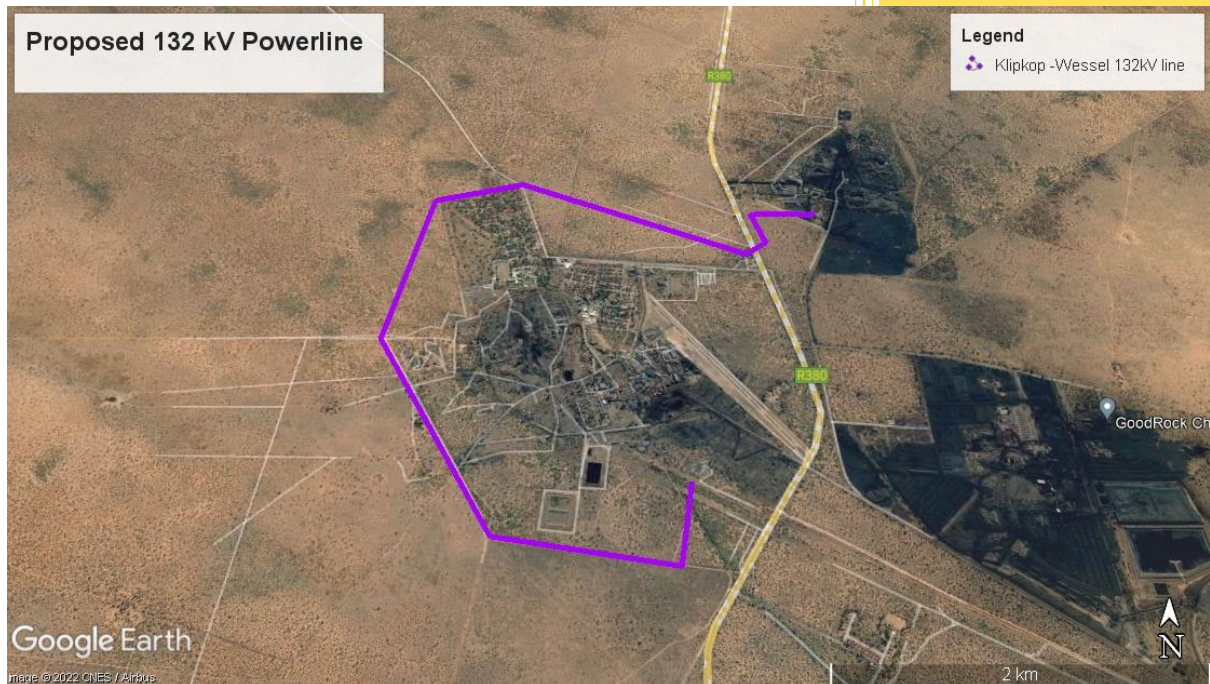




Ref:

Draft Basic Assessment Report

Proposed 132kV powerline from the Klipkop substation to the Wessels substation near Hotazel, Northern Cape



tel: 082 702 0547
email: margueritecronje@gmail.com

January 2023

BASIC ASSESSMENT REPORT



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

Project applicant:	Hotazel Manganese Mines (Pty) Ltd t/a South32 Wessels Mine		
Business reg. no. /ID. no.:	4950244691		
Contact person:	Mr Wonder Sigwebela		
Postal address:	P.O. Box 1, Hotazel, 8490		
Telephone:	053 7422000	Cell:	072 4296545
E-mail:	wonder.sigwebela@south32.net	Fax:	

Prepared by:

Environmental Assessment Practitioner/Firm:	Marguerite Cronje		
Business reg. no. /ID. no.:	8103090071089		
Contact person:	Marguerite Cronje		
Postal address:	P.O. Box 29729, Danhof, 9310		
Telephone:		Cell:	082 7020547
E-mail:	margueritecronje@gmail.com	Fax:	

(For official use only)

File Reference Number:

Application Number:

Date Received:

Basic Assessment Report in terms of the Environmental Impact Assessment Regulations, 2014, promulgated in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended.

Kindly note that:

1. This **basic assessment report** is a standard report that may be required by a competent authority in terms of the EIA Regulations, 2014 and is meant to streamline applications. Please make sure that it is the report used by the particular competent authority for the activity that is being applied for.
2. This report format is current as of **08 December 2014**. It is the responsibility of the applicant to ascertain whether subsequent versions of the form have been published or produced by the competent authority
3. The report must be typed within the spaces provided in the form. The size of the spaces provided is not necessarily indicative of the amount of information to be provided. The report is in the form of a table that can extend itself as each space is filled with typing.
4. Where applicable **tick** the boxes that are applicable in the report.
5. An incomplete report may be returned to the applicant for revision.
6. The use of “not applicable” in the report must be done with circumspection because if it is used in respect of material information that is required by the competent authority for assessing the application, it may result in the rejection of the application as provided for in the regulations.
7. This report must be handed in at offices of the relevant competent authority as determined by each authority.
8. No faxed or e-mailed reports will be accepted.
9. The signature of the EAP on the report must be an original signature.
10. The report must be compiled by an independent environmental assessment practitioner.
11. Unless protected by law, all information in the report will become public information on receipt by the competent authority. Any interested and affected party should be provided with the information contained in this report on request, during any stage of the application process.
12. A competent authority may require that for specified types of activities in defined situations only parts of this report need to be completed.
13. Should a specialist report or report on a specialised process be submitted at any stage for any part of this application, the terms of reference for such report must also be submitted.

SECTION A: ACTIVITY INFORMATION

Has a specialist been consulted to assist with the completion of this section? YES ✓ NO

If YES, please complete the form entitled "Details of specialist and declaration of interest" for the specialist appointed and attach in Appendix I.

1. ACTIVITY DESCRIPTION

a) Describe the project associated with the listed activities applied for

The project consists of the construction of a 132kV powerline between Klipkop substation and Wessels substation (approximately 9km in length), around the Black Rock Mine near Hotazel, Northern Cape.

The proposed 132kV powerline will consist of a double circuit chickadee powerline. Klipkop and Wessels substations are existing substations that will be upgraded with feeder and transformer bays, but these upgradings will not trigger listed activities and are not included in this application for Environmental Authorisation.

The Wessels Mine is one of the largest manganese reserves in South Africa and the Wessels substation is currently supplied by a 66kV powerline, which needs to be replaced by a 132kV powerline. The proposed powerline will ensure a firm supply of electricity to the Wessels mine even when lines are taken out for maintenance, without affecting the supply to the mine.

Environmental Authorisation was obtained in 2017 for a 132kV powerline from the Klipkop substation to Lehating mine by Eskom. The proposed powerline from Klipkop substation to Wessels substation section of the project formed part of the EIA application. South 32 Wessels Mine now needs to take over the construction of the Klipkop – Wessels section of the approved powerline and is therefore undertaking a new EIA application and Basic Assessment process instead of applying for an amendment of the Environmental Authorisation. This is because Eskom may need to use their Environmental Authorisation for the remaining section of powerline to Lehating, when necessary. Eskom will however take over operation of the proposed powerline post construction and route maintenance will be done in accordance with Eskom's in-house environmental management framework.

b) Provide a detailed description of the listed activities associated with the project as applied for

Listed activity as described in GN 734, 735 and 736	Description of project activity
Example: GN 734 Item xx xx): The construction of a bridge where such construction occurs within a watercourse or within 32 metres of a watercourse, measured from the edge of a watercourse, excluding where such construction will occur behind the development setback line.	A bridge measuring 5 m in height and 10m in length, no wider than 8 meters will be built over the Orange river

GN R. 983 of December 2014, as amended (Listing Notice 1), Activity 11: The development of facilities or infrastructure for the transmission and distribution of electricity- Outside urban areas or industrial complexes with a capacity of more than 33 but less than 275 kilovolts.	The project consists of a 132kV powerline of approximately 9km in length around the Black Rock mine, i.e. outside of urban areas.

