

DMR Master rates 2010 escalated to 2023

No	Description	unit	A	B	C	D	E = A*B*C*D
			Mater Rate 2023	Quantity	Multiplication factor	Weighting Factor 1	Amount
1	<u>Dismantling of processing plant and related structures (Including overland conveyers and power lines)</u>	m ³	R 21.62	1 120 889.53	1.00	1.00	R 24 232 764
2 (A)	<u>Demolition of steel buildings and structures</u>	m ²	R 301.28	19 951.55	1.00	1.00	R 6 011 064
2 (B)	<u>Demolition of reinforced concrete building structures</u>	m ²	R 443.99	36 834.88	1.00	1.00	R 16 354 237
3	<u>Rehabilitation of access roads</u>	m ²	R 53.90	171 284.48	1.00	1.00	R 9 232 704
4 (A)	<u>Demolition and rehabilitation of electrified railway lines</u>	m	R 523.29	-	1.00	1.00	R 0
4 (B)	<u>Demolition and rehabilitation of non-electrified railway lines</u>	m	R 285.43	4 575.00	1.00	1.00	R 1 305 851
5	<u>Demolition of housing or administration facilities</u>	m ²	R 602.57	9 193.06	1.00	1.00	R 5 539 426
6	<u>Opencast rehabilitation including final voids and ramps</u>	ha	R 315 869.86	-	1.00	1.00	R 0
7	<u>Sealing of Shafts, Adits and inclines</u>	m ³	R 161.73	28 520.02	1.00	1.00	R 4 612 560
8 (A)	<u>Rehabilitation of overburden and spoils</u>	ha	R 210 579.92	2.43	1.00	1.00	R 511 709
8 (B)	<u>Rehabilitation of processing waste deposits and evaporation ponds (salt)</u>	ha	R 262 273.48	9.00	1.00	1.00	R 2 360 067
8 (C)	<u>Rehabilitation of processing waste deposits and evaporation ponds (acid and metal)</u>	ha	R 761 766.50	178.00	0.90	1.00	R 122 034 993
9	<u>Rehabilitation of subsided areas</u>	ha	R 176 328.96	-	1.00	1.00	R 0
10	<u>General surface rehabilitation</u>	ha	R 166 814.82	131.09	1.00	1.00	R 21 867 288
11	<u>River Diversions</u>	ha	R 166 814.82	-	1.00	1.00	R 0
12	<u>Fencing</u>	m	R 190.28	21 803.41	1.00	1.00	R 4 148 764
13	<u>Water Management</u>	ha	R 63 427.68	111.09	0.67	1.00	R 4 720 822
14	<u>2 to 3 years maintenance and aftercare</u>	ha	R 22 199.68	111.09	1.00	1.00	R 2 466 100
15 (A)	<u>Specialist Study</u>	Sum	5%	R 225 398 349.23	1.00	1.00	R 11 269 917
Sub Total 1							R 236 668 267
	<u>Preliminary and General Contingency</u>	%	12%	R 236 668 266.69		1.10	R 31 240 211
		%	10%	R 236 668 266.69			R 23 666 827
Sub Total 2							R 291 575 305
	<u>VAT</u>	%	14%	R 291 575 304.56			R 40 820 543
Grand Total							R 332 395 847

DMR Master rates 2010 escalated to 2024

No	Description	unit	A	B	C	D	E = A*B*C*D
			Mater Rate 2024	Quantity	Multiplication factor	Weighting Factor 1	Amount
1	<u>Dismantling of processing plant and related structures (Including overland conveyers and power lines)</u>	m ³	R 23.02	1 120 889.53	1.00	1.00	R 25 807 894
2 (A)	<u>Demolition of steel buildings and structures</u>	m ²	R 320.87	19 951.55	1.00	1.00	R 6 401 783
2 (B)	<u>Demolition of reinforced concrete building structures</u>	m ²	R 472.85	36 834.88	1.00	1.00	R 17 417 262
3	<u>Rehabilitation of access roads</u>	m ²	R 57.41	171 284.48	1.00	1.00	R 9 832 830
4 (A)	<u>Demolition and rehabilitation of electrified railway lines</u>	m	R 557.30	-	1.00	1.00	R 0
4 (B)	<u>Demolition and rehabilitation of non-electrified railway lines</u>	m	R 303.98	4 575.00	1.00	1.00	R 1 390 731
5	<u>Demolition of housing or administration facilities</u>	m ²	R 641.73	9 193.06	1.00	1.00	R 5 899 489
6	<u>Opencast rehabilitation including final voids and ramps</u>	ha	R 336 401.40	-	1.00	1.00	R 0
7	<u>Sealing of Shafts, Adits and inclines</u>	m ³	R 172.24	28 520.02	1.00	1.00	R 4 912 376
8 (A)	<u>Rehabilitation of overburden and spoils</u>	ha	R 224 267.61	2.43	1.00	1.00	R 544 970
8 (B)	<u>Rehabilitation of processing waste deposits and evaporation ponds (salt)</u>	ha	R 279 321.25	9.00	1.00	1.00	R 2 513 471
8 (C)	<u>Rehabilitation of processing waste deposits and evaporation ponds (acid and metal)</u>	ha	R 811 281.32	178.00	0.90	1.00	R 129 967 267
9	<u>Rehabilitation of subsided areas</u>	ha	R 187 790.34	-	1.00	1.00	R 0
10	<u>General surface rehabilitation</u>	ha	R 177 657.79	131.09	1.00	1.00	R 23 288 662
11	<u>River Diversions</u>	ha	R 177 657.79	-	1.00	1.00	R 0
12	<u>Fencing</u>	m	R 202.65	21 803.41	1.00	1.00	R 4 418 434
13	<u>Water Management</u>	ha	R 67 550.48	111.09	0.67	1.00	R 5 027 676
14	<u>2 to 3 years maintenance and aftercare</u>	ha	R 23 642.66	111.09	1.00	1.00	R 2 626 397
15 (A)	<u>Specialist Study</u>	Sum	5%	R 240 049 241.93	1.00	1.00	R 12 002 462
Sub Total 1							R 252 051 704
	<u>Preliminary and General Contingency</u>	%	12%	R 252 051 704.03		1.10	R 33 270 825
		%	10%	R 252 051 704.03			R 25 205 170
Sub Total 2							R 310 527 699
	<u>VAT</u>	%	14%	R 310 527 699.36			R 43 473 878
Grand Total							R 354 001 577

