	-			