2. FEASIBLE AND REASONABLE ALTERNATIVES

“**alternatives**”, in relation to a proposed activity, means different means of meeting the general purpose and requirements of the activity, which may include alternatives to—

- (a) the property on which or location where it is proposed to undertake the activity;
- (b) the type of activity to be undertaken;
- (c) the design or layout of the activity;
- (d) the technology to be used in the activity;
- (e) the operational aspects of the activity; and
- (f) the option of not implementing the activity.

Describe alternatives that are considered in this application as required by Appendix 1 (3)(h), Regulation 2014. Alternatives should include a consideration of all possible means by which the purpose and need of the proposed activity (NOT PROJECT) could be accomplished in the specific instance taking account of the interest of the applicant in the activity. The no-go alternative must in all cases be included in the assessment phase as the baseline against which the impacts of the other alternatives are assessed.

The determination of whether site or activity (including different processes, etc.) or both is appropriate needs to be informed by the specific circumstances of the activity and its environment. After receipt of this report the, competent authority may also request the applicant to assess additional alternatives that could possibly accomplish the purpose and need of the proposed activity if it is clear that realistic alternatives have not been considered to a reasonable extent.

Indicate the position of the activity using the latitude and longitude of the centre point of the site for each alternative site. The co-ordinates should be in degrees, minutes and seconds. The projection that must be used in all cases is the WGS84 spheroid in a national or local projection.

a) Site alternatives

Alternative 1 (preferred alternative)		
Description	Lat (DDMMSS)	Long (DDMMSS)
Alternative 2		
Description	Lat (DDMMSS)	Long (DDMMSS)
Alternative 3		
Description	Lat (DDMMSS)	Long (DDMMSS)

BASIC ASSESSMENT REPORT

In the case of linear activities:

Alternative:	Latitude (S):	Longitude (E):
Alternative S1 (preferred)		
• Starting point of the activity	27° 6' 57.37" S	22° 51' 13.03" E
• Middle/Additional point of the activity	27° 6' 48.89" S	22° 49' 55.74" E
• End point of the activity	27° 8' 14.40" S	22° 50' 38.99" E
Alternative S2 (if any)		
• Starting point of the activity		
• Middle/Additional point of the activity		
• End point of the activity		
Alternative S3 (if any)		
• Starting point of the activity		
• Middle/Additional point of the activity		
• End point of the activity		

For route alternatives that are longer than 500m, please provide an addendum with co-ordinates taken every 250 meters along the route for each alternative alignment.

In the case of an area being under application, please provide the co-ordinates of the corners of the site as indicated on the lay-out map provided in Appendix A of this form.

b) Lay-out alternatives

Alternative 1 (preferred alternative)		
Description	Lat (DDMMSS)	Long (DDMMSS)
Refer to the powerline route in Appendix A.		
Alternative 2		
Description	Lat (DDMMSS)	Long (DDMMSS)
Alternative 3		
Description	Lat (DDMMSS)	Long (DDMMSS)

c) Technology alternatives

Alternative 1 (preferred alternative)
The proposed 132kV powerline will consist of a double circuit chickadee powerline.
Alternative 2
Alternative 3

d) Other alternatives (e.g. scheduling, demand, input, scale and design alternatives)

Alternative 1 (preferred alternative)
Refer to Appendix C for the design illustration of the proposed powerline.
Alternative 2
Alternative 3

e) No-go alternative

The no-go alternative involves not constructing the 132kV powerline. This will result in the Wessels mine functioning as is, but electricity supply will be interrupted during maintenance work on the current supply of electricity. This will negatively the productivity of the mine.

Paragraphs 3 – 13 below should be completed for each alternative.

3. PHYSICAL SIZE OF THE ACTIVITY

a) Indicate the physical size of the preferred activity/technology as well as alternative activities/technologies (footprints):

Alternative:

- Alternative A1¹ (preferred activity alternative)
- Alternative A2 (if any)
- Alternative A3 (if any)

Size of the activity:

	m ²
	m ²
	m ²

or, for linear activities:

Alternative:

- Alternative A1 (preferred activity alternative)
- Alternative A2 (if any)
- Alternative A3 (if any)

Length of the activity:

	± 8 250 m
	m
	m

b) Indicate the size of the alternative sites or servitudes (within which the above footprints will occur):

Alternative:

- Alternative A1 (preferred activity alternative)
- Alternative A2 (if any)
- Alternative A3 (if any)

Size of the site/servitude:

	264 000 m² (32m wide)
	m ²
	m ²

¹ "Alternative A.." refer to activity, process, technology or other alternatives.

4. SITE ACCESS

Does ready access to the site exist?

If NO, what is the distance over which a new access road will be built

YES ✓ &	NO ✓
N/A	m

Describe the type of access road planned:

N/A

Include the position of the access road on the site plan and required map, as well as an indication of the road in relation to the site.

5. LOCALITY MAP

An A3 locality map must be attached to the back of this document, as Appendix A. The scale of the locality map must be relevant to the size of the development (at least 1:50 000. For linear activities of more than 25 kilometres, a smaller scale e.g. 1:250 000 can be used. The scale must be indicated on the map.). The map must indicate the following:

- an accurate indication of the project site position as well as the positions of the alternative sites, if any;
- indication of all the alternatives identified;
- closest town(s);
- road access from all major roads in the area;
- road names or numbers of all major roads as well as the roads that provide access to the site(s);
- all roads within a 1km radius of the site or alternative sites; and
- a north arrow;
- a legend; and
- locality GPS co-ordinates (Indicate the position of the activity using the latitude and longitude of the centre point of the site for each alternative site. The co-ordinates should be in degrees and decimal minutes. The minutes should have at least three decimals to ensure adequate accuracy. The projection that must be used in all cases is the WGS84 spheroid in a national or local projection).

6. LAYOUT/ROUTE PLAN

A detailed site or route plan(s) must be prepared for each alternative site or alternative activity. It must be attached as Appendix A to this document.

The site or route plans must indicate the following:

- the property boundaries and numbers of all the properties within 50 metres of the site;
- the current land use as well as the land use zoning of the site;
- the current land use as well as the land use zoning each of the properties adjoining the site or sites;
- the exact position of each listed activity applied for (including alternatives);
- servitude(s) indicating the purpose of the servitude;
- a legend; and
- a north arrow.

7. SENSITIVITY MAP

The layout/route plan as indicated above must be overlain with a sensitivity map that indicates all the sensitive areas associated with the site, including, but not limited to:

- watercourses;
- the 1:100 year flood line (where available or where it is required by DWS);
- ridges;
- cultural and historical features;
- areas with indigenous vegetation (even if it is degraded or infested with alien species); and
- critical biodiversity areas.

The sensitivity map must also cover areas within 100m of the site and must be attached in Appendix A.

8. SITE PHOTOGRAPHS

Colour photographs from the centre of the site must be taken in at least the eight major compass directions with a description of each photograph. Photographs must be attached under Appendix B to this report. It must be supplemented with additional photographs of relevant features on the site, if applicable.

9. FACILITY ILLUSTRATION

A detailed illustration of the activity must be provided at a scale of at least 1:200 as Appendix C for activities that include structures. The illustrations must be to scale and must represent a realistic image of the planned activity. The illustration must give a representative view of the activity.