DMR Master rates 2010 escalated to 2025

No	Description	unit	A	B	C	D	E = A*B*C*D
			Mater Rate 2025	Quantity	Multiplication factor	Weighting Factor 1	Amount
1	<u>Dismantling of processing plant and related structures (Including overland conveyers and power lines)</u>	m ³	R 24.52	1 120 889.53	1.00	1.00	R 27 485 407
2 (A)	<u>Demolition of steel buildings and structures</u>	m ²	R 341.72	19 951.55	1.00	1.00	R 6 817 899
2 (B)	<u>Demolition of reinforced concrete building structures</u>	m ²	R 503.58	36 834.88	1.00	1.00	R 18 549 385
3	<u>Rehabilitation of access roads</u>	m ²	R 61.14	171 284.48	1.00	1.00	R 10 471 963
4 (A)	<u>Demolition and rehabilitation of electrified railway lines</u>	m	R 593.53	-	1.00	1.00	R 0
4 (B)	<u>Demolition and rehabilitation of non-electrified railway lines</u>	m	R 323.74	4 575.00	1.00	1.00	R 1 481 129
5	<u>Demolition of housing or administration facilities</u>	m ²	R 683.45	9 193.06	1.00	1.00	R 6 282 956
6	<u>Opencast rehabilitation including final voids and ramps</u>	ha	R 358 267.50	-	1.00	1.00	R 0
7	<u>Sealing of Shafts, Adits and inclines</u>	m ³	R 183.44	28 520.02	1.00	1.00	R 5 231 681
8 (A)	<u>Rehabilitation of overburden and spoils</u>	ha	R 238 845.01	2.43	1.00	1.00	R 580 393
8 (B)	<u>Rehabilitation of processing waste deposits and evaporation ponds (salt)</u>	ha	R 297 477.13	9.00	1.00	1.00	R 2 676 847
8 (C)	<u>Rehabilitation of processing waste deposits and evaporation ponds (acid and metal)</u>	ha	R 864 014.60	178.00	0.90	1.00	R 138 415 139
9	<u>Rehabilitation of subsided areas</u>	ha	R 199 996.71	-	1.00	1.00	R 0
10	<u>General surface rehabilitation</u>	ha	R 189 205.54	131.09	1.00	1.00	R 24 802 425
11	<u>River Diversions</u>	ha	R 189 205.54	-	1.00	1.00	R 0
12	<u>Fencing</u>	m	R 215.82	21 803.41	1.00	1.00	R 4 705 632
13	<u>Water Management</u>	ha	R 71 941.26	111.09	0.67	1.00	R 5 354 475
14	<u>2 to 3 years maintenance and aftercare</u>	ha	R 25 179.43	111.09	1.00	1.00	R 2 797 113
15 (A)	<u>Specialist Study</u>	Sum	5%	R 255 652 442.66	1.00	1.00	R 12 782 622
Sub Total 1							R 268 435 065
	<u>Preliminary and General Contingency</u>	%	12%	R 268 435 064.79		1.10	R 35 433 429
		%	10%	R 268 435 064.79			R 26 843 506
Sub Total 2							R 330 712 000
	<u>VAT</u>	%	14%	R 330 711 999.82			R 46 299 680
Grand Total							R 377 011 680

DMR Master rates 2010 escalated to 2026

No	Description	unit	A	B	C	D	E = A*B*C*D
			Mater Rate 2026	Quantity	Multiplication factor	Weighting Factor 1	Amount
1	<u>Dismantling of processing plant and related structures (Including overland conveyers and power lines)</u>	m ³	R 26.11	1 120 889.53	1.00	1.00	R 29 271 959
2 (A)	<u>Demolition of steel buildings and structures</u>	m ²	R 363.93	19 951.55	1.00	1.00	R 7 261 062
2 (B)	<u>Demolition of reinforced concrete building structures</u>	m ²	R 536.31	36 834.88	1.00	1.00	R 19 755 094
3	<u>Rehabilitation of access roads</u>	m ²	R 65.11	171 284.48	1.00	1.00	R 11 152 641
4 (A)	<u>Demolition and rehabilitation of electrified railway lines</u>	m	R 632.11	-	1.00	1.00	R 0
4 (B)	<u>Demolition and rehabilitation of non-electrified railway lines</u>	m	R 344.79	4 575.00	1.00	1.00	R 1 577 402
5	<u>Demolition of housing or administration facilities</u>	m ²	R 727.87	9 193.06	1.00	1.00	R 6 691 348
6	<u>Opencast rehabilitation including final voids and ramps</u>	ha	R 381 554.88	-	1.00	1.00	R 0
7	<u>Sealing of Shafts, Adits and inclines</u>	m ³	R 195.36	28 520.02	1.00	1.00	R 5 571 740
8 (A)	<u>Rehabilitation of overburden and spoils</u>	ha	R 254 369.93	2.43	1.00	1.00	R 618 119
8 (B)	<u>Rehabilitation of processing waste deposits and evaporation ponds (salt)</u>	ha	R 316 813.15	9.00	1.00	1.00	R 2 850 842
8 (C)	<u>Rehabilitation of processing waste deposits and evaporation ponds (acid and metal)</u>	ha	R 920 175.55	178.00	0.90	1.00	R 147 412 123
9	<u>Rehabilitation of subsided areas</u>	ha	R 212 996.50	-	1.00	1.00	R 0
10	<u>General surface rehabilitation</u>	ha	R 201 503.90	131.09	1.00	1.00	R 26 414 582
11	<u>River Diversions</u>	ha	R 201 503.90	-	1.00	1.00	R 0
12	<u>Fencing</u>	m	R 229.85	21 803.41	1.00	1.00	R 5 011 498
13	<u>Water Management</u>	ha	R 76 617.44	111.09	0.67	1.00	R 5 702 515
14	<u>2 to 3 years maintenance and aftercare</u>	ha	R 26 816.10	111.09	1.00	1.00	R 2 978 925
15 (A)	<u>Specialist Study</u>	Sum	5%	R 272 269 851.43	1.00	1.00	R 13 613 493
Sub Total 1							R 285 883 344
	<u>Preliminary and General Contingency</u>	%	12%	R 285 883 344.00		1.10	R 37 736 601
		%	10%	R 285 883 344.00			R 28 588 334
Sub Total 2							R 352 208 280
	<u>VAT</u>	%	14%	R 352 208 279.81			R 49 309 159
Grand Total							R 401 517 439

