

Annex A3

Atmospheric Emmissions License Application



the denc

Department:
Environment & Nature Conservation
NORTHERN CAPE PROVINCE
REPUBLIC OF SOUTH AFRICA

Private Bag X6102, Kimberley, 8300, Metlife Towers, T-Floor, Tel: 053 807 7300, Fax: 053 807 7328

REPUBLIC OF SOUTH AFRICA

APPLICATION FORM FOR ATMOSPHERIC EMISSION LICENCE / PROVISIONAL ATMOSPHERIC
EMISSION LICENCE IN TERMS OF CHAPTER 5 OF THE NATIONAL ENVIRONMENTAL
MANAGEMENT: AIR QUALITY ACT, 2004 (ACT NO. 39 OF 2004)

Name of Enterprise: Black Mountain Mining (Pty) Ltd

Declaration of accuracy of information provided:

Application for an atmospheric emission licence / provisional atmospheric emission licence as envisaged in chapter 5 of the National Environmental Management: Air Quality Act, 2004 (Act No. 39 of 2004).

I, Mr Nathan Williams [*delegated by the Accounting Officer*], declare that the information provided in this application or attached to the application is, to the best of my knowledge, in all respects factually true and correct. I am aware that the supply of false or misleading information in the application form is a criminal offence in terms of section 51(1)(f) of the Act.

Signed at _____ on this _____ day of _____

SIGNATURE

Managing Director

CAPACITY OF SIGNATORY

TABLE OF CONTENTS

PART-A

1. TYPE OF APPLICATION
2. ENTERPRISE INFORMATION
3. SITUATION AND EXTENT OF THE PLANT
 - 3.1. Location and extent of the plant
 - 3.2. Description of surrounding land use
4. NATURE OF PROCESS
 - 4.1. Process description
 - 4.2. Listed activity or activities
 - 4.3. Unit process or processes
 - 4.4. Hours of operation
 - 4.5. Graphical process information
5. RAW MATERIALS AND PRODUCTS
 - 5.1. Raw materials used
 - 5.2. Production rates
 - 5.3. Materials used in energy sources
 - 5.4. Sources of atmospheric emission (including all tiers of greenhouse gasses)
6. APPLIANCES AND MEASURES TO PREVENT AIR POLLUTION
 - 6.1. Appliances and control measures
 - 6.2. Start-up, maintenance and shut down conditions
 - 6.3. Routine reporting and record-keeping
7. DISPOSAL OF WASTE AND EFFLUENT ARISING FROM ABATEMENT EQUIPMENT CONTROL TECHNOLOGY

PART-B

Information to be submitted during the environmental impact assessment process

PART-A

IMPORTANT NOTE: PLEASE COMPLETE ALL SECTIONS. KINDLY MARK WITH AN X IN SPACES WHERE APPLICABLE. IF THE SPACE PROVIDED IS INSUFFICIENT, THE REQUIRED INFORMATION MAY BE SUBMITTED IN THE FORM OF A MEMORANDUM. ATTACH REQUIRED MAPS AND SKETCHES. GRAPHICS MUST BE CLEAR, LABELED AND, WHERE APPLICABLE.

1 TYPE OF APPLICATION

<input checked="" type="checkbox"/>	New Application	<input type="checkbox"/>	Transfer
<input type="checkbox"/>	Renewal	<input type="checkbox"/>	Variation/Amendment/Review

Current APPA Permit / Atmospheric Emission Licence Number:	
--	--

2 ENTERPRISE INFORMATION

Enterprise Name	Black Mountain Mining (PTY) Ltd
Trading As	Black Mountain Mining (PTY) Ltd
Type of Enterprise, e.g. Company/Close Corporation/Trust, etc	2005/040096/07
Company/Close Corporation/Trust Registration Number (Registration Numbers if Joint Venture)	Not Applicable
Registered Address	1 Penge Road, Aggeneys 8893
Postal Address	Private Bag X01 Aggeneys 8893
Telephone Number (General)	(054) 983-9256
Fax Number (General)	(054) 983-9353
Industry Type/Nature of Trade	Zinc Mining Industry
Land Use Zoning as per Town Planning Scheme	See attached list (Annex A) of all directly affected properties, divided by project components. Three properties will be directly affected by the proposed mine.
Land Use Rights if outside Town Planning Scheme	The site currently operates an underground mine.

