

APPENDIX J
ADDITIONAL INFORMATION

APPENDIX J1
CO-ORDINATES OF ALTERNATIVE ROUTES

CO-ORDINATES FOR THE PROPOSED MBUMBU – TSAKANI POWER LINE

Alternative Route 1 (Green Route)

	Longitude	Latitude
Mbumbu Substation	31° 10' 56.3"E	24° 41' 1.9"S
Start Point	31° 11' 0.7"E	24° 41' 0.6"S
	31° 11' 8.3"E	24° 41' 4.8"S
	31° 11' 15.9"E	24° 41' 9.0"S
	31° 11' 23.6"E	24° 41' 13.2"S
	31° 11' 31.2"E	24° 41' 17.4"S
	31° 11' 38.8"E	24° 41' 21.6"S
	31° 11' 46.4"E	24° 41' 25.7"S
	31° 11' 54.1"E	24° 41' 29.9"S
	31° 12' 1.7"E	24° 41' 34.1"S
	31° 12' 9.3"E	24° 41' 38.3"S
	31° 12' 16.9"E	24° 41' 42.5"S
	31° 12' 24.6"E	24° 41' 46.7"S
	31° 12' 32.2"E	24° 41' 50.8"S
	31° 12' 39.8"E	24° 41' 55.0"S
	31° 12' 47.4"E	24° 41' 59.2"S
	31° 12' 55.0"E	24° 42' 3.4"S
	31° 13' 2.7"E	24° 42' 7.6"S
Bend	31° 13' 10.9"E	24° 42' 12.1"S
	31° 13' 19.6"E	24° 42' 10.3"S
	31° 13' 28.2"E	24° 42' 8.5"S
	31° 13' 36.9"E	24° 42' 6.7"S
	31° 13' 45.6"E	24° 42' 4.9"S
	31° 13' 54.2"E	24° 42' 3.1"S
	31° 14' 2.9"E	24° 42' 1.3"S
	31° 14' 11.6"E	24° 41' 59.5"S
	31° 14' 20.2"E	24° 41' 57.7"S
	31° 14' 28.9"E	24° 41' 55.9"S
	31° 14' 37.6"E	24° 41' 54.1"S
Bend	31° 14' 46.8"E	24° 41' 52.2"S
	31° 14' 55.7"E	24° 41' 52.0"S
	31° 15' 4.7"E	24° 41' 51.8"S
	31° 15' 13.5"E	24° 41' 51.6"S
	31° 15' 22.4"E	24° 41' 51.4"S
	31° 15' 31.3"E	24° 41' 51.2"S
	31° 15' 40.2"E	24° 41' 51.0"S
	31° 15' 49.1"E	24° 41' 50.8"S

	31° 15' 58.0"E	24° 41' 50.6"S
	31° 16' 6.9"E	24° 41' 50.4"S
	31° 16' 15.8"E	24° 41' 50.2"S
	31° 16' 24.6"E	24° 41' 50.0"S
	31° 16' 33.5"E	24° 41' 49.8"S
	31° 16' 42.4"E	24° 41' 49.6"S
Bend	31° 18' 10.8"E	24° 40' 11.0"S
	31° 18' 18.2"E	24° 40' 6.5"S
	31° 18' 25.6"E	24° 40' 2.0"S
	31° 18' 33.0"E	24° 39' 57.5"S
	31° 18' 40.4"E	24° 39' 53.0"S
	31° 18' 47.8"E	24° 39' 48.5"S
	31° 18' 55.2"E	24° 39' 44.0"S
	31° 19' 2.6"E	24° 39' 39.5"S
	31° 19' 10.0"E	24° 39' 35.0"S
	31° 19' 17.4"E	24° 39' 30.5"S
	31° 19' 24.8"E	24° 39' 26.0"S
	31° 19' 32.2"E	24° 39' 21.4"S
End point	31° 19' 31.2"E	24° 39' 20.5"S
Tsakani Substation Alternative 1	31° 19' 38.6"E	24° 39' 20.1"S
Tsakani Substation Alternative 2	31° 20' 4.0"E	24° 39' 20.1"S