DMR Master rates 2010 escalated to 2027

No	Description	unit	A	B	C	D	E = A*B*C*D
			Mater Rate 2027	Quantity	Multiplication factor	Weighting Factor 1	Amount
1	<u>Dismantling of processing plant and related structures (Including overland conveyers and power lines)</u>	m ³	R 27.81	1 120 889.53	1.00	1.00	R 31 174 636
2 (A)	<u>Demolition of steel buildings and structures</u>	m ²	R 387.59	19 951.55	1.00	1.00	R 7 733 031
2 (B)	<u>Demolition of reinforced concrete building structures</u>	m ²	R 571.18	36 834.88	1.00	1.00	R 21 039 176
2 (B).1	Main Shaft Winder House Basement	m ²		1 481.55			
2 (B).2	Service Duct Gooseneck	m ²		61.56			
2 (B).3	Concrete V-Drains	m ²		10 975.37			
2 (B).4	Vent Shaft Kibble Winder House Concrete Structure	m ²		651.44			
2 (B).5	Vent Shaft Stage Winder House Concrete Structure	m ²		450.56			
2 (B).6	Mini Sub Stations	m ²		148.40			
2 (B).7	6.6 Transformer Bays	m ²		330.00			
2 (B).8	Main Shaft Transformer Bays	m ²		318.00			
2 (B).9	Compressor house	m ²		1 200.00			
2 (B).10	No.2 Shaft Men & Material	m ²		900.00			
2 (B).11	Main store	m ²		2 100.00			
2 (B).12	Explosives receiving bay	m ²		750.00			
2 (B).13	Stores	m ²		6 468.00			
2 (B).14	Mine security entrance	m ²		3 500.00			
2 (B).15	Sewer treatment plant	m ²		2 500.00			
3 (B).16	Solar plant (effort less than concrete building thus 25% only)	m ²		5 000.00			
3	<u>Rehabilitation of access roads</u>	m ²	R 69.34	171 284.48	1.00	1.00	R 11 877 563
4 (A)	<u>Demolition and rehabilitation of electrified railway lines</u>	m	R 673.19	-	1.00	1.00	R 0
4 (B)	<u>Demolition and rehabilitation of non-electrified railway lines</u>	m	R 367.20	4 575.00	1.00	1.00	R 1 679 933
5	<u>Demolition of housing or administration facilities</u>	m ²	R 775.18	9 193.06	1.00	1.00	R 7 126 286
6	<u>Opencast rehabilitation including final voids and ramps</u>	ha	R 406 355.95	-	1.00	1.00	R 0
7	<u>Sealing of Shafts, Adits and Inclines</u>	m ³	R 208.06	28 520.02	1.00	1.00	R 5 933 903
8 (A)	<u>Rehabilitation of overburden and spoils</u>	ha	R 270 903.98	2.43	1.00	1.00	R 658 297
8 (B)	<u>Rehabilitation of processing waste deposits and evaporation ponds (salt)</u>	ha	R 337 406.00	9.00	1.00	1.00	R 3 036 147
8 (C)	<u>Rehabilitation of processing waste deposits and evaporation ponds (acid and metal)</u>	ha	R 979 986.96	178.00	0.90	1.00	R 156 993 912
9	<u>Rehabilitation of subsided areas</u>	ha	R 226 841.27		1.00	1.00	R 0
10	<u>General surface rehabilitation</u>	ha	R 214 601.66	131.09	1.00	1.00	R 28 131 530
10.1	Terrace surface area			111.09			
10.2	Solar plant			20.00			
11	<u>River Diversions</u>	ha	R 214 601.66	-	1.00	1.00	R 0
12	<u>Fencing</u>	m	R 244.79	21 803.41	1.00	1.00	R 5 337 245
13	<u>Water Management</u>	ha	R 81 597.58	111.09	0.67	1.00	R 6 073 179
14	<u>2 to 3 years maintenance and aftercare</u>	ha	R 28 559.14	111.09	1.00	1.00	R 3 172 555
15 (A)	<u>Specialist Study</u>	Sum	5%	R 289 967 391.77	1.00	1.00	R 14 498 370
Sub Total 1							R 304 465 761
	<u>Preliminary and General Contingency</u>	%	12%	R 304 465 761.36		1.10	R 40 189 480
		%	10%	R 304 465 761.36			R 30 446 576
Sub Total 2							R 375 101 818
	<u>VAT</u>	%	14%	R 375 101 817.99			R 52 514 255
Grand Total							R 427 616 073