10. ACTIVITY MOTIVATION

Motivate and explain the need and desirability of the activity (including demand for the activity):

1. Is the activity permitted in terms of the property's existing land use rights?	YES✓	NO	Please explain
A change of land use is not required for the construction of the powerline. A servitude will however need to be registered.			
2. Will the activity be in line with the following?			
(a) Provincial Spatial Development Framework (PSDF)	YES	NO	Please explain
N/A			
(b) Urban edge / Edge of Built environment for the area	YES	NO✓	Please explain
The proposed powerline is outside the urban edge of Hotazel.			

BASIC ASSESSMENT REPORT

(c) Integrated Development Plan (IDP) and Spatial Development Framework (SDF) of the Local Municipality (e.g. would the approval of this application compromise the integrity of the existing approved and credible municipal IDP and SDF?).	YES	NO	Please explain
The IDP of the Joe Morolong Local Municipality was not available and their website down at the time of BAR being compiled. Although the proposed powerline most likely does not fall within their priority projects, it is not expected to compromise any IDP goals.			
(d) Approved Structure Plan of the Municipality	YES	NO✓	Please explain
The project will not contribute towards Municipal infrastructure.			
(e) An Environmental Management Framework (EMF) adopted by the Department (e.g. Would the approval of this application compromise the integrity of the existing environmental management priorities for the area and if so, can it be justified in terms of sustainability considerations?)	YES	NO✓	Please explain
The project is not expected to compromise any environmental management priorities in the area.			
(f) Any other Plans (e.g. Guide Plan)	YES	NO	Please explain
N/A			
3. Is the land use (associated with the activity being applied for) considered within the timeframe intended by the existing approved SDF agreed to by the relevant environmental authority (i.e. is the proposed development in line with the projects and programmes identified as priorities within the credible IDP)?	YES	NO	Please explain
The proposed powerline should not compromise any current land uses.			
4. Does the community/area need the activity and the associated land use concerned (is it a societal priority)? (This refers to the strategic as well as local level (e.g. development is a national priority, but within a specific local context it could be inappropriate.)	YES✓	NO	Please explain
The Wessels Mine requires the powerline to provide a firm supply of electricity to the mine. The community benefit indirectly by employment through the mine.			
5. Are the necessary services with adequate capacity currently available (at the time of application), or must additional capacity be created to cater for the development? (Confirmation by the relevant Municipality in this regard must be attached to the final Basic Assessment Report as Appendix I.)	YES	NO	Please explain
N/A, activity involves electrical infrastructure.			

BASIC ASSESSMENT REPORT

<p>6. Is this development provided for in the infrastructure planning of the municipality, and if not what will the implication be on the infrastructure planning of the municipality (priority and placement of services and opportunity costs)? (Comment by the relevant Municipality in this regard must be attached to the final Basic Assessment Report as Appendix I.)</p>	<p>YES</p>	<p>NO✓</p>	<p>Please explain</p>
<p>N/A</p>			
<p>7. Is this project part of a national programme to address an issue of national concern or importance?</p>	<p>YES</p>	<p>NO✓</p>	<p>Please explain</p>
<p>N/A</p>			
<p>8. Do location factors favour this land use (associated with the activity applied for) at this place? (This relates to the contextualisation of the proposed land use on this site within its broader context.)</p>	<p>YES✓</p>	<p>NO</p>	<p>Please explain</p>
<p>The powerline needs to be positioned from the Klipkop substation to the Wessels substation at Wessels Mine.</p>			
<p>9. Is the development the best practicable environmental option for this land/site?</p>	<p>YES✓</p>	<p>NO</p>	<p>Please explain</p>
<p>The construction of a powerline will not compromise any future development in the area / on site.</p>			
<p>10. Will the benefits of the proposed land use/development outweigh the negative impacts of it?</p>	<p>YES✓</p>	<p>NO</p>	<p>Please explain</p>
<p></p>			
<p>11. Will the proposed land use/development set a precedent for similar activities in the area (local municipality)?</p>	<p>YES</p>	<p>NO✓</p>	<p>Please explain</p>
<p></p>			
<p>12. Will any person's rights be negatively affected by the proposed activity/ies?</p>	<p>YES</p>	<p>NO✓</p>	<p>Please explain</p>
<p></p>			
<p>13. Will the proposed activity/ies compromise the "urban edge" as defined by the local municipality?</p>	<p>YES</p>	<p>NO✓</p>	<p>Please explain</p>
<p></p>			
<p>14. Will the proposed activity/ies contribute to any of the 17 Strategic Integrated Projects (SIPS)?</p>	<p>YES✓</p>	<p>NO</p>	<p>Please explain</p>
<p>SIP 10 – Expand electricity distribution for economic development.</p>			
<p>15. What will the benefits be to society in general and to the local communities?</p>	<p>Please explain</p>		
<p>Indirectly through the economic development created by mining.</p>			
<p>16. Any other need and desirability considerations related to the proposed activity?</p>	<p>Please explain</p>		
<p>The proposed 132kV powerline is required to provide a firm supply of electricity to the Wessels Mine, thereby allowing maintenance to be done on other lines without affecting the supply to the mine.</p>			

17. How does the project fit into the National Development Plan for 2030?	Please explain
The project falls within the NDP 2030 goals by contributing indirectly to economic growth, higher investment and greater labour absorption.	
18. Please describe how the general objectives of Integrated Environmental Management as set out in section 23 of NEMA have been taken into account.	
The project has, through the Basic Assessment Process, identified, predicted and evaluated actual and potential impacts on the environment. Public participation has also taken place and best suited modes of environmental management have been employed as far as possible.	
19. Please describe how the principles of environmental management as set out in section 2 of NEMA have been taken into account.	
NEMA Section 2 (2) states that environmental management must place people and their needs at the forefront of its concern. Although the proposed powerline may have impacts on the environment, although assessed to be minimal, sustainable development is the main aim and it would be safe to say that the factors applicable to sustainable development, namely (4)(a)(ii), (iii), (iv) and (viii) of NEMA Section 2 are most relevant to the proposed development and the EIA process followed. Social, economic and environmental impacts have been considered and evaluated allowing the Department to make an informed decision.	

11. APPLICABLE LEGISLATION, POLICIES AND/OR GUIDELINES

List all legislation, policies and/or guidelines of any sphere of government that are applicable to the application as contemplated in the EIA regulations, if applicable:

Title of legislation, policy or guideline	Applicability to the project	Administering authority	Date
National Environmental Management Act (Act 107 of 1998)	Legislation requiring Environmental Authorisation to be obtained for proposed development.	DENC	1998
National Heritage Resources Act (Act 25 of 1999)	A phase 1 Heritage Impact Assessment was undertaken to identify whether there are any heritage sites or occurrences on site.	SAHRA	1999
National Forests Act (Act 84 of 1998)	Protected tree species have been identified that may need to be removed.	DEFF	1998
Northern Cape Nature Conservation Act (Act 9 of 2009)	Protected geophyte plant species have been identified that may need to be removed.	DENC	2009

12. WASTE, EFFLUENT, EMISSION AND NOISE MANAGEMENT

a) Solid waste management

Will the activity produce solid construction waste during the construction/initiation phase?

YES✓	NO
------	----

If YES, what estimated quantity will be produced per month?

Unknown m ³	
------------------------	--

How will the construction solid waste be disposed of (describe)?

Construction waste and general waste generated during the construction phase will be removed from site by the Contractor.

Where will the construction solid waste be disposed of (describe)?

