

Cost Summary

SISHEN MINE PREMATURE CLOSURE AND REHABILITATION COST ESTIMATE 2018; INCLUDING SISHEN DMS UPGRADE PROJECT				
No.	Area	PREMATURE COST (NOV 2017)	CHANGES DUE TO SISHEN DMS UPGRADE PROJECT	TOTAL REVISED SISHEN PREMATURE CLOSURE COST; INCLUDING SISHEN DMS UPGRADE PROJECT
1	Rehabilitation / Restoration provisions Total	R 1,406,830,183.00	R 0.00	R 1,406,830,183.00
2	Decommission provisions (Sishen excl SEP)	R 276,323,084.00	R 3,654,324.62	R 279,977,408.62
3	Decommission provisions (Total only SEP)	R 43,179,454.00	R 0.00	R 43,179,454.00
4	Contingencies and consultation fees	R 646,649,155.00	R 1,066,185.36	R 647,715,340.36
	Total	R 2,372,981,876.00	R 4,720,509.98	R 2,377,702,385.98
		Difference		-R4,720,509.98

SISHEN MINE PREMATURE CLOSURE AND REHABILITATION COST ESTIMATE 2018; INCLUDING SISHEN DMS UPGRADE PROJECT				
No.	Area	LOM COST (NOV 2017)	CHANGES DUE TO SISHEN DMS UPGRADE PROJECT	TOTAL REVISED SISHEN LOM CLOSURE COST; INCLUDING SISHEN DMS UPGRADE PROJECT
1	Rehabilitation / Restoration provisions Total	R 18,671,246,895.43	R 0.00	R 18,671,246,895.43
2	Rehabilitation / Restoration provision Total	R 285,007,172.31	R 3,654,324.62	R 288,661,496.93
3	Decommission provisions (Total only SEP)	R 43,179,454.00	R 0.00	R 43,179,454.00
4	Contingencies and consultation fees	R 1,182,120,424.72	R 1,066,185.36	R 1,183,186,610.08
	Total	R 20,181,553,946.45	R 4,720,509.98	R 20,186,274,456.43
		Difference		-R4,720,509.98

Summary (Premature)

AREA	DESCRIPTION	SISHEN MINE	CHANGES DUE TO SISHEN DMS UPGRADE PROJECT	TOTAL REVISED SISHEN PREMATURE CLOSURE COST, INCLUDING SISHEN DMS UPGRADE PROJECT	Notes
		PREMATURE COST (NOV 2017)			
1	Rehabilitation / Restoration provisions Total	R 1,406,830,183	-	R 1,406,830,183	
	PITS AND DUMPS (CURRENT - 24 DEGREES)	R 1,406,830,183	-	R 1,406,830,183	No Change
2	Decommission provisions (Sishen excl SEP)	R 276,323,084	R 3,654,325	R 279,977,409	
	OFFICES AND WORKSHOP AREA	R 76,446,909	-	R 76,446,909	No Change
	MAIN PLANT AREA	R 98,600,147	R 1,740,675	R 100,340,822	DMS section converted to UHDMS. Majority of cost attributed to additional conveyors
	SOUTH PLANT AND WORKSHOP AREA	R 12,366,401	-	R 12,366,401	No Change
	OVERLAND INFRASTRUCTURE	R 46,363,690	-	R 46,363,690	No Change
	OUTSIDE FARMING AREAS	R 293,766	-	R 293,766	No Change
	SESHENG	-	-		
	KATHU (FACULTY TRAINING CENTRE)	R 4,373,432	-	R 4,373,432	No Change
	NEW INFRASTRUCTURE	R 37,878,739	R 1,913,650	R 39,792,389	Include the additional cost of rehabilitation for the new standalone primary crusher
3	Decommission provisions (Total only SEP)	R 43,179,454	-	R 43,179,454	
	SEP PLANT AREA	R 43,179,454	-	R 43,179,454	No Change
4	Contingencies and consultation fees	R 646,649,155	R 1,066,185	R 647,715,340	
	CONTINGENCIES FOR UNFORESEEN	R 86,316,636	-	R 86,316,636	No Change
	ALLOWANCE FOR P&G COSTS	R 271,897,404	-	R 271,897,404	No Change
	ALLOWANCE FOR DETAIL DESIGN FEES	R 62,536,403	R 115,111	R 62,651,514	Increase
	ALLOWANCE FOR PROJECT MANAGEMENT FEES	R 41,690,935	-	R 41,690,935	No Change
	MAINTENANCE COSTS (10-Year Period)	R 100,908,965	R 951,074	R 101,860,039	Increase
	MONITORING COSTS (10-Year Period)	R 83,298,812	-	R 83,298,812	No Change
PREMATURE-CLOSURE COST ESTIMATE		R 2,372,981,876	R 4,720,510	R 2,377,702,386	
Difference				-R 4,720,510	

Summary (Closure - LOM)