DMR Master rates 2010 escalated to 2028

No	Description	unit	A	B	C	D	E = A*B*C*D
			Mater Rate 2028	Quantity	Multiplication factor	Weighting Factor 1	Amount
1	<u>Dismantling of processing plant and related structures (Including overland conveyers and power lines)</u>	m ³	R 29.62	1 120 889.53	1.00	1.00	R 33 200 987
2 (A)	<u>Demolition of steel buildings and structures</u>	m ²	R 412.78	19 951.55	1.00	1.00	R 8 235 678
2 (B)	<u>Demolition of reinforced concrete building structures</u>	m ²	R 608.30	36 834.88	1.00	1.00	R 22 406 722
3	<u>Rehabilitation of access roads</u>	m ²	R 73.85	171 284.48	1.00	1.00	R 12 649 604
4 (A)	<u>Demolition and rehabilitation of electrified railway lines</u>	m	R 716.95	-	1.00	1.00	R 0
4 (B)	<u>Demolition and rehabilitation of non-electrified railway lines</u>	m	R 391.07	4 575.00	1.00	1.00	R 1 789 129
5	<u>Demolition of housing or administration facilities</u>	m ²	R 825.57	9 193.06	1.00	1.00	R 7 589 494
6	<u>Opencast rehabilitation including final voids and ramps</u>	ha	R 432 769.09	-	1.00	1.00	R 0
7	<u>Sealing of Shafts, Adits and inclines</u>	m ³	R 221.58	28 520.02	1.00	1.00	R 6 319 607
8 (A)	<u>Rehabilitation of overburden and spoils</u>	ha	R 288 512.73	2.43	1.00	1.00	R 701 086
8 (B)	<u>Rehabilitation of processing waste deposits and evaporation ponds (salt)</u>	ha	R 359 337.39	9.00	1.00	1.00	R 3 233 496
8 (C)	<u>Rehabilitation of processing waste deposits and evaporation ponds (acid and metal)</u>	ha	R 1 043 686.12	178.00	0.90	1.00	R 167 198 516
9	<u>Rehabilitation of subsided areas</u>	ha	R 241 585.95	-	1.00	1.00	R 0
10	<u>General surface rehabilitation</u>	ha	R 228 550.76	131.09	1.00	1.00	R 29 960 080
11	<u>River Diversions</u>	ha	R 228 550.76	-	1.00	1.00	R 0
12	<u>Fencing</u>	m	R 260.70	21 803.41	1.00	1.00	R 5 684 166
13	<u>Water Management</u>	ha	R 86 901.42	111.09	0.67	1.00	R 6 467 936
14	<u>2 to 3 years maintenance and aftercare</u>	ha	R 30 415.49	111.09	1.00	1.00	R 3 378 771
15 (A)	<u>Specialist Study</u>	Sum	5%	R 308 815 272.24	1.00	1.00	R 15 440 764
Sub Total 1							R 324 256 036
	<u>Preliminary and General Contingency</u>	%	12%	R 324 256 035.85		1.10	R 42 801 797
		%	10%	R 324 256 035.85			R 32 425 604
Sub Total 2							R 399 483 436
	<u>VAT</u>	%	14%	R 399 483 436.16			R 55 927 681
Grand Total							R 455 411 117

DMR Master rates 2010 escalated to 2029

No	Description	unit	A	B	C	D	E = A*B*C*D
			Mater Rate 2029	Quantity	Multiplication factor	Weighting Factor 1	Amount
1	<u>Dismantling of processing plant and related structures (Including overland conveyers and power lines)</u>	m ³	R 31.55	1 120 889.53	1.00	1.00	R 35 359 052
2 (A)	<u>Demolition of steel buildings and structures</u>	m ²	R 439.61	19 951.55	1.00	1.00	R 8 770 997
2 (B)	<u>Demolition of reinforced concrete building structures</u>	m ²	R 647.84	36 834.88	1.00	1.00	R 23 863 159
3	<u>Rehabilitation of access roads</u>	m ²	R 78.65	171 284.48	1.00	1.00	R 13 471 829
4 (A)	<u>Demolition and rehabilitation of electrified railway lines</u>	m	R 763.55	-	1.00	1.00	R 0
4 (B)	<u>Demolition and rehabilitation of non-electrified railway lines</u>	m	R 416.49	4 575.00	1.00	1.00	R 1 905 422
5	<u>Demolition of housing or administration facilities</u>	m ²	R 879.23	9 193.06	1.00	1.00	R 8 082 811
6	<u>Opencast rehabilitation including final voids and ramps</u>	ha	R 460 899.08	-	1.00	1.00	R 0
7	<u>Sealing of Shafts, Adits and inclines</u>	m ³	R 235.99	28 520.02	1.00	1.00	R 6 730 381
8 (A)	<u>Rehabilitation of overburden and spoils</u>	ha	R 307 266.06	2.43	1.00	1.00	R 746 657
8 (B)	<u>Rehabilitation of processing waste deposits and evaporation ponds (salt)</u>	ha	R 382 694.32	9.00	1.00	1.00	R 3 443 674
8 (C)	<u>Rehabilitation of processing waste deposits and evaporation ponds (acid and metal)</u>	ha	R 1 111 525.71	178.00	0.90	1.00	R 178 066 419
9	<u>Rehabilitation of subsided areas</u>	ha	R 257 289.04	-	1.00	1.00	R 0
10	<u>General surface rehabilitation</u>	ha	R 243 406.56	131.09	1.00	1.00	R 31 907 485
11	<u>River Diversions</u>	ha	R 243 406.56	-	1.00	1.00	R 0
12	<u>Fencing</u>	m	R 277.65	21 803.41	1.00	1.00	R 6 053 637
13	<u>Water Management</u>	ha	R 92 550.01	111.09	0.67	1.00	R 6 888 351
14	<u>2 to 3 years maintenance and aftercare</u>	ha	R 32 392.49	111.09	1.00	1.00	R 3 598 391
15 (A)	<u>Specialist Study</u>	Sum	5%	R 328 888 264.93	1.00	1.00	R 16 444 413
Sub Total 1							R 345 332 678
	<u>Preliminary and General</u>	%	12%	R 345 332 678.18		1.10	R 45 583 914
	<u>Contingency</u>	%	10%	R 345 332 678.18			R 34 533 268
Sub Total 2							R 425 449 860
	<u>VAT</u>	%	14%	R 425 449 859.51			R 59 562 980
Grand Total							R 485 012 840



**Bakubung Platinum Mine
Rehabilitation Cost**

DMR Master Rates 2019 Escalated to 2044 at 6.5% per annum (multiplying factor 4.83)