According to the South African Waste Information System (sawic.environment.gov.za), there are permitted waste disposal sites at mines and within towns at Hotazel, Kathu and Kuruman. The Contractor, once appointed, will need to provide details on the site to be used for waste disposal before construction commences.

Will the activity produce solid waste during its operational phase?

YES	NO✓
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If YES, what estimated quantity will be produced per month?

m ³	
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How will the solid waste be disposed of (describe)?

If the solid waste will be disposed of into a municipal waste stream, indicate which registered landfill site will be used.

Where will the solid waste be disposed of if it does not feed into a municipal waste stream (describe)?

If the solid waste (construction or operational phases) will not be disposed of in a registered landfill site or be taken up in a municipal waste stream, then the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

Can any part of the solid waste be classified as hazardous in terms of the NEM:WA?

YES	NO
-----	----

If YES, inform the competent authority and request a change to an application for scoping and EIA. An application for a waste permit in terms of the NEM:WA must also be submitted with this application.

Is the activity that is being applied for a solid waste handling or treatment facility?

YES	NO
-----	----

If YES, then the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA. An application for a waste permit in terms of the NEM:WA must also be submitted with this application.

b) Liquid effluent

Will the activity produce effluent, other than normal sewage, that will be disposed of in a municipal sewage system?

YES	NO✓
-----	-----

If YES, what estimated quantity will be produced per month?

m ³	
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Will the activity produce any effluent that will be treated and/or disposed of on site?

YES	NO
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BASIC ASSESSMENT REPORT

If YES, the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

Will the activity produce effluent that will be treated and/or disposed of at another facility?

YES	NO
-----	----

If YES, provide the particulars of the facility:

Facility name:	N/A		
Contact person:			
Postal address:			
Postal code:			
Telephone:		Cell:	
E-mail:		Fax:	

Describe the measures that will be taken to ensure the optimal reuse or recycling of waste water, if any:

N/A

c) Emissions into the atmosphere

Will the activity release emissions into the atmosphere other than exhaust emissions and dust associated with construction phase activities?

YES	NO ✓
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If YES, is it controlled by any legislation of any sphere of government?

YES	NO
-----	----

If YES, the applicant must consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

If NO, describe the emissions in terms of type and concentration:

N/A

d) Waste permit

Will any aspect of the activity produce waste that will require a waste permit in terms of the NEM:WA?

YES	NO ✓
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If YES, please submit evidence that an application for a waste permit has been submitted to the competent authority

e) Generation of noise

Will the activity generate noise?

YES ✓	NO
-------	----

If YES, is it controlled by any legislation of any sphere of government?

YES	NO
-----	----

Describe the noise in terms of type and level:

<p>Noise is anticipated during the construction phase through construction vehicles and activities.</p> <p>No noise will be produced during the operational phase of the proposed powerline.</p>
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13. WATER USE

Please indicate the source(s) of water that will be used for the activity by ticking the appropriate box(es):

Municipal	Water board	Groundwater	River, stream, dam or lake	Other	The activity will not use water ✓
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If water is to be extracted from groundwater, river, stream, dam, lake or any other natural feature, please indicate the volume that will be extracted per month:

Does the activity require a water use authorisation (general authorisation or water use license) from the Department of Water Affairs?

If YES, please provide proof that the application has been submitted to the Department of Water Affairs.

litres	
YES	NO

14. ENERGY EFFICIENCY

Describe the design measures, if any, which have been taken to ensure that the activity is energy efficient:

None.

Describe how alternative energy sources have been taken into account or been built into the design of the activity, if any:

Not applicable for the powerline itself as the project entails the transmission of electricity. Eskom does however have numerous renewable energy projects for the generation of electricity where a climate change and sustainable development framework is in place.

SECTION B: SITE/AREA/PROPERTY DESCRIPTION

Important notes:

- For linear activities (pipelines, etc) as well as activities that cover very large sites, it may be necessary to complete this section for each part of the site that has a significantly different environment. In such cases please complete copies of Section B and indicate the area, which is covered by each copy No. on the Site Plan.

Section B Copy No. (e.g. A):

- Paragraphs 1 - 6 below must be completed for each alternative.

3. Has a specialist been consulted to assist with the completion of this section? YES NO

If YES, please complete the form entitled "Details of specialist and declaration of interest" for each specialist thus appointed and attach it in Appendix I. All specialist reports must be contained in Appendix D.

Property description/physical address:

Province	Northern Cape
District Municipality	John Taolo Gaetsewe District Municipality
Local Municipality	Joe Morolong Local Municipality
Ward Number(s)	4
Farm name and number	Portion 9 of Farm N'Chwaning 267 Remainder of Farm N'Chwaning 267 Portion 1 of Farm N'Chwaning 267 Portion 1 of Farm Belgravia 264 Portion 1 of Farm Santoy 230 Remainder of Farm Santoy 230 Remainder of Farm Wessels 227
Portion number	See above.
SG Code	C0410000000026700009 C0410000000026700000 C0410000000026700001 C0410000000026400001 C0410000000023000001 C0410000000023000000 C0410000000022700000

Where a large number of properties are involved (e.g. linear activities), please attach a full list to this application including the same information as indicated above.

Current land-use zoning as per local municipality IDP/records:

Agriculture & Mining

In instances where there is more than one current land-use zoning, please attach a list of current land use zonings that also indicate which portions each use pertains to, to this application.

BASIC ASSESSMENT REPORT

Is a change of land-use or a consent use application required?

YES	NO ✓
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1. GRADIENT OF THE SITE

Indicate the general gradient of the site.

Alternative S1:

Flat ✓	1:50 – 1:20	1:20 – 1:15	1:15 – 1:10	1:10 – 1:7,5	1:7,5 – 1:5	Steeper than 1:5
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Alternative S2 (if any):

Flat	1:50 – 1:20	1:20 – 1:15	1:15 – 1:10	1:10 – 1:7,5	1:7,5 – 1:5	Steeper than 1:5
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Alternative S3 (if any):

Flat	1:50 – 1:20	1:20 – 1:15	1:15 – 1:10	1:10 – 1:7,5	1:7,5 – 1:5	Steeper than 1:5
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2. LOCATION IN LANDSCAPE

Indicate the landform(s) that best describes the site:

2.1 Ridgeline	<input type="checkbox"/>	2.4 Closed valley	<input type="checkbox"/>	2.7 Undulating plain / low hills	<input type="checkbox"/>
2.2 Plateau	<input type="checkbox"/>	2.5 Open valley	<input type="checkbox"/>	2.8 Dune	<input type="checkbox"/>
2.3 Side slope of hill/mountain	<input type="checkbox"/>	2.6 Plain	<input checked="" type="checkbox"/>	2.9 Seafront	<input type="checkbox"/>
2.10 At sea	<input type="checkbox"/>				

3. GROUNDWATER, SOIL AND GEOLOGICAL STABILITY OF THE SITE

Is the site(s) located on any of the following?

	Alternative S1:		Alternative S2 (if any):		Alternative S3 (if any):	
Shallow water table (less than 1.5m deep)	YES	NO ✓	YES	NO	YES	NO
Dolomite, sinkhole or doline areas	YES	NO ✓	YES	NO	YES	NO
Seasonally wet soils (often close to water bodies)	YES	NO ✓	YES	NO	YES	NO
Unstable rocky slopes or steep slopes with loose soil	YES	NO ✓	YES	NO	YES	NO
Dispersive soils (soils that dissolve in water)	YES	NO ✓	YES	NO	YES	NO
Soils with high clay content (clay fraction more than 40%)	YES	NO ✓	YES	NO	YES	NO
Any other unstable soil or geological feature	YES	NO ✓	YES	NO	YES	NO
An area sensitive to erosion	YES	NO ✓	YES	NO	YES	NO

If you are unsure about any of the above or if you are concerned that any of the above aspects may be an issue of concern in the application, an appropriate specialist should be appointed to assist in the completion of this section. Information in respect of the above will often be available as part of the project

information or at the planning sections of local authorities. Where it exists, the 1:50 000 scale Regional Geotechnical Maps prepared by the Council for Geo Science may also be consulted.