AREA	DESCRIPTION	SISHEN MINE	CHANGES DUE TO SISHEN DMS UPGRADE PROJECT	TOTAL REVISED SISHEN PREMATURE CLOSURE COST, INCLUDING SISHEN DMS UPGRADE PROJECT	Notes
		LOM COST (NOV 2017)			
1	Rehabilitation / Restoration provisions Total	R 18,671,246,895	-	R 18,671,246,895	
	PITS AND DUMPS (CURRENT - 24 DEGREES)	R 18,671,246,895	-	R 18,671,246,895	No Change
2	Rehabilitation / Restoration provision Total	R 285,007,172	R 3,654,325	R 288,661,497	
	OFFICES AND WORKSHOP AREA	R 76,446,909	-	R 76,446,909	No Change
	MAIN PLANT AREA	R 98,600,147	R 1,740,675	R 100,340,822	DMS section converted to UHDMS. Majority of cost attributed to additional conveyors
	SOUTH PLANT AND WORKSHOP AREA	R 21,035,625	-	R 21,035,625	No Change
	OVERLAND INFRASTRUCTURE	R 46,363,690	-	R 46,363,690	No Change
	OUTSIDE FARMING AREAS	R 308,630	-	R 308,630	No Change
	SESHENG	-	-		
	KATHU (FACULTY TRAINING CENTRE)	R 4,373,432	-	R 4,373,432	No Change
	NEW INFRASTRUCTURE	R 37,878,739	R 1,913,650	R 39,792,389	Include the additional cost of rehabilitation for the new standalone primary crusher
3	Decommission provisions (Total only SEP)	R 43,179,454	-	R 43,179,454	
	SEP PLANT AREA	R 43,179,454	-	R 43,179,454	No Change
4	Contingencies and consultation fees	R 1,182,120,425	R 1,066,185	R 1,183,186,610	
	CONTINGENCIES FOR UNFORESEEN	R 86,316,636	-	R 86,316,636	No Change
	ALLOWANCE FOR P&G COSTS	R 271,897,404	-	R 271,897,404	No Change
	ALLOWANCE FOR DETAIL DESIGN FEES	R 598,007,673	R 115,111	R 598,122,784	Increase
	ALLOWANCE FOR PROJECT MANAGEMENT FEES	R 41,690,935	-	R 41,690,935	No Change
	MAINTENANCE COSTS (10-Year Period)	R 100,908,965	R 951,074	R 101,860,039	Increase
	MONITORING COSTS (10-Year Period)	R 83,298,812	-	R 83,298,812	No Change
	PREMATURE-CLOSURE COST ESTIMATE	R 20,181,553,946	R 4,720,510	R 20,186,274,456	
	Difference			-R 4,720,510	

E-Overland infrastructure

SISHEN MINE - CLOSURE COST ASSESSMENT (November 2018)													
Area E - Overland infrastructure													
Item	Sishen	Description	Rate	Rate items	Hazardous	Unit	Quantity	Demolition cost		Transport cost			Total
no.	ref.		ref.		(Yes/No)			Base rate	Amount	Distance	Rate/km	Amount	Amount
E3		Conveyors (Excluding plant conveyors)	16.1	Overland conveyor	N	m	281	R 259	R 72,642.40	4.0	R 1.88	R 2,113.23	R 74,755.63
			16.2	Suspended conveyor	N	m	2822	R 529	R 1,492,212.52	4.0	R 2.35	R 26,528.22	R 1,518,740.74
			16.3	Conveyor drive unit	N	No	5	R 29,377	R 146,882.88	4.0	R 2.94	R 58.75	R 146,941.63
									R 1,711,737.79			R 28,700.21	R 1,740,438.00
									R 1,711,974.68			R 28,700.21	R 1,740,674.89

SISHEN MINE - CLOSURE COST ASSESSMENT (November 2018)

Area B - Main Plant Area														
Item	Sishen	Description	Rate	Rate items	Hazardous	Unit	Quantity	Demolition cost		Transport cost			Total	Notes
no.	ref.		ref.		(Yes/No)			Base rate	Amount	Distance	Rate/km	Amount	Amount	
BXX	TBA	In pit crushing plant	2.5	Heavy duty concrete floor	N	m2	0	R 411.27	R 0.00	2.0	R 4.47	R 0.00	R 0.00	Include the additional cost of rehabilitation for the new standalone primary crusher
			2.1	Heavy reinforced concrete	N	m3	500	R 705.04	R 352,518.90	2.0	R 11.16	R 11,163.10	R 363,682.00	
			1.1	Large steel structure	N	ton	365.4	R 998.80	R 364,962.82	2.0	R 11.75	R 8,587.36	-R 485,185.87	
			7	Plant equipment	Varies	ton	300	R 969.70	R 290,909.17	2.0	R 8.31	R 4,987.01	R 84,384.85	
									R 1,059,415.48			R 25,989.19	R 1,085,404.67	
BXX	TBA	In pit crushing workshop	2.5	Heavy duty concrete floor	N	m2	800	R 411.27	R 329,017.64	2.0	R 4.47	R 7,144.38	R 336,162.03	Include the additional cost of rehabilitation for the new standalone primary crusher
			2.4	Light duty concrete floor	N	m2	660	R 129.26	R 85,309.57	2.0	R 2.23	R 2,947.06	R 88,256.63	
			2.7	Heavy column footing	N	No	21	R 2,761.40	R 57,989.36	2.0	R 27.09	R 1,137.58	R 59,126.94	
			2.1	Heavy reinforced concrete	N	m3	57	R 705.04	R 40,187.15	2.0	R 11.16	R 1,272.59	R 41,459.75	
			2.6	Strip footing	N	m	140	R 293.77	R 41,127.21	2.0	R 2.59	R 723.84	R 41,851.04	
			3.3	220mm brick walls	N	m2	980	R 76.38	R 74,851.51	2.0	R 2.82	R 5,527.50	R 80,379.01	
			1.1	Large steel structure	N	ton	34.6	R 998.80	R 34,558.60	2.0	R 11.75	R 813.14	-R 45,942.61	
			5	Cladding	N	m2	3000	R 34.08	R 102,230.48	2.0	R 0.59	R 3,525.19	R 63,453.40	
									R 803,985.36			R 24,259.70	R 828,245.06	
												R 1,913,649.72		