Responsible Person Name or Emission Control Officer (where appointed)	Mr Pieter Venter
Telephone Number	(054) 983-9256
Cell Phone Number	082 851 3091
Fax Number	(054) 983-9353
E-mail Address	pdventer@blackmountain.co.za

After Hours Contact Details	As Above
-----------------------------	----------

3 SITUATION AND EXTENT OF THE PREMISES

3.1 Location and extent of the premises

Physical Address of the Premises	Not Applicable
Description of Site (Erf)	The proposed zinc mine and associated infrastructure will be located approximately 15 km east of Aggeneys, south of the N14 National Road
Coordinates of Approximate Center of Operations	Latitude: 29° 14' 55" South Longitude: 18° 50' 41" East
Extent (km ²)	The total footprint of the mining license is 154.1106 km ²
Elevation Above Mean Sea Level (m)	The elevation of the proposed Gamsberg mine site varies and can reach approximately 1 150 m above mean sea level (ie approximately 220 m above the surrounding landscape)
Province	Northern Cape
Metropolitan/District Municipality	Namakwa District Municipality
Local Municipality	Khai Ma Local Municipality
Designated Priority Area	Not Applicable

3.2 Description of surrounding land use (within 5 km radius)

Provide a description of the surrounding land use within a 5 km radius, specifically noting the names and proximity of residential and commercial areas in relation to the site of the works.

The surrounding land use is primarily comprised of livestock farming. The existing mining town of Aggeneys is located approximately 14 km west of the mining license area.

Attach map(s), satellite image(s) or aerial photograph(s) detailing location of premises in relation to surrounding community.

4 NATURE OF PROCESS

4.1 Process description

Please provide a detailed description of the entire production process including reference to the overall balance sheet of inputs, outputs and emissions at the site of the works.

An EIA process was previously undertaken in 2000 and approval was received for the proposed project in 2001. However, as the validity period of the authorisation has expired, it is the intention of Black Mountain Mining (BMM) to undertake a new EIA process. The proposed project will include the following project components:

- **Establishment of the Gamsberg open pit Zinc Mine with an expected output capacity of approximately 10 million tons per year (beneficiation tonnage). The proposed mine is expected to have a life span of approximately 19 years.**
- **Construction of a Zinc Concentrator Plant with a total processing capacity of 10 million tons per year.**

- In order to manage the waste streams generated from the mining process, BMM intends to construct one tailing dam and one waste rock dump.
- The proposed project is expected to result in the creation of construction and operational phase employment opportunities. In order to house the expected workforce, BMM intends to construct approximately 1000 additional housing in the town of Aggeneys and/or Pofadder.
- To ensure project viability, BMM needs to transport the proposed zinc concentrate from the mine to the Port of Saldanha for exportation to global markets. BMM have confirmed that two transport options will be utilised during the ESIA process, which are as follows:
 - Transport Option 1: Zinc concentrate to be transported via an existing gravel road from the proposed mine to Loop 10 of the existing Sishen - Saldanha railway line. At Loop 10, the concentrate will be loaded and transported by rail via the railway line to Port of Saldanha; or
 - Transport Option 2: Load zinc concentrate onto trucks and transport the zinc concentrate via the existing N14 National Road to the Port of Saldanha.

A summary table of the Project Description is attached as Annex C.

Please refer to Chapter 3 of the ESIA Report, for a more detailed description of all project infrastructure.

The proposed project includes the establishment of the Gamsberg Zinc Mine, Concentrator Plant and associated infrastructure in Northern Cape. The process description related to aspects of the proposed project is as follows:

- Production drilling, blasting and ore transportation: Based on the mine plan, drilling will be carried out for production purposes. The drilled holes will be filled with explosives and blasted to create broken ore. This ore will then be transported to the crusher for further processing.
- Crushing: Run-of-mine will be fed into the primary crusher. The undersize from the crusher will be taken to the Crushed Ore Stock Pile (COSP). Through a reclaim conveyor, the ore will be fed into Semi-Autogenous Grinding (SAG) Mill.
- Milling: The ore is brought down to the required grain size through the process of milling. In this section, there will be a SAG Mill – Ball Mill combination with slurry pumps and cyclone clusters.
- Flotation: Ore in the form of slurry with the required grain size is fed into a set of flotation banks. Lead and silica will be floated and removed prior to the Zinc circuit. Zinc flotation circuit will have 3 stages, namely Rougher, Scavenger and Cleaner. The Zinc, in the form of froth is taken out and sent to a thickener. The tailings component is taken to the tailing thickener.
- De-watering: Concentrate slurry will be taken to the zinc thickener and the tails to the tailing thickener. Water will be recovered and utilized back into the process. Underflow from zinc thickener will be taken to the filter plant for further dewatering to get Concentrate with right quantity of moisture. Through the use of a conveyor, the Concentrate is collected in stockyard.