4. GROUND COVER

Indicate the types of groundcover present on the site. The location of all identified rare or endangered species or other elements should be accurately indicated on the site plan(s).

Natural veld - good condition ^E	Natural veld with scattered aliens^E ✓	Natural veld with heavy alien infestation ^E	Veld dominated by alien species ^E	Gardens
Sport field	Cultivated land	Paved surface	Building or other structure	Bare soil

If any of the boxes marked with an “E” is ticked, please consult an appropriate specialist to assist in the completion of this section if the environmental assessment practitioner doesn’t have the necessary expertise.

5. SURFACE WATER

Indicate the surface water present on and or adjacent to the site and alternative sites?

Perennial River	YES	NO ✓	UNSURE
Non-Perennial River	YES	NO ✓	UNSURE
Permanent Wetland	YES	NO ✓	UNSURE
Seasonal Wetland	YES	NO ✓	UNSURE
Artificial Wetland	YES	NO ✓	UNSURE
Estuarine / Lagoonal wetland	YES	NO ✓	UNSURE

If any of the boxes marked YES or UNSURE is ticked, please provide a description of the relevant watercourse.

N/A

6. LAND USE CHARACTER OF SURROUNDING AREA

Indicate land uses and/or prominent features that currently occur within a 500m radius of the site and give description of how this influences the application or may be impacted upon by the application:

Natural area ✓	Dam or reservoir	Polo fields
Low density residential ✓	Hospital/medical centre	Filling station ^H
Medium density residential	School	Landfill or waste treatment site
High density residential	Tertiary education facility	Plantation
Informal residential ^A	Church	Agriculture ✓
Retail commercial & warehousing	Old age home	River, stream or wetland
Light industrial	Sewage treatment plant ^A	Nature conservation area
Medium industrial ^{AN}	Train station or shunting yard ^N	Mountain, koppie or ridge
Heavy industrial ^{AN}	Railway line ^N	Museum
Power station	Major road (4 lanes or more) ^N	Historical building
Office/consulting room	Airport ^N	Protected Area
Military or police base/station/compound	Harbour	Graveyard
Spoil heap or slimes dam ^A	Sport facilities	Archaeological site
Quarry, sand or borrow pit	Golf course	Other land uses (describe) ✓ Mining

If any of the boxes marked with an "N" are ticked, how this impact will / be impacted upon by the proposed activity? Specify and explain:

N/A

If any of the boxes marked with an "An" are ticked, how will this impact / be impacted upon by the proposed activity? Specify and explain:

N/A

If any of the boxes marked with an "H" are ticked, how will this impact / be impacted upon by the proposed activity? Specify and explain:

N/A

Does the proposed site (including any alternative sites) fall within any of the following:

Critical Biodiversity Area (as per provincial conservation plan)	YES	NO✓
Core area of a protected area?	YES	NO✓
Buffer area of a protected area?	YES	NO✓
Planned expansion area of an existing protected area?	YES	NO✓
Existing offset area associated with a previous Environmental Authorisation?	YES	NO✓
Buffer area of the SKA?	YES	NO✓

If the answer to any of these questions was YES, a map indicating the affected area must be included in Appendix A.

7. CULTURAL/HISTORICAL FEATURES

Are there any signs of culturally or historically significant elements, as defined in section 2 of the National Heritage Resources Act, 1999, (Act No. 25 of 1999), including Archaeological or paleontological sites, on or close (within 20m) to the site? If YES, explain:	YES	NO✓
	Uncertain	

N/A

If uncertain, conduct a specialist investigation by a recognised specialist in the field (archaeology or palaeontology) to establish whether there is such a feature(s) present on or close to the site. Briefly explain the findings of the specialist:

A Phase 1 Heritage Impact Assessment was undertaken and is included in Appendix D.

The findings of the specialist are in summary:

The proposed footprint is exclusively underlain by well-developed, wind-blown sands covering low relief terrain. No fossils were observed within the aeolian overburden as anticipated, since it is generally not expected to be fossiliferous in the absence of karst topography, pans, springs or well-developed alluvial deposits in this case. The investigation also confirms results from a previous study when the section was inspected as part of the proposed Lehating 132kV line in 2015, showing that the development will not impact in situ Stone Age archaeological remains, of rock art (engravings), graves, stonewalled structures or historically significant buildings older than 60 years. The proposed footprint is considered to be of low archaeological significance and assigned a rating of Generally Protected C. As far as the heritage component is concerned, the proposed development may proceed, provided that all excavation activities are restricted to within the boundaries of the linear footprint.

Will any building or structure older than 60 years be affected in any way?	YES	NO✓
Is it necessary to apply for a permit in terms of the National Heritage Resources Act, 1999 (Act 25 of 1999)?	YES	NO✓

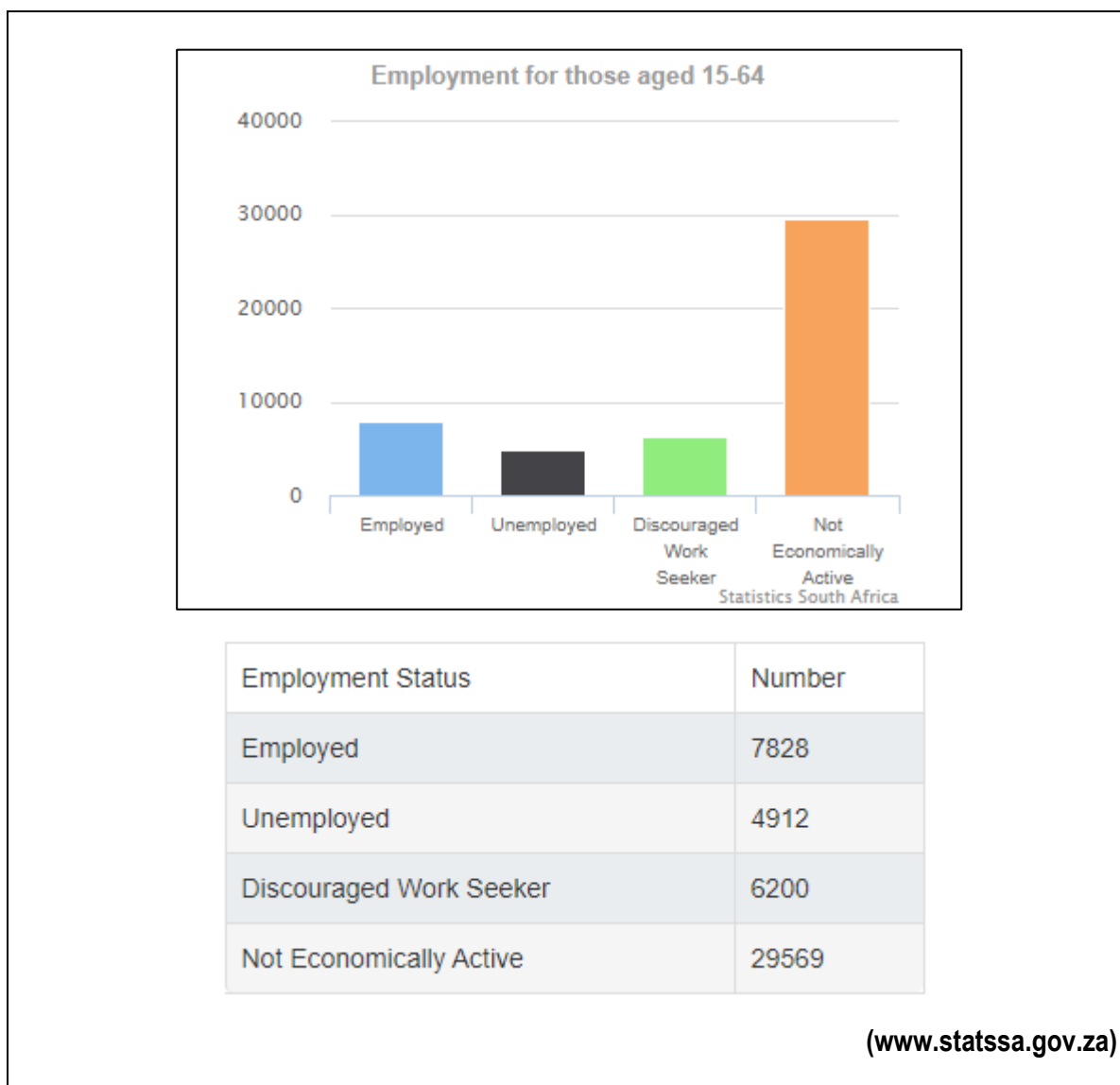
If YES, please provide proof that this permit application has been submitted to SAHRA or the relevant provincial authority.