4.83

No	Description	unit	A	B	C	D	E = A*B*C*D
			Mater Rate 2044	Quantity	Multiplication factor	Weighting Factor 1	Amount
1	<u>Dismantling of processing plant and related structures (Including overland conveyers and power lines)</u>	m ³	R 81.17	1 120 889.53	1.00	1.00	R 90 981 200
2 (A)	<u>Demolition of steel buildings and structures</u>	m ²	R 1 131.16	19 951.55	1.00	1.00	R 22 568 361
2 (B)	<u>Demolition of reinforced concrete building structures</u>	m ²	R 1 666.94	36 834.88	1.00	1.00	R 61 401 501
3	<u>Rehabilitation of access roads</u>	m ²	R 202.38	171 284.48	1.00	1.00	R 34 663 914
4 (A)	<u>Demolition and rehabilitation of electrified railway lines</u>	m	R 1 964.67	-	1.00	1.00	R 0
4 (B)	<u>Demolition and rehabilitation of non-electrified railway lines</u>	m	R 1 071.65	4 575.00	1.00	1.00	R 4 902 779
5	<u>Demolition of housing or administration facilities</u>	m ²	R 2 262.32	9 193.06	1.00	1.00	R 20 797 613
6	<u>Opencast rehabilitation including final voids and ramps</u>	ha	R 1 185 924.09	-	1.00	1.00	R 0
7	<u>Sealing of Shafts, Adits and Inclines</u>	m ³	R 607.21	28 520.02	1.00	1.00	R 17 317 720
8 (A)	<u>Rehabilitation of overburden and spoils</u>	ha	R 790 616.09	2.43	1.00	1.00	R 1 921 197
8 (B)	<u>Rehabilitation of processing waste deposits and evaporation ponds (salt)</u>	ha	R 984 698.04	9.00	1.00	1.00	R 8 860 802
8 (C)	<u>Rehabilitation of processing waste deposits and evaporation ponds (acid and metal)</u>	ha	R 2 860 029.86	178.00	0.90	1.00	R 458 176 783
9	<u>Rehabilitation of subsided areas</u>	ha	R 662 021.88	-	1.00	1.00	R 0
10	<u>General surface rehabilitation</u>	ha	R 626 301.33	131.09	1.00	1.00	R 82 100 088
11	<u>River Diversions</u>	ha	R 626 301.33	-	1.00	1.00	R 0
12	<u>Fencing</u>	m	R 714.40	21 803.41	1.00	1.00	R 15 576 412
13	<u>Water Management</u>	ha	R 238 137.36	111.09	0.67	1.00	R 17 724 188
14	<u>2 to 3 years maintenance and aftercare</u>	ha	R 83 348.05	111.09	1.00	1.00	R 9 258 901
15 (A)	<u>Specialist Study</u>	Sum	5%	R 846 251 459.47	1.00	1.00	R 42 312 573
Sub Total 1							R 888 564 032
	<u>Preliminary and General Contingency</u>	%	12%	R 888 564 032.45		1.10	R 117 290 452
		%	10%	R 888 564 032.45			R 88 856 403
Sub Total 2							R 1 094 710 888
	<u>VAT</u>	%	14%	R 1 094 710 887.98			R 153 259 524
Grand Total							R 1 247 970 412