- **Tailings pump station & tailing dam:** Underflow from tailings thickener will be taken to the tail pump station from where it will be pumped to the tailings dam. In the tailings dam, the percolated water will be collected and pumped back to the plant for re-use.
- **Transportation:** The concentrate, from the stockpile in the plant, shall be transported to Saldanha Bay Port. The concentrate will be transported via an existing gravel road from the proposed mine to Loop 10 and then railed to Saldanha Bay Port via the existing Sishen-Saldanha Railway Line. A second transportation option will include trucking the zinc concentrate from the proposed mine to Saldanha Bay Port, via the N14 and N7 National Road. At the Saldanha Bay Port, the zinc concentrate will be loaded onto a ship and exported.

4.2 Listed activities

List all Listed Activities, as published in terms of section 21 of the National Environmental Management: Air Quality Act, 2004 (Act No. 39 of 2004), proposed or being conducted at the premises in terms of this application:

Category of Listed Activity	Sub-category of the Listed Activity	Description of the Listed Activity
Sub-category 2.2:	Storage and Handling of Petroleum Products (exceeding 500m³)	Petroleum product storage tanks and product transfer facilities, except those used for liquefied petroleum gas.

Despite the repeal of the Atmospheric Pollution Prevention Act, 1965 (Act No. 45 of 1965), list all Scheduled Process(es), as was or were set out in the Second Schedule of the repealed Atmospheric Pollution Prevention Act, 1965, currently conducted at the premises:

APPA Registration Certificate Number	Date of Registration Certificate	Scheduled Process Number	Scheduled Process Description
Not Applicable			

4.3 Unit process

List all unit processes associated with the listed activities in operation at the premises, highlighting unit processes proposed or being conducted in respect of this application:

Unit Process	Function of Unit Process	Batch or Continuous

		Process
Production Drilling	Drilling in the ore body.	Continuous
Blasting	Filling the drilled holes with explosive followed by blasting.	Batch
Ore transportation to Primary Crusher	Using shovels & tripper trucks, broken ore will be transported to the crusher.	Continuous
Crushing	Crushing the ore to the required size.	Continuous
Conveying & ore stocking	By means of conveyors, the ore will be transported from the stockpile to the SAG Mill.	Continuous
Milling	In the SAG Mill & Ball Mill, the crushed ore is brought down to required grain size. It contains a few pumps, piping and cyclone clusters.	Continuous
Flotation	The slurry is fed to the flotation machines, in which the Zinc will be made to float and removed as froth.	Continuous
De-watering	The concentrate and tails in the form of slurry will be passed through thickeners and filters to remove extra water.	Continuous
Tail Pumping	Tailings will be pumped to the tailing dam by means of slurry pumps.	Continuous
Tailings Dam	Tailings will be collected in the dam	Continuous
Concentrate Transportation	Transporting concentrate from stockyard to Saldanha Bay Port by road and the existing Sishen-Saldanha railway line.	Continuous

*Unit process means a single component (equipment) with identifiable inputs and outputs within a process flow. A series of unit processes make up the full manufacturing process, for example, boiler, furnace, distillation column, etc.

Please provide any other unit processes currently being used or to be used at the premises.

Name of the Unit Process	Description of the Unit Process
Not Applicable	

4.4 Hours of operation

Provide the hours of operation of all unit processes associated with the listed activities in operation at the premises:

Unit Process / Plant	Operating Hours (e.g. 07h00 – 17h00)	No. Days Operation per Year
Mine production drilling	24 hours	346 days
Blasting	1 time a day	364 days
Ore transportation	24 hours	364 days
Crushing	0700 – 2400	346 days
Milling	24 hours	346 days
Flotation	24 hours	346 days