8. SOCIO-ECONOMIC CHARACTER

a) Local Municipality

Please provide details on the socio-economic character of the local municipality in which the proposed site(s) are situated.

Level of unemployment:



Economic profile of local municipality:

The Joe Morolong Local Municipality was established in 2000 and serves 15 wards, most of which are rural. Although unemployment is high, the Municipality has great potential for developers, especially those interested in ecotourism and conservation.

The municipal area is approximately 5 813km² in size and is part of the John Taolo Gaetsewe District Municipality. The population size, as at 2011, was 89530.

Agriculture, mining and community services are the primary economic sectors.

(www.statssa.gov.za)

Level of education:

Group	Percentage
No Schooling	3,7%
Some Primary	54%
Completed Primary	6,8%
Some Secondary	27,7%
Completed Secondary	6,2%
Higher Education	0,4%
Not Applicable	1,2%

(www.statssa.gov.za)

b) Socio-economic value of the activity

What is the expected capital value of the activity on completion?
 What is the expected yearly income that will be generated by or as a result of the activity?
 Will the activity contribute to service infrastructure?
 Is the activity a public amenity?
 How many new employment opportunities will be created in the development and construction phase of the activity/ies?
 What is the expected value of the employment opportunities during the development and construction phase?
 What percentage of this will accrue to previously disadvantaged individuals?
 How many permanent new employment opportunities will be created during the operational phase of the activity?
 What is the expected current value of the employment opportunities during the first 10 years?
 What percentage of this will accrue to previously disadvantaged individuals?

R 22.5 million
The project will not generate income directly.
YES ✓ NO
YES NO ✓
Unknown at present.
R 900 000
30%
R 120 000 / year for route maintenance.
± R 1.5 million
30%

9. BIODIVERSITY

Please note: The Department may request specialist input/studies depending on the nature of the biodiversity occurring on the site and potential impact(s) of the proposed activity/ies. To assist with the identification of the biodiversity occurring on site and the ecosystem status consult <http://bgis.sanbi.org> or BGIShelp@sanbi.org. Information is also available on compact disc (cd) from the Biodiversity-GIS Unit, Ph (021) 799 8698. This information may be updated from time to time and it is the applicant/ EAP's responsibility to ensure that the latest version is used. A map of the relevant biodiversity information (including an indication of the habitat conditions as per (b) below) and must be provided as an overlay map to the property/site plan as Appendix D to this report.

- a) **Indicate the applicable biodiversity planning categories of all areas on site and indicate the reason(s) provided in the biodiversity plan for the selection of the specific area as part of the specific category)**

Systematic Biodiversity Planning Category				If CBA or ESA, indicate the reason(s) for its selection in biodiversity plan
Critical Biodiversity Area (CBA)	Ecological Support Area (ESA)	Other Natural Area (ONA) ✓	No Natural Area Remaining (NNR)	

- b) **Indicate and describe the habitat condition on site**

Habitat Condition	Percentage of habitat condition class (adding up to 100%)	Description and additional Comments and Observations (including additional insight into condition, e.g. poor land management practises, presence of quarries, grazing, harvesting regimes etc).
Natural	%	
Near Natural (includes areas with low to moderate level of alien invasive plants)	100%	The powerline route consists of areas of natural vegetation along the perimeter of mining areas with varying degrees of disturbance.
Degraded (includes areas heavily invaded by alien plants)	%	
Transformed (includes cultivation, dams, urban, plantation, roads, etc)	%	

c) Complete the table to indicate:

- (i) the type of vegetation, including its ecosystem status, present on the site; and
- (ii) whether an aquatic ecosystem is present on site.

Terrestrial Ecosystems		Aquatic Ecosystems						
Ecosystem threat status as per the National Environmental Management: Biodiversity Act (Act No. 10 of 2004)	Critical	Wetland (including rivers, depressions, channelled and unchanneled wetlands, flats, seeps pans, and artificial wetlands)			Estuary		Coastline	
	Endangered							
	Vulnerable	YES	NO ✓	UNSURE	YES	NO ✓	YES	NO ✓
	Least Threatened ✓	YES	NO ✓	UNSURE	YES	NO ✓	YES	NO ✓

d) Please provide a description of the vegetation type and/or aquatic ecosystem present on site, including any important biodiversity features/information identified on site (e.g. threatened species and special habitats)

The vegetation type of the area is Kathu Bushveld (SVk 11) (Mucina & Rutherford, 2006), which is not considered to be of high conservation value and is listed as being of Least Concern (LC) under the National List of Threatened Ecosystems (Notice 1477 of 2009).

According to the Northern Cape Critical Biodiversity Areas Plan (2016), the proposed powerline route falls within an Other Natural Area (ONA), which indicates that the area is considered to still consist of natural vegetation though it is not essential in meeting conservation targets and has an overall low conservation value.

The vegetation along the powerline route is clearly still largely natural, in a fairly good condition and with a significant species diversity, but given the limited footprint of the proposed powerline, it is unlikely to cause extensive disturbance of the environment.

Several protected plant species occur along the powerline route. Protected tree species include: *Boscia albitrunca*, *Vachellia erioloba* and *Vachellia haematoxylon*. Where these tree species will be affected and will require removal, the necessary permits will need to be obtained. There are also two protected geophyte plant species, namely: *Raphionacme velutina* and *Harpagophytum procumbens* observed along the powerline route. Should any specimens be affected, permits should be obtained to transplant to adjacent areas.

Refer to the Ecological and Biodiversity Assessment in Appendix D for more detail.

SECTION C: PUBLIC PARTICIPATION

1. ADVERTISEMENT AND NOTICE

Publication name	Noordkaap Bulletin & Kathu Gazette	
Date published	20 October 2022 & 29 October 2022	
Site notice position	Latitude	Longitude
	27° 07' 12.75" S	22° 50' 03.39" E
	27° 07' 11.20" S	22° 50' 56.03" E
	27° 07' 09.61" S	22° 50' 58.22" E
Date placed	20 October 2022	

Include proof of the placement of the relevant advertisements and notices in Appendix E1.