Alternative Route 2 (Purple Route)

	Longitude	Latitude
Mbumbu Substation	31° 10' 56.3"E	24° 41' 1.9"S
Start point	31° 11' 0.7"E	24° 41' 0.6"S
	31° 11' 8.4"E	24° 40' 56.6"S
	31° 11' 16.1"E	24° 40' 52.4"S
	31° 11' 23.7"E	24° 40' 48.4"S
	31° 11' 31.4"E	24° 40' 44.3"S
	31° 11' 39.1"E	24° 40' 40.2"S
	31° 11' 46.8"E	24° 40' 36.1"S
	31° 11' 54.5"E	24° 40' 32.0"S
	31° 12' 2.2"E	24° 40' 27.9"S
	31° 12' 9.8"E	24° 40' 23.8"S
	31° 12' 17.5"E	24° 40' 19.7"S
	31° 12' 25.2"E	24° 40' 15.6"S
	31° 12' 32.9"E	24° 40' 11.5"S
	31° 12' 40.6"E	24° 40' 7.5"S
	31° 12' 48.2"E	24° 40' 3.3"S
	31° 12' 55.9"E	24° 39' 59.3"S
	31° 13' 3.6"E	24° 39' 55.2"S
	31° 13' 11.3"E	24° 39' 51.1"S
	31° 13' 19.0"E	24° 39' 47.0"S
	31° 13' 26.7"E	24° 39' 42.9"S
	31° 13' 34.3"E	24° 39' 38.8"S
	31° 13' 42.0"E	24° 39' 34.7"S
	31° 13' 49.7"E	24° 39' 30.6"S
	31° 13' 57.4"E	24° 39' 26.5"S
	31° 14' 5.1"E	24° 39' 22.4"S
	31° 14' 12.7"E	24° 39' 18.3"S
Bend	31° 14' 20.1"E	24° 39' 14.4"S
	31° 14' 28.6"E	24° 39' 14.6"S
	31° 14' 37.9"E	24° 39' 14.8"S
	31° 14' 46.8"E	24° 39' 14.9"S
	31° 14' 55.7"E	24° 39' 15.1"S
	31° 15' 4.5"E	24° 39' 15.3"S
	31° 15' 13.4"E	24° 39' 15.5"S
	31° 15' 22.3"E	24° 39' 15.6"S
	31° 15' 31.2"E	24° 39' 15.8"S
	31° 15' 40.1"E	24° 39' 16.0"S
	31° 15' 49.0"E	24° 39' 16.2"S
	31° 15' 57.9"E	24° 39' 16.3"S
	31° 16' 6.8"E	24° 39' 16.5"S
	31° 16' 15.7"E	24° 39' 16.7"S
	31° 16' 24.5"E	24° 39' 16.9"S
	31° 16' 33.4"E	24° 39' 17.0"S

	31° 16' 42.3"E	24° 39' 17.2"S
	31° 16' 51.2"E	24° 39' 17.4"S
	31° 17'E	24° 39' 17.6"S
	31° 17' 9.0"E	24° 39' 17.7"S
	31° 17' 17.9"E	24° 39' 17.9"S
	31° 17' 26.8"E	24° 39' 18.1"S
	31° 17' 35.6"E	24° 39' 18.3"S
	31° 17' 44.5"E	24° 39' 18.4"S
	31° 17' 53.4"E	24° 39' 18.6"S
	31° 18' 2.3"E	24° 39' 18.8"S
	31° 18' 11.2"E	24° 39' 19.0"S
	31° 18' 20.1"E	24° 39' 19.1"S
	31° 18' 29.0"E	24° 39' 19.3"S
	31° 18' 37.9"E	24° 39' 19.5"S
	31° 18' 46.8"E	24° 39' 19.7"S
	31° 18' 55.6"E	24° 39' 19.8"S
	31° 19' 4.5"E	24° 39' 20.0"S
	31° 19' 13.4"E	24° 39' 20.2"S
	31° 19' 22.3"E	24° 39' 20.3"S
End point	31° 19' 31.2"E	24° 39' 20.5"S
Tsakani Substation Alternative 1	31° 19' 38.6"E	24° 39' 20.1"S
Tsakani Substation Alternative 2	31° 20' 4.0"E	24° 39' 20.1"S