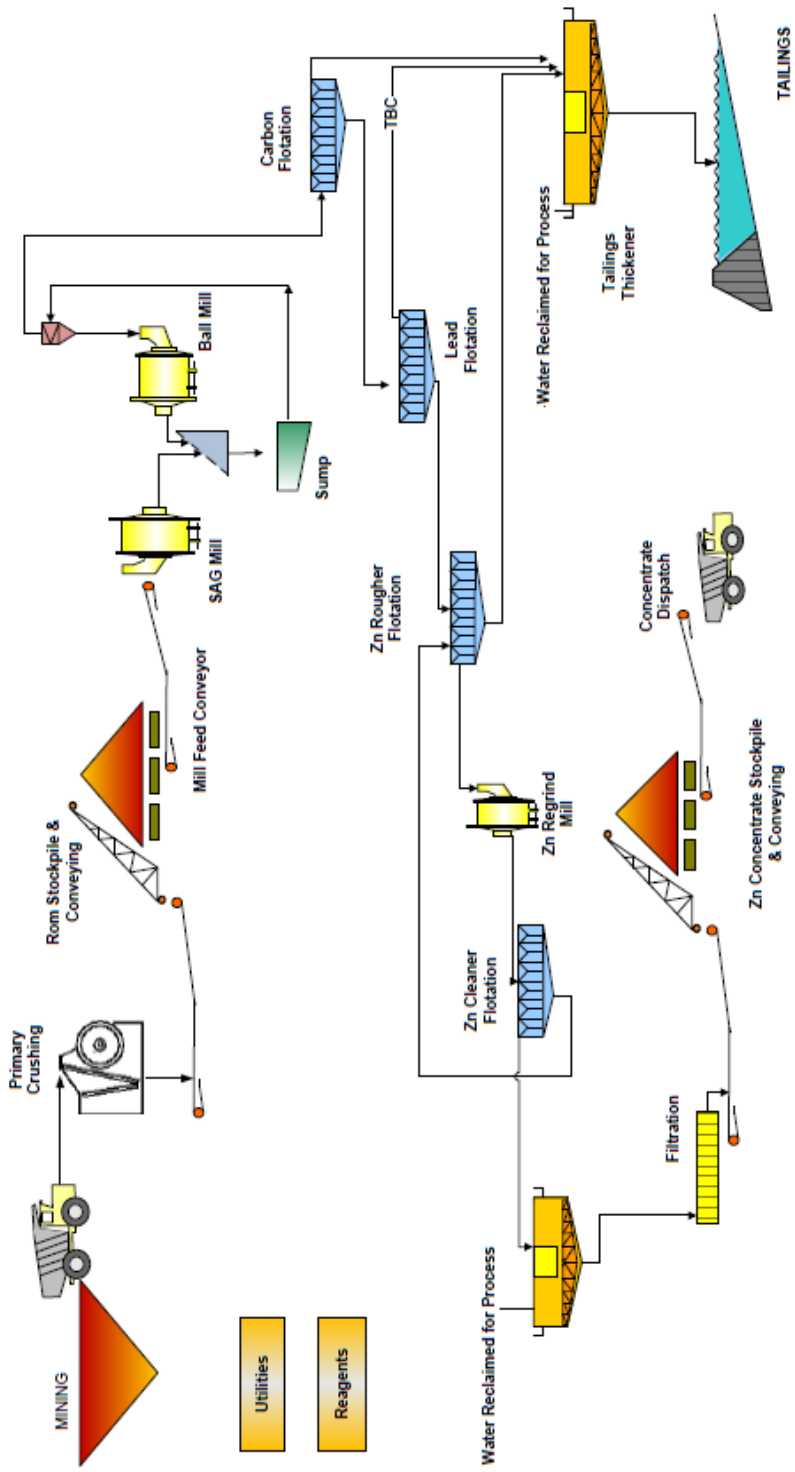
De-watering	24 hours	346 days
Tailings pumping	24 hours	346 days
Concentrate transportation	24 hours	All through the year

4.5 Graphical process information

Attach the following for the entire operation being undertaken at the site of the works:

- Simplified block diagram with the name of each unit process in a block; showing links between all unit processes or blocks.
- Process flow chart(s) clearly indicating inputs, outputs and emissions at the site of works, including points of potential fugitive emissions and emergency releases.
- Site layout diagram (plan view and to scale) indicating location of unit processes, plants, buildings, stacks, stockpiles and roads (include true north arrow and scale).

IMPORTANT NOTE: Indicate clearly on the above graphics the listed activity or activities applied for in this application.



BLOCK FLOW SCHEMATIC

5 RAW MATERIALS AND PRODUCTS

Provide raw material information, production and by-production rates and emissions information.

5.1 Raw materials used

Raw Material Type	Maximum Permitted Consumption Rate (Quantity)	Units (quantity/period)
To be confirmed.		
Non-regulated Raw Materials		
Raw Material Type	Maximum Permitted Consumption Rate (Quantity)	Units (quantity/period)
To be confirmed.		

5.2 Production rates

Product Name	Maximum Production Capacity Permitted (Quantity)	Design Production Capacity (Quantity)	Actual Production Capacity (Quantity)	Units (Quantity/Period)
To be confirmed.				

By-Product Name	Maximum Production Capacity Permitted (Quantity)	Design Production Capacity (Quantity)	Actual Production Capacity (Quantity)	Units (Quantity/Period)
To be confirmed.				

5.4 Sources of atmospheric emission (including all tiers of greenhouse gas)

Provide emissions averaging periods that correspond to the averaging periods as set out in the national ambient air quality standards published under Government Notice No. 1210, Gazette No. 32816 dated 24 December 2009, and/or the minimum averaging periods of the relevant pollutant in relation to its health impact.

5.4.1 Point source parameters

Unique Stack ID	Source Name	Latitude (decimal degrees)	Longitude (decimal degrees)	Height of Release Above Ground (m)	Height Above Nearby Building (m)	Diameter at Stack Tip / Vent Exit (m)	Actual Gas Exit Temperature (°C)	Actual Gas Volumetric Flow (m³/hr)	Actual Gas Exit Velocity (m/s)
	To be confirmed.								

*Point source means a single identifiable source and fixed location of atmospheric pollution, e.g. stack, chimney, etc.

5.4.4 Point source emission estimation information

As per 5.4.1 ID	Basis for Emission Rates
	To be confirmed.

5.4.5 Area and or line source parameters

Unique Area Source ID	Source Name	Source Description	Latitude (decimal degrees) of SW corner	Longitude (decimal degrees) of SW corner	Height of Release Above Ground (m)	Length of Area (m)	Width of Area (m)	Angle of Rotation from True North (°)
	To be confirmed.							

*Area source means air pollution source from a specified area, e.g., pollution from a landfill site, fugitive dust from a process.

*Line source means a moving source of pollutants, e.g., motor vehicles.

6.2 Start-up, maintenance and shut-down conditions

List potential start up, maintenance, shut down conditions and associated responses related to the listed activities, highlight possible releases and responses for the proposed or current listed activity or activities in respect of the current application.

Unit Process	Description of Occurrence of Potential Releases	Pollutants and associated amount of emissions	Briefly Outline Back Up Plan
To be confirmed			

Zinc Mine, Concentrator, Waste Dumps & Tailing Dams

Property 1	
Farm/Erf name(s) & number(s) (including portion)	Bloemhoek 61 Portion 1
SG21 Digit code(s)	C05300000000006100001
Property size(s) (m2)	1798.2187ha
Zoning	Mining
Current landuse	No activity
Development footprint size(s) (m2)	
Landowner	Black Mountain Mining (PTY) Ltd
Contact person	PD Venter
Postal address	Private Bag X01, Aggeneys, 8893
Telephone	(054) 983-9256
Fax	(054) 983-9353
E-mail	pdventer@blackmountain.co.za

Property 2	
Farm/Erf name(s) & number(s) (including portion)	Gams 60 Portion 1
SG21 Digit code(s)	C05300000000006000001
Property size(s) (m2)	3869.8037ha
Zoning	Mining
Current landuse	Mining
Development footprint size(s) (m2)	
Landowner	Black Mountain Mining (PTY) Ltd
Contact person	PD Venter
Postal address	Private Bag X01, Aggeneys, 8893
Telephone	(054) 983-9256
Fax	(054) 983-9353
E-mail	pdventer@blackmountain.co.za

Property 3	
Farm/Erf name(s) & number(s) (including portion)	Aroams 57 RE
SG21 Digit code(s)	C05300000000005700000
Property size(s) (m2)	3837.7102ha
Zoning	Mining
Current landuse	Agriculture (grazing)
Development footprint size(s) (m2)	
Landowner	Black Mountain Mining (PTY) Ltd
Contact person	PD Venter
Postal address	Private Bag X01, Aggeneys, 8893
Telephone	(054) 983-9256
Fax	(054) 983-9353
E-mail	pdventer@blackmountain.co.za

Property 4	
Farm/Erf name(s) & number(s) (including portion)	Gams 60 Portion 4
SG21 Digit code(s)	C0530000000006000004
Property size(s) (m2)	5699.8066ha
Zoning	Farming
Current landuse	Agriculture (grazing)
Development footprint size(s) (m2)	
Landowner	Black Mountain Mining (PTY) Ltd
Contact person	PD Venter
Postal address	Private Bag X01, Aggeneys, 8893
Telephone	(054) 983-9256
Fax	(054) 983-9353
E-mail	pdventer@blackmountain.co.za

Upgrading of Existing Water Pipeline

Property 1	
Farm/Erf name(s) & number(s) (including portion)	C05300000000005700000
SG21 Digit code(s)	
Property size(s) (m2)	3837.7102ha
Zoning	Mining
Current landuse	Agriculture (grazing)
Development footprint size(s) (m2)	
Landowner	Black Mountain Mining (PTY) Ltd
Contact person	PD Venter
Postal address	Private Bag X01, Aggeneys, 8893
Telephone	(054) 983-9256
Fax	(054) 983-9353
E-mail	pdventer@blackmountain.co.za

Property 2	
Farm/Erf name(s) & number(s) (including portion)	Bloemhoek 61 Portion 1
SG21 Digit code(s)	C05300000000006100001
Property size(s) (m2)	1798.2187ha
Zoning	Mining
Current landuse	No activity
Development footprint size(s) (m2)	
Landowner	Black Mountain Mining (PTY) Ltd
Contact person	PD Venter
Postal address	Private Bag X01, Aggeneys, 8893
Telephone	(054) 983-9256
Fax	(054) 983-9353
E-mail	pdventer@blackmountain.co.za

Property 3	
Farm/Erf name(s) & number(s) (including portion)	Gams 60 Portion 1
SG21 Digit code(s)	C05300000000006000001
Property size(s) (m2)	3869.8037ha
Zoning	Mining
Current landuse	Mining
Development footprint size(s) (m2)	
Landowner	Black Mountain Mining (PTY) Ltd
Contact person	PD Venter
Postal address	Private Bag X01, Aggeneys, 8893
Telephone	(054) 983-9256
Fax	(054) 983-9353
E-mail	pdventer@blackmountain.co.za

Property 4	
Farm/Erf name(s) & number(s) (including portion)	Gams 60 Portion 4
SG21 Digit code(s)	C05300000000006000004
Property size(s) (m2)	5699.8066ha
Zoning	Mining
Current landuse	Agriculture (grazing)
Development footprint size(s) (m2)	
Landowner	Black Mountain Mining (PTY) Ltd
Contact person	PD Venter
Postal address	Private Bag X01, Aggeneys, 8893
Telephone	(054) 983-9256
Fax	(054) 983-9353
E-mail	pdventer@blackmountain.co.za

Registered Servitudes

Property 1	
Farm/Erf name(s) & number(s) (including portion)	Aroams 57 RE
Servitude Nr	K345/1981S
Servitude Owner	Pelladrift Waterboard
Landowner	Black Mountain Mining (PTY) Ltd
Contact person	PD Venter
Postal address	Private Bag X01, Aggeneys, 8893
Telephone	(054) 983-9256
Fax	(054) 983-9353
E-mail	pdventer@blackmountain.co.za

New Transmission Line

Property 1	
Farm/Erf name(s) & number(s) (including portion)	C05300000000005700000
SG21 Digit code(s)	
Property size(s) (m2)	3837.7102ha
Zoning	Mining
Current landuse	Agriculture (grazing)
Development footprint size(s) (m2)	
Landowner	Black Mountain Mining (PTY) Ltd
Contact person	PD Venter
Postal address	Private Bag X01, Aggeneys, 8893
Telephone	(054) 983-9256
Fax	(054) 983-9353
E-mail	pdventer@blackmountain.co.za

Property 2	
Farm/Erf name(s) & number(s) (including portion)	Bloemhoek 61 Portion 1
SG21 Digit code(s)	C05300000000006100001
Property size(s) (m2)	1798.2187ha
Zoning	Mining
Current landuse	No activity
Development footprint size(s) (m2)	
Landowner	Black Mountain Mining (PTY) Ltd
Contact person	PD Venter
Postal address	Private Bag X01, Aggeneys, 8893
Telephone	(054) 983-9256
Fax	(054) 983-9353
E-mail	pdventer@blackmountain.co.za