2. DETERMINATION OF APPROPRIATE MEASURES

Provide details of the measures taken to include all potential I&APs as required by Regulation 41(2)(e) and 41(6) of GN 733.

Key stakeholders (other than organs of state) identified in terms of Regulation 41(2)(b) of GN 733

Title, Name and Surname	Affiliation/ key stakeholder status	Contact details (tel number or e-mail address)
Cllr T.I. Gaobuse	Joe Morolong Local Municipality Ward Councillor (Ward 4)	Tel: 053 7739300
	Civil Aviation Authority (CAA)	Tel: 011 5451000 Email: obstacles@caa.co.za
Me. Marina Schoeman Mr Xavier Peterson	Assmang Black Rock Mine Operations (Landowner)	Tel: 053 7515555 / 053 7515248 Email: [REDACTED]
	Mkhulu Mine (Landowner)	Email: [REDACTED]
Mr Johan Wessels	Farm Santoy 230 (Landowner)	Tel: [REDACTED] Email: [REDACTED]
	Bird Life South Africa	Tel: 011 7891122 Email: info@birdlife.org.za

Some personal information withheld in terms of the POPI Act (Act 14 of 2013).

Include proof that the key stakeholder received written notification of the proposed activities as Appendix E2. This proof may include any of the following:

- e-mail delivery reports;
- registered mail receipts;
- courier waybills;
- signed acknowledgements of receipt; and/or
- or any other proof as agreed upon by the competent authority.

3. ISSUES RAISED BY INTERESTED AND AFFECTED PARTIES

Summary of main issues raised by I&APs	Summary of response from EAP
None to date. The draft BAR is currently being circulated for comment.	

4. COMMENTS AND RESPONSE REPORT

The practitioner must record all comments received from I&APs and respond to each comment before the Draft BAR is submitted. The comments and responses must be captured in a comments and response report as prescribed in the EIA regulations and be attached to the Final BAR as Appendix E3.

5. AUTHORITY PARTICIPATION

Authorities and organs of state identified as key stakeholders:

Authority/Organ of State	Contact person (Title, Name and Surname)	Tel No	Fax No	e-mail	Postal address
DMR		053 8071700		mmboneni.mutheiwana.dmre.gov.za	
ESKOM	Me. Bianca Smit	053 8305911			
SAHRA	Me. N. Higgitt	021 4624502		nhiggitt@sahra.org.za	
Dept. of Roads & Public Works		053 8392277		drpw-info@ncpg.gov.za	
Joe Morolong Local Municipality	Mr Tebogo Tlhoale (Municipal Manager)	053 7739300		info@joemorolong.gov.za	

Some personal information withheld in terms of the POPI Act (Act 14 of 2013).

Include proof that the Authorities and Organs of State received written notification of the proposed activities as appendix E4.

In the case of renewable energy projects, Eskom and the SKA Project Office must be included in the list of Organs of State.

6. CONSULTATION WITH OTHER STAKEHOLDERS

Note that, for any activities (linear or other) where deviation from the public participation requirements may be appropriate, the person conducting the public participation process may deviate from the requirements of that sub-regulation to the extent and in the manner as may be agreed to by the competent authority.

Proof of any such agreement must be provided, where applicable. Application for any deviation from the regulations relating to the public participation process must be submitted prior to the commencement of the public participation process.

A list of registered I&APs must be included as appendix E5.

Copies of any correspondence and minutes of any meetings held must be included in Appendix E6.

SECTION D: IMPACT ASSESSMENT

The assessment of impacts must adhere to the minimum requirements in the EIA Regulations, 2014 and should take applicable official guidelines into account. The issues raised by interested and affected parties should also be addressed in the assessment of impacts.

1. IMPACTS THAT MAY RESULT FROM THE PLANNING AND DESIGN, CONSTRUCTION, OPERATIONAL, DECOMMISSIONING AND CLOSURE PHASES AS WELL AS PROPOSED MANAGEMENT OF IDENTIFIED IMPACTS AND PROPOSED MITIGATION MEASURES

Provide a summary and anticipated significance of the potential direct, indirect and cumulative impacts that are likely to occur as a result of the planning and design phase, construction phase, operational phase, decommissioning and closure phase, including impacts relating to the choice of site/activity/technology alternatives as well as the mitigation measures that may eliminate or reduce the potential impacts listed. This impact assessment must be applied to all the identified alternatives to the activities identified in Section A(2) of this report.

Activity	Impact summary	Significance	Proposed mitigation
Alternative 1 (preferred alternative)			
Construction of a 132kV powerline between Klipkop substation and Wessels substation, around the Black Rock Mine, near Hotazel.	<p>Direct impacts:</p> <ul style="list-style-type: none"> Vegetation destruction 	<p>Medium (without mitigation) Low (with mitigation)</p>	<ul style="list-style-type: none"> A suitably qualified ecologist or botanist should undertake a walkthrough survey of the powerline route prior to construction to identify, count and mark all protected plants that will be affected by construction. Necessary permits need to be obtained for the tree species (<i>Boscia albitrunca</i>, <i>Vachellia erioloba</i> and <i>Vachellia haematoxylon</i>) that require removal. If protected succulent geophytic plants need to be moved to an adjacent area, permits also need to be obtained. These plants include: <i>Raphionacme velutina</i> and <i>Harpagophytum procumbens</i> The footprint of disturbance and clearance

BASIC ASSESSMENT REPORT

Activity	Impact summary	Significance	Proposed mitigation
	<ul style="list-style-type: none"> • Hazardous / chemical substance management 	<p>High (without mitigation) Low (with mitigation)</p>	<p>of vegetation must always be kept to a minimum.</p> <ul style="list-style-type: none"> • After construction has ceased, all construction materials should be removed from the area. • After construction of the powerline, the area must be rehabilitated. This includes removal of all construction material. Excavated rock may not be left in heaps and must be removed or distributed evenly over the terrain to represent a natural environment. Compacted areas must be ripped. Construction roads not being utilised afterwards must be rehabilitated. • Adequate erosion monitoring and control is required. • Adequate monitoring of weed and invasive species establishment and their continued eradication must be maintained. Where category 1 and 2 weeds occur, they require removal by the property owner according to the Conservation of Agricultural Resources Act, No. 43 of 1983 and the NEM: Biodiversity Act, No. 10 of 2004. • All necessary Eskom guidelines and standards with regard to waste disposal, oil management and spill procedures should be adhered to. • Hazardous and chemical substances must be stored appropriately

BASIC ASSESSMENT REPORT

Activity	Impact summary	Significance	Proposed mitigation
			<p>within the Contractor's camp.</p> <ul style="list-style-type: none"> • Unless specifically authorized, fuel for construction vehicles shall not be stored on site. • All chemicals used during construction should be stored in proper storerooms or protected areas to prevent pollution. • Vehicles should be serviced at designated areas. No oil, diesel or other chemicals may be spilled or discharged anywhere. • Possible contamination of storm water entering surrounding drainage systems by chemicals must be prevented at all times. • Where applicable, the contractors must ensure that all relevant national, regional and local legislation regarding storage, transport, use and disposal of petroleum, chemical, harmful or hazardous substances and materials are adhered to, where necessary. • All environmental problems occurring on the site such as chemical spillage, wasteful water disposal, etc. should be reported to the Project Manager and ECO. • Spill containment and treatment is the responsibility of the contractor and must be cleaned to the satisfaction of the ECO.