Bakubung Platinum Mine
Rehabilitation Cost Summary



Revised 24 Feb 2016

DMR Master rates 2010 escalated 6.5% per annum

No	Description	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2044
1	<u>Dismantling of processing plant and related structures (including overland conveyers and power lines)</u>	R 18 836 687	R 20 061 072	R 21 365 042	R 22 753 769	R 24 232 764	R 25 807 894	R 27 485 407	R 29 271 959	R 31 174 636	R 33 200 987	R 35 359 052	R 90 981 200
2 (A)	<u>Demolition of steel buildings and structures</u>	R 4 672 539	R 4 976 254	R 5 299 710	R 5 644 191	R 6 011 064	R 6 401 783	R 6 817 899	R 7 261 062	R 7 733 031	R 8 235 678	R 8 770 997	R 22 568 361
2 (B)	<u>Demolition of reinforced concrete building structures</u>	R 12 712 526	R 13 538 840	R 14 418 865	R 15 356 091	R 16 354 237	R 17 417 262	R 18 549 385	R 19 755 094	R 21 039 176	R 22 406 722	R 23 863 159	R 61 401 501
3	<u>Rehabilitation of access roads</u>	R 7 176 794	R 7 643 285	R 8 140 099	R 8 669 205	R 9 232 704	R 9 832 830	R 10 471 963	R 11 152 641	R 11 877 563	R 12 649 604	R 13 471 829	R 34 663 914
4 (A)	<u>Demolition and rehabilitation of electrified railway lines</u>	R 0	R 0	R 0	R 0	R 0	R 0	R 0	R 0	R 0	R 0	R 0	R 0
4 (B)	<u>Demolition and rehabilitation of non-electrified railway lines</u>	R 1 015 068	R 1 081 048	R 1 151 316	R 1 226 151	R 1 305 851	R 1 390 731	R 1 481 129	R 1 577 402	R 1 679 933	R 1 789 129	R 1 905 422	R 4 902 779
5	<u>Demolition of housing or administration facilities</u>	R 4 305 924	R 4 585 809	R 4 883 887	R 5 201 339	R 5 539 426	R 5 899 489	R 6 282 956	R 6 691 348	R 7 126 286	R 7 589 494	R 8 082 811	R 20 797 613
6	<u>Opencast rehabilitation including final voids and ramps</u>	R 0	R 0	R 0	R 0	R 0	R 0	R 0	R 0	R 0	R 0	R 0	R 0
7	<u>Sealing of Shafts, Adits and Inclines</u>	R 3 585 449	R 3 818 503	R 4 066 706	R 4 331 042	R 4 612 560	R 4 912 376	R 5 231 681	R 5 571 740	R 5 933 903	R 6 319 607	R 6 730 381	R 17 317 720
8 (A)	<u>Rehabilitation of overburden and spoils</u>	R 397 763	R 423 618	R 451 153	R 480 478	R 511 709	R 544 970	R 580 393	R 618 119	R 658 297	R 701 086	R 746 657	R 1 921 197
8 (B)	<u>Rehabilitation of processing waste deposits and evaporation ponds (salt)</u>	R 1 834 535	R 1 953 779	R 2 080 775	R 2 216 025	R 2 360 067	R 2 513 471	R 2 676 847	R 2 850 842	R 3 036 147	R 3 233 496	R 3 443 674	R 8 860 802
8 (C)	<u>Rehabilitation of processing waste deposits and evaporation ponds (acid and metal)</u>	R 94 860 618	R 101 026 558	R 107 593 284	R 114 586 847	R 122 034 993	R 129 967 267	R 138 415 139	R 147 412 123	R 156 993 912	R 167 198 516	R 178 066 419	R 458 176 783
9	<u>Rehabilitation of subsided areas</u>	R 0	R 0	R 0	R 0	R 0	R 0	R 0	R 0	R 0	R 0	R 0	R 0
10	<u>General surface rehabilitation</u>	R 16 997 948	R 18 102 814	R 19 279 497	R 20 532 665	R 21 867 288	R 23 288 662	R 24 802 425	R 26 414 582	R 28 131 530	R 29 960 080	R 31 907 485	R 82 100 088
11	<u>River Diversions</u>	R 0	R 0	R 0	R 0	R 0	R 0	R 0	R 0	R 0	R 0	R 0	R 0
12	<u>Fencing</u>	R 3 224 930	R 3 434 550	R 3 657 796	R 3 895 553	R 4 148 764	R 4 418 434	R 4 705 632	R 5 011 498	R 5 337 245	R 5 684 166	R 6 053 637	R 15 576 412
13	<u>Water Management</u>	R 3 669 604	R 3 908 128	R 4 162 157	R 4 432 697	R 4 720 822	R 5 027 676	R 5 354 475	R 5 702 515	R 6 073 179	R 6 467 936	R 6 888 351	R 17 724 188
14	<u>2 to 3 years maintenance and aftercare</u>	R 1 916 957	R 2 041 559	R 2 174 260	R 2 315 587	R 2 466 100	R 2 626 397	R 2 797 113	R 2 978 925	R 3 172 555	R 3 378 771	R 3 598 391	R 9 258 901
15 (A)	<u>Specialist Study</u>	R 8 760 367	R 9 329 791	R 9 936 227	R 10 582 082	R 11 269 917	R 12 002 462	R 12 782 622	R 13 613 493	R 14 498 370	R 15 440 764	R 16 444 413	R 42 312 573
Sub Total 1		R 183 967 709	R 195 925 610	R 208 660 774	R 222 223 725	R 236 668 267	R 252 051 704	R 268 435 065	R 285 883 344	R 304 465 761	R 324 256 036	R 345 332 678	R 888 564 032
<u>Preliminary and General Contingency</u>		R 24 283 738 R 18 396 771	R 25 862 180 R 19 592 561	R 27 543 222 R 20 866 077	R 29 333 532 R 22 222 372	R 31 240 211 R 23 666 827	R 33 270 825 R 25 205 170	R 35 433 429 R 26 843 506	R 37 736 601 R 28 588 334	R 40 189 480 R 30 446 576	R 42 801 797 R 32 425 604	R 45 583 914 R 34 533 268	R 117 290 452 R 88 856 403
Sub Total 2		R 226 648 217	R 241 380 351	R 257 070 074	R 273 779 629	R 291 575 305	R 310 527 699	R 330 712 000	R 352 208 280	R 375 101 818	R 399 483 436	R 425 449 860	R 1 094 710 888
<u>VAT</u>		R 31 730 750	R 33 793 249	R 35 989 810	R 38 329 148	R 40 820 543	R 43 473 878	R 46 299 680	R 49 309 159	R 52 514 255	R 55 927 681	R 59 562 980	R 153 259 524
Grand Total		R 258 378 967	R 275 173 600	R 293 059 884	R 312 108 777	R 332 395 847	R 354 001 577	R 377 011 680	R 401 517 439	R 427 616 073	R 455 411 117	R 485 012 840	R 1 247 970 412

DMR Master rates 2010 escalated to 2022

No	Description	unit	A	B	C	D	E = A*B*C*D
			Mater Rate 2022	Quantity	Multiplication factor	Weighting Factor 1	Amount
1	<u>Dismantling of processing plant and related structures (Including overland conveyers and power lines)</u>	m ³	R 20.30	1 120 889.53	1.00	1.00	R 22 753 769
2 (A)	<u>Demolition of steel buildings and structures</u>	m ²	R 282.89	19 951.55	1.00	1.00	R 5 644 191
2 (B)	<u>Demolition of reinforced concrete building structures</u>	m ²	R 416.89	36 834.88	1.00	1.00	R 15 356 091
3	<u>Rehabilitation of access roads</u>	m ²	R 50.61	171 284.48	1.00	1.00	R 8 669 205
4 (A)	<u>Demolition and rehabilitation of electrified railway lines</u>	m	R 491.35	-	1.00	1.00	R 0
4 (B)	<u>Demolition and rehabilitation of non-electrified railway lines</u>	m	R 268.01	4 575.00	1.00	1.00	R 1 226 151
5	<u>Demolition of housing or administration facilities</u>	m ²	R 565.79	9 193.06	1.00	1.00	R 5 201 339
6	<u>Opencast rehabilitation including final voids and ramps</u>	ha	R 296 591.42	-	1.00	1.00	R 0
7	<u>Sealing of Shafts, Adits and inclines</u>	m ³	R 151.86	28 520.02	1.00	1.00	R 4 331 042
8 (A)	<u>Rehabilitation of overburden and spoils</u>	ha	R 197 727.62	2.43	1.00	1.00	R 480 478
8 (B)	<u>Rehabilitation of processing waste deposits and evaporation ponds (salt)</u>	ha	R 246 266.17	9.00	1.00	1.00	R 2 216 025
8 (C)	<u>Rehabilitation of processing waste deposits and evaporation ponds (acid and metal)</u>	ha	R 715 273.70	178.00	0.90	1.00	R 114 586 847
9	<u>Rehabilitation of subsided areas</u>	ha	R 165 567.10	-	1.00	1.00	R 0
10	<u>General surface rehabilitation</u>	ha	R 156 633.64	131.09	1.00	1.00	R 20 532 665
11	<u>River Diversions</u>	ha	R 156 633.64	-	1.00	1.00	R 0
12	<u>Fencing</u>	m	R 178.67	21 803.41	1.00	1.00	R 3 895 553
13	<u>Water Management</u>	ha	R 59 556.51	111.09	0.67	1.00	R 4 432 697
14	<u>2 to 3 years maintenance and aftercare</u>	ha	R 20 844.77	111.09	1.00	1.00	R 2 315 587
15 (A)	<u>Specialist Study</u>	Sum	5%	R 211 641 642.47	1.00	1.00	R 10 582 082
Sub Total 1							R 222 223 725
	<u>Preliminary and General Contingency</u>	%	12%	R 222 223 724.59		1.10	R 29 333 532
		%	10%	R 222 223 724.59			R 22 222 372
Sub Total 2							R 273 779 629
	<u>VAT</u>	%	14%	R 273 779 628.70			R 38 329 148
Grand Total							R 312 108 777