Property 3	
Farm/Erf name(s) & number(s) (including portion)	Gams 60 Portion 1
SG21 Digit code(s)	C05300000000006000001
Property size(s) (m2)	3869.8037ha
Zoning	Mining
Current landuse	Mining
Development footprint size(s) (m2)	
Landowner	Black Mountain Mining (PTY) Ltd
Contact person	PD Venter
Postal address	Private Bag X01, Aggeneys, 8893
Telephone	(054) 983-9256
Fax	(054) 983-9353
E-mail	pdventer@blackmountain.co.za

Property 4	
Farm/Erf name(s) & number(s) (including portion)	Gams 60 Portion 4
SG21 Digit code(s)	C05300000000006000004
Property size(s) (m2)	5699.8066ha
Zoning	Mining
Current landuse	Agriculture (grazing)
Development footprint size(s) (m2)	
Landowner	Black Mountain Mining (PTY) Ltd
Contact person	PD Venter
Postal address	Private Bag X01, Aggeneys, 8893
Telephone	(054) 983-9256
Fax	(054) 983-9353
E-mail	pdventer@blackmountain.co.za

Registered Servitudes

Property 1	
Farm/Erf name(s) & number(s) (including portion)	Aroams 57 RE
Servitude Nr	K1117/2000S
Servitude Owner	ESCOM
Landowner	Black Mountain Mining (PTY) Ltd
Contact person	PD Venter
Postal address	Private Bag X01, Aggeneys, 8893
Telephone	(054) 983-9256
Fax	(054) 983-9353
E-mail	pdventer@blackmountain.co.za

Property 2	
Farm/Erf name(s) & number(s) (including portion)	Gams 60 Portion 4
Servitude Nr	K40/2001
Servitude Owner	ESCOM
Landowner	Black Mountain Mining (PTY) Ltd
Contact person	PD Venter
Postal address	Private Bag X01, Aggeneys, 8893
Telephone	(054) 983-9256
Fax	(054) 983-9353
E-mail	pdventer@blackmountain.co.za

Additional Housing

Property 1	
Farm/Erf name(s) & number(s) (including portion)	Aggeneys 56 RE
SG21 Digit code(s)	C0530000000005600000
Property size(s) (m2)	10316.7325ha
Zoning	Housing
Current landuse	
Development footprint size(s) (m2)	
Landowner	Black Mountain Mining (PTY) Ltd
Contact person	PD Venter
Postal address	Private Bag X01, Aggeneys, 8893
Telephone	(054) 983-9256
Fax	(054) 983-9353
E-mail	pdventer@blackmountain.co.za

Two Transport Options (Options 1 & 2)

Transport Option 1 - Property 1

Farm/Erf name(s) & number(s) (including portion)	Uitkyk 889 Portion 3
SG21 Digit code(s)	C05300000000088900003
Property size(s) (m2)	35.5611ha
Zoning	Rail siding and shed
Current landuse	Railway loading
Development footprint size(s) (m2)	
Landowner	Black Mountain Mining (PTY) Ltd
Contact person	PD Venter
Postal address	Private Bag X01, Aggeneys, 8893
Telephone	(054) 983-9256
Fax	(054) 983-9353
E-mail	pdventer@blackmountain.co.za

Transport Option 1 - Property 2

Farm/Erf name(s) & number(s) (including portion)	F 197 /Ptn 15
SG21 Digit code(s)	C05300000000019700015
Property size(s) (m2)	4.4272ha
Zoning	
Current landuse	Storage of base metal products
Development footprint size(s) (m2)	
Landowner	
Contact person	
Postal address	
Telephone	
Fax	
E-mail	

Proclaimed Roads

Transport Option 1

Farm/Erf name(s) & number(s) (including portion)	Aroams 57 RE
Proclaimed Minor Road	RL(P)5/2002
Servitude Owner	PD Carstens
Landowner	Black Mountain Mining (PTY) Ltd
Contact person	PD Venter
Postal address	Private Bag X01, Aggeneys, 8893
Telephone	(054) 983-9256
Fax	(054) 983-9353
E-mail	pdventer@blackmountain.co.za

Transport Option 2 - Property 1

Farm/Erf name(s) & number(s) (including portion)	N14 National Road - not owned or leased by Vedanta
SG21 Digit code(s)	
Property size(s) (m2)	
Zoning	
Current landuse	
Development footprint size(s) (m2)	
Landowner	
Contact person	
Postal address	
Telephone	
Fax	
E-mail	