BASIC ASSESSMENT REPORT

Activity	Impact summary	Significance	Proposed mitigation
	<ul style="list-style-type: none"> <li data-bbox="411 443 660 517">• Avifaunal risks (impact on birds) <li data-bbox="411 757 692 831">• Noise (only construction phase) 	<p data-bbox="735 454 979 562">High (without mitigation) Low (with mitigation)</p> <p data-bbox="735 779 979 815">Low (with mitigation)</p>	<ul style="list-style-type: none"> <li data-bbox="1027 237 1385 344">• Mixing should be confined to an impervious and contained area. <li data-bbox="1027 421 1369 528">• The powerline's design must be "bird-friendly" as per Eskom's standards. <li data-bbox="1027 537 1374 680">• Hunting, capturing or trapping of birds should be prevented by making this a punishable offence. <li data-bbox="1027 757 1378 972">• Working hours must conform to local by-laws. Any deviation from this should be done in consultation with the local authorities. <li data-bbox="1027 981 1362 1160">• Contractors will not be allowed to use sound amplification equipment on site, unless in emergency situations. <li data-bbox="1027 1169 1362 1487">• All equipment must be regularly and systematically checked, maintained and repaired (especially exhaust systems) as poorly maintained vehicles can generate disturbing and unnecessary noise. <li data-bbox="1027 1496 1378 1675">• Construction workers must be made aware of not creating unnecessary noise such as hooting and shouting. <li data-bbox="1027 1684 1362 1823">• Any complaints received regarding noise levels must be reported to the ECO.
	<p data-bbox="411 1830 628 1865">Indirect impacts:</p> <ul style="list-style-type: none"> <li data-bbox="411 1874 692 1973">• Impact on terrestrial animals due to habitat destruction 	<p data-bbox="735 1865 979 1973">Medium (without mitigation) Low (with mitigation)</p>	<ul style="list-style-type: none"> <li data-bbox="1027 1865 1362 1973">• Hunting, capturing or trapping of mammals should be prevented by

BASIC ASSESSMENT REPORT

Activity	Impact summary	Significance	Proposed mitigation
	<ul style="list-style-type: none"> • Impact on heritage resources 	Medium (without mitigation) Low (with mitigation)	making this a punishable offence. <ul style="list-style-type: none"> • Open trenches may act as pitfall traps to mammals, reptiles and amphibians and trenches should be monitored daily for trapped animals, which should be removed promptly. • In the event of poisonous snakes or other dangerous animals encountered on the site, an experienced and certified snake handler or zoologist must remove these animals from the site and re-locate them to a suitable area. <ul style="list-style-type: none"> • All excavation activities must be restricted within the boundaries of the linear development footprint. • Should any historical or archaeological artefacts be unearthed, the ECO and Archaeologist must be notified.
	Cumulative impacts:		
	Direct impacts:		
	Indirect impacts:		
	Cumulative impacts:		
Alternative 2			
	Direct impacts:		
	Indirect impacts:		
	Cumulative impacts:		
	Direct impacts:		

BASIC ASSESSMENT REPORT

Activity	Impact summary	Significance	Proposed mitigation
	Indirect impacts:		
	Cumulative impacts:		
Alternative 3			
	Direct impacts:		
	Indirect impacts:		
	Cumulative impacts:		
	Direct impacts:		
	Indirect impacts:		
	Cumulative impacts:		
No-go option			
No powerline, site remains unchanged.	Direct impacts:		
	<ul style="list-style-type: none"> • No firm supply of electricity to mine. • No job creation 	Medium Medium	
	Indirect impacts:		
	<ul style="list-style-type: none"> • Negative impact on mine's productivity 	Medium	
	Cumulative impacts:		

A complete impact assessment in terms of Regulation 19(3) of GN 733 must be included as Appendix F.

2. ENVIRONMENTAL IMPACT STATEMENT

Taking the assessment of potential impacts into account, please provide an environmental impact statement that summarises the impact that the proposed activity and its alternatives may have on the environment after the management and mitigation of impacts have been taken into account, with specific reference to types of impact, duration of impacts, likelihood of potential impacts actually occurring and the significance of impacts.

Alternative A (preferred alternative)

The proposed 132kV powerline is required to provide a firm supply of electricity to the Wessels Mine, allowing other lines to be switched off for maintenance, without affecting the operation of the mine.

Route alternatives were evaluated during the EIA for the Klipkop – Lehating powerline. The section of powerline from Klipkop to Wessels substations is planned along the perimeter of the Black Rock Mine. This section is considered less sensitive as there are no watercourses, ridges or other prominent natural features present. The area does however consist of natural vegetation, but the proposed powerline, with recommended mitigation measures, is not expected to cause major impacts.

Impacts have been identified and mitigation recommendations made in conjunction with specialist input. Most impacts are anticipated during the construction phase, which is only expected to be four to six months. Thereafter the site should be rehabilitated to as close as possible to the natural surrounding area.

It is therefore the opinion of the EAP, that, with appropriate monitoring during construction, there is no reason to refuse Environmental Authorisation for this project.

Alternative B

Alternative C

No-go alternative (compulsory)

The no-go alternative, i.e. not constructing the 132kV powerline, will result in electrical infrastructure remaining as is. The mine will function as it is currently, but production will be negatively affected when maintenance is required, affecting supply to the mine.

Through appropriate monitoring and mitigation measures proposed, there is no reason for the no-go alternative to be the preferred alternative.

SECTION E. RECOMMENDATION OF PRACTITIONER

Is the information contained in this report and the documentation attached hereto sufficient to make a decision in respect of the activity applied for (in the view of the environmental assessment practitioner)?

YES✓	NO
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If “NO”, indicate the aspects that should be assessed further as part of a Scoping and EIA process before a decision can be made (list the aspects that require further assessment).

N/A

If “YES”, please list any recommended conditions, including mitigation measures that should be considered for inclusion in any authorisation that may be granted by the competent authority in respect of the application.

- **The powerline’s design must be “bird-friendly” as per Eskom’s standards.**
 - **A suitably qualified ecologist or botanist should undertake a walkthrough survey of the powerline route prior to construction to identify, count and mark all protected plants that will be affected by construction.**
 - **Necessary permits need to be obtained for the tree species (*Boscia albitrunca*, *Vachellia erioloba* and *Vachellia haematoxylon*) that require removal.**
 - **If protected succulent geophytic plants need to be moved to an adjacent area, permits also need to be obtained. These plants include: *Raphionacme velutina* and *Harpagophytum procumbens*.**
 - **The footprint of disturbance and clearance of vegetation must always be kept to a minimum.**
 - **After construction has ceased, all construction materials should be removed from the area.**
- Also refer to the EMPr for a more comprehensive list of mitigation measures proposed for the construction phase.**

Is an EMPr attached?

YES✓	NO
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The EMPr must be attached as Appendix G.

The details of the EAP who compiled the BAR and the expertise of the EAP to perform the Basic Assessment process must be included as Appendix H.

If any specialist reports were used during the compilation of this BAR, please attach the declaration of interest for each specialist in Appendix I.

Any other information relevant to this application and not previously included must be attached in Appendix J.

NAME OF EAP

SIGNATURE OF EAP

DATE

SECTION F: APPENDIXES

The following appendixes must be attached:

Appendix A: Maps

Appendix B: Photographs

Appendix C: Facility illustration(s)

Appendix D: Specialist reports (including terms of reference)

Appendix E: Public Participation

Appendix F: Impact Assessment

Appendix G: Environmental Management Programme (EMPr)

Appendix H: Details of EAP and expertise

Appendix I: Specialist's declaration of interest

Appendix J: Additional Information