DMR Master rates 2010 escalated to 2019

No	Description	unit	A	B	C	D	E = A*B*C*D
			Mater Rate 2019	Quantity	Multiplication factor	Weighting Factor 1	Amount
1	<u>Dismantling of processing plant and related structures (Including overland conveyers and power lines)</u>	m ³	R 16.81	1 120 889.53	1.00	1.00	R 18 836 687
2 (A)	<u>Demolition of steel buildings and structures</u>	m ²	R 234.19	19 951.55	1.00	1.00	R 4 672 539
2 (B)	<u>Demolition of reinforced concrete building structures</u>	m ²	R 345.12	36 834.88	1.00	1.00	R 12 712 526
2 (B).1	Main Shaft Winder House Basement	m ²		1 481.55			
2 (B).2	Service Duct Gooseneck	m ²		61.56			
2 (B).3	Concrete V-Drains	m ²		10 975.37			
2 (B).4	Vent Shaft Kibble Winder House Concrete Structure	m ²		651.44			
2 (B).5	Vent Shaft Stage Winder House Concrete Structure	m ²		450.56			
2 (B).6	Mini Sub Stations	m ²		148.40			
2 (B).7	6.6 Transformer Bays	m ²		330.00			
2 (B).8	Main Shaft Transformer Bays	m ²		318.00			
2 (B).9	Compressor house	m ²		1 200.00			
2 (B).10	No.2 Shaft Men & Material	m ²		900.00			
2 (B).11	Main store	m ²		2 100.00			
2 (B).12	Explosives receiving bay	m ²		750.00			
2 (B).13	Stores	m ²		6 468.00			
2 (B).14	Mine security entrance	m ²		3 500.00			
2 (B).15	Sewer treatment plant	m ²		2 500.00			
3 (B).16	Solar plant (effort less than concrete building thus 25% only)	m ²		5 000.00			
3	<u>Rehabilitation of access roads</u>	m ²	R 41.90	171 284.48	1.00	1.00	R 7 176 794
4 (A)	<u>Demolition and rehabilitation of electrified railway lines</u>	m	R 406.76	-	1.00	1.00	R 0
4 (B)	<u>Demolition and rehabilitation of non-electrified railway lines</u>	m	R 221.87	4 575.00	1.00	1.00	R 1 015 068
5	<u>Demolition of housing or administration facilities</u>	m ²	R 468.39	9 193.06	1.00	1.00	R 4 305 924
6	<u>Opencast rehabilitation including final voids and ramps</u>	ha	R 245 532.94	-	1.00	1.00	R 0
7	<u>Sealing of Shafts, Adits and Inclines</u>	m ³	R 125.72	28 520.02	1.00	1.00	R 3 585 449
7.1	Main Shaft	m ³		3 120.98			
7.2	Main Shaft Sub-bank	m ³		11 140.51			
7.3	Vent Shaft	m ³		4 506.22			
7.4	Vent Shaft Sub-bank	m ³		2 048.25			
7.5	Main Shaft Winder House Basement	m ³		7 704.06			
8 (A)	<u>Rehabilitation of overburden and spoils</u>	ha	R 163 688.63	2.43	1.00	1.00	R 397 763
8 (B)	<u>Rehabilitation of processing waste deposits and evaporation ponds (salt)</u>	ha	R 203 871.23	9.00	1.00	1.00	R 1 834 535
8 (C)	<u>Rehabilitation of processing waste deposits and evaporation ponds (acid and metal)</u>	ha	R 592 138.69	178.00	0.90	1.00	R 94 860 618
8 (C).1	Tailings dam	ha		166.00			
8 (C).2	Tailings pipeline route			12.00			
9	<u>Rehabilitation of subsided areas</u>	ha	R 137 064.57		1.00	1.00	R 0
10	<u>General surface rehabilitation</u>	ha	R 129 669.01	131.09	1.00	1.00	R 16 997 948
10.1	Terrace surface area			111.09			
10.2	Solar plant			20.00			
11	<u>River Diversions</u>	ha	R 129 669.01	-	1.00	1.00	R 0
12	<u>Fencing</u>	m	R 147.91	21 803.41	1.00	1.00	R 3 224 930
13	<u>Water Management</u>	ha	R 49 303.80	111.09	0.67	1.00	R 3 669 604
14	<u>2 to 3 years maintenance and aftercare</u>	ha	R 17 256.32	111.09	1.00	1.00	R 1 916 957
15 (A)	<u>Specialist Study</u>	Sum	5%	R 175 207 341.51	1.00	1.00	R 8 760 367
Sub Total 1							R 183 967 709
	<u>Preliminary and General Contingency</u>	%	12%	R 183 967 708.58		1.10	R 24 283 738
		%	10%	R 183 967 708.58			R 18 396 771
Sub Total 2							R 226 648 217
	VAT	%	14%	R 226 648 216.97			R 31 730 750
Grand Total							R 258 378 967