APPENDIX J2
SIP10 CONFIRMATION

Mr Ishaam Abader
Deputy Director General
Department of Environmental Affairs
Environmental House
Arcadia

Date:
15 October 2014

Enquiries:
Tel +27 11 800 6839

Dear Mr Abader

RE: SIP 10 Project Confirmation - DEA Reference: 14/12/16/3/3/1/1291 – (132kV Power line: Mbumbu Traction Substation to Tsakani Substation)

The Mbumbu – Tsakani Project (14/12/16/3/3/1/1291) is a 17 km, 132 kV line from Mbumbu Substation to the new Tsakani Substation. This project is located in the Green Valley area which is experiencing high demand growth and network load constraints.


The project will enable the following:

- Cater for electrical load growth
- Provide network flexibility
- Improves Reliability on the network
- De-load Acornhoek Substation

We confirm that this is a project that is part of the SIP 10 programme.

If any further clarification is required you are welcome to contact this office.

Yours sincerely



Rudolph van Buuren
Senior Manager: Strategic Projects Department
Group Capital Division

APPENDIX J3
EXCLUSION FROM BIOSPHERE RESERVE

Botham, Nicole

From: Marie-Tinka Uys, K2C <info@kruger2canyons.org>
Sent: 11 November 2014 12:37 PM
To: Botham, Nicole
Subject: RE: Eskom Mbumbu Powerline

Dear Ms Botham

Thank you for your mails Re: The Eskom Mbumbu line.

I would like to confirm that the maps copied to us of the possible routes of the power line is in the UNESCO Biosphere's transition zone. The construction of these line in this area is thus compatible with the development objective of this zone.

My Best wishes to you



From: Botham, Nicole [<mailto:Nicole.Botham@rhdhv.com>]
Sent: 01 October 2014 09:53 AM
To: info@kruger2canyons.org
Cc: res@ottersden.co.za
Subject: Eskom Mbumbu Powerline



Hi Marie-Tinka

As per our telephonic conversation this morning, please find attached the requested locality and sensitivity map.

Please see below a brief background to the proposed project.

Eskom Holdings (SoC) Pty Ltd (Eskom Distribution - Northern Region) has submitted an application for environmental authorisation to the Department of Environmental Affairs (DEA) for the Basic Assessment for the Proposed Construction of a 17 km 132kV Power line from the Existing Mbumbu Substation to the new Tskani Substation, Bushbackridge Local Municipality, Mpumalanga Province.

Eskom intends to carry out activities listed under GN R.544 (Listing Notice 1) and GN R.546

(Listing Notice 3). The proposed project will entail the following:

- The establishment of a new 132 kV power line between the existing Mbumbu traction substation to the proposed new Tsakani substation, a distance of approximately 17 km.
- The construction of a new 10,000m² substation in Tsakani.

Regards,

Nicole Botham
Environmental Consultant

T +27 (0)12 3675800 | D +270123675916 | M +27825752213 | E Nicole.Botham@rhdhv.com | W www.rhdhv.co.za
Royal HaskoningDHV (Pty) Ltd trading as Royal HaskoningDHV | Reg No. 1966/001916/07
Fountain Square, 78 Kalkoen Street, Monument Park Ext 2, 0181
PO Box 25302, Monument Park, 0105, Gauteng, South Africa



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APPENDIX J4 – RESOLUTION LETTER



rural development & land reform

Department:
Rural Development and Land Reform
REPUBLIC OF SOUTH AFRICA

MPUMALANGA PROVINCIAL SHARED SERVICE CENTRE

Private Bag X11305, NELSPRUIT, 1200, Tel: 013 755-3499, Fax 013 755-1224

ENQUIRIES: A. MAKHADO
REFERENCE: ET4/2/35

Eskom Distribution

Attention: Siebert Labuschagne

RE: CONFIRMATION OF LAND RIGHTS HOLDERS RESOLUTION MEETING HELD WITH THE COMMUