

**CALCULATION OF THE QUANTUM (REAL RATES)**

Applicant:  
Evaluators:

**Free State Department of Community Safety, Roads and Transport**

Ref No.:  
Date:

**FS 30/5/1/1/2/02145 BP  
Dec-23**

No.	Description	Unit	A	B	C	D	E=A*B*C*D	
			Quantity	Master Rate	Multiplication factor	Weighting factor 1	Amount (Rands)	
1	Dismantling of processing plant and related structures (including overland conveyors and powerlines)	m3	0	R 19,14	1	1	R	-
2 (A)	Demolition of steel buildings and structures	m2	0	R 266,67	1	1	R	-
2(B)	Demolition of reinforced concrete buildings and structures	m2	0	R 392,98	1	1	R	-
3	Rehabilitation of access roads	m2	0	R 47,72	1	1	R	-
4 (A)	Demolition and rehabilitation of electrified railway lines	m	0	R 463,16	1	1	R	-
4 (A)	Demolition and rehabilitation of non-electrified railway lines	m	0	R 252,63	1	1	R	-
5	Demolition of housing and/or administration facilities	m2	0	R 533,33	1	1	R	-
6	Opencast rehabilitation including final voids and ramps	ha	0	R 271 438,81	1	1	R	-
7	Sealing of shafts adits and inclines	m3	0	R 143,16	1	1	R	-
8 (A)	Rehabilitation of overburden and spoils	ha	0,01	R 186 386,11	1	1	R	1 863,86
8 (B)	Rehabilitation of processing waste deposits and evaporation ponds (non-polluting potential)	ha	0	R 232 140,53	1	1	R	-
8 (C)	Rehabilitation of processing waste deposits and evaporation ponds (polluting potential)	ha	0	R 674 246,13	1	1	R	-
9	Rehabilitation of subsided areas	ha	0	R 156 070,30	1	1	R	-
10	General surface rehabilitation	ha	0,1	R 147 649,24	1	1	R	14 764,92
11	River diversions	ha	0	R 147 649,24	1	1	R	-
12	Fencing	m	0	R 168,42	1	1	R	-
13	Water management	ha	0	R 56 140,39	1	1	R	-
14	2 to 3 years of maintenance and aftercare	ha	0,1	R 19 649,14	1	1	R	1 964,91
15 (A)	Specialist study	Sum	0	R -	1	1	R	-
15 (B)	Specialist study	Sum	0	R -	1	1	R	-
<b>Sub Total 1</b>							<b>R</b>	<b>18 593,70</b>
1	Preliminary and General	R		2 231,24	<b>weighting factor 2</b>		R	2 231,24
					1			
2	Contingencies	R			1 859,37		R	1 859,37
<b>Subtotal 2</b>							<b>R</b>	<b>22 684,31</b>
<b>VAT (15%)</b>							<b>R</b>	<b>3 402,65</b>
<b>Grand Total</b>							<b>R</b>	<b>26 086,96</b>

According to the Calculation of the Quantum requirements, it is mandatory to carry out continuous rehabilitation. This means that while mining operations are ongoing, rehabilitation measures must be simultaneously implemented. The process starts with mining a small area of 0.1 hectares (1000 square meters). Once mining in this initial area is completed, rehabilitation work begins immediately. As mining progresses beyond this initial 0.1 hectare area, the rehabilitation process will continue in tandem, ensuring that at no point during mining will there be more than 0.1 hectares of land left without rehabilitation.

Fencing will not be required as the sloping of the excavated borrow pit will ensure a 1:2 slope level, therefore, leaving no steep drops.