DMR Master rates 2010 escalated to 2020

No	Description	unit	A	B	C	D	E = A*B*C*D
			Mater Rate 2020	Quantity	Multiplication factor	Weighting Factor 1	Amount
1	<u>Dismantling of processing plant and related structures (Including overland conveyers and power lines)</u>	m ³	R 17.90	1 120 889.53	1.00	1.00	R 20 061 072
2 (A)	<u>Demolition of steel buildings and structures</u>	m ²	R 249.42	19 951.55	1.00	1.00	R 4 976 254
2 (B)	<u>Demolition of reinforced concrete building structures</u>	m ²	R 367.55	36 834.88	1.00	1.00	R 13 538 840
3	<u>Rehabilitation of access roads</u>	m ²	R 44.62	171 284.48	1.00	1.00	R 7 643 285
4 (A)	<u>Demolition and rehabilitation of electrified railway lines</u>	m	R 433.20	-	1.00	1.00	R 0
4 (B)	<u>Demolition and rehabilitation of non-electrified railway lines</u>	m	R 236.29	4 575.00	1.00	1.00	R 1 081 048
5	<u>Demolition of housing or administration facilities</u>	m ²	R 498.83	9 193.06	1.00	1.00	R 4 585 809
6	<u>Opencast rehabilitation including final voids and ramps</u>	ha	R 261 492.58	-	1.00	1.00	R 0
7	<u>Sealing of Shafts, Adits and inclines</u>	m ³	R 133.89	28 520.02	1.00	1.00	R 3 818 503
8 (A)	<u>Rehabilitation of overburden and spoils</u>	ha	R 174 328.39	2.43	1.00	1.00	R 423 618
8 (B)	<u>Rehabilitation of processing waste deposits and evaporation ponds (salt)</u>	ha	R 217 122.86	9.00	1.00	1.00	R 1 953 779
8 (C)	<u>Rehabilitation of processing waste deposits and evaporation ponds (acid and metal)</u>	ha	R 630 627.70	178.00	0.90	1.00	R 101 026 558
9	<u>Rehabilitation of subsided areas</u>	ha	R 145 973.77	-	1.00	1.00	R 0
10	<u>General surface rehabilitation</u>	ha	R 138 097.50	131.09	1.00	1.00	R 18 102 814
11	<u>River Diversions</u>	ha	R 138 097.50	-	1.00	1.00	R 0
12	<u>Fencing</u>	m	R 157.52	21 803.41	1.00	1.00	R 3 434 550
13	<u>Water Management</u>	ha	R 52 508.55	111.09	0.67	1.00	R 3 908 128
14	<u>2 to 3 years maintenance and aftercare</u>	ha	R 18 377.99	111.09	1.00	1.00	R 2 041 559
15 (A)	<u>Specialist Study</u>	Sum	5%	R 186 595 818.70	1.00	1.00	R 9 329 791
Sub Total 1							R 195 925 610
	<u>Preliminary and General Contingency</u>	%	12%	R 195 925 609.64		1.10	R 25 862 180
		%	10%	R 195 925 609.64			R 19 592 561
Sub Total 2							R 241 380 351
	<u>VAT</u>	%	14%	R 241 380 351.08			R 33 793 249
Grand Total							R 275 173 600

DMR Master rates 2010 escalated to 2021

No	Description	unit	A	B	C	D	E = A*B*C*D
			Mater Rate 2021	Quantity	Multiplication factor	Weighting Factor 1	Amount
1	<u>Dismantling of processing plant and related structures (Including overland conveyers and power lines)</u>	m ³	R 19.06	1 120 889.53	1.00	1.00	R 21 365 042
2 (A)	<u>Demolition of steel buildings and structures</u>	m ²	R 265.63	19 951.55	1.00	1.00	R 5 299 710
2 (B)	<u>Demolition of reinforced concrete building structures</u>	m ²	R 391.45	36 834.88	1.00	1.00	R 14 418 865
3	<u>Rehabilitation of access roads</u>	m ²	R 47.52	171 284.48	1.00	1.00	R 8 140 099
4 (A)	<u>Demolition and rehabilitation of electrified railway lines</u>	m	R 461.36	-	1.00	1.00	R 0
4 (B)	<u>Demolition and rehabilitation of non-electrified railway lines</u>	m	R 251.65	4 575.00	1.00	1.00	R 1 151 316
5	<u>Demolition of housing or administration facilities</u>	m ²	R 531.26	9 193.06	1.00	1.00	R 4 883 887
6	<u>Opencast rehabilitation including final voids and ramps</u>	ha	R 278 489.60	-	1.00	1.00	R 0
7	<u>Sealing of Shafts, Adits and inclines</u>	m ³	R 142.59	28 520.02	1.00	1.00	R 4 066 706
8 (A)	<u>Rehabilitation of overburden and spoils</u>	ha	R 185 659.74	2.43	1.00	1.00	R 451 153
8 (B)	<u>Rehabilitation of processing waste deposits and evaporation ponds (salt)</u>	ha	R 231 235.84	9.00	1.00	1.00	R 2 080 775
8 (C)	<u>Rehabilitation of processing waste deposits and evaporation ponds (acid and metal)</u>	ha	R 671 618.50	178.00	0.90	1.00	R 107 593 284
9	<u>Rehabilitation of subsided areas</u>	ha	R 155 462.06	-	1.00	1.00	R 0
10	<u>General surface rehabilitation</u>	ha	R 147 073.84	131.09	1.00	1.00	R 19 279 497
11	<u>River Diversions</u>	ha	R 147 073.84	-	1.00	1.00	R 0
12	<u>Fencing</u>	m	R 167.76	21 803.41	1.00	1.00	R 3 657 796
13	<u>Water Management</u>	ha	R 55 921.60	111.09	0.67	1.00	R 4 162 157
14	<u>2 to 3 years maintenance and aftercare</u>	ha	R 19 572.56	111.09	1.00	1.00	R 2 174 260
15 (A)	<u>Specialist Study</u>	Sum	5%	R 198 724 546.92	1.00	1.00	R 9 936 227
Sub Total 1							R 208 660 774
	<u>Preliminary and General Contingency</u>	%	12%	R 208 660 774.27		1.10	R 27 543 222
		%	10%	R 208 660 774.27			R 20 866 077
Sub Total 2							R 257 070 074
	<u>VAT</u>	%	14%	R 257 070 073.90			R 35 989 810
Grand Total							R 293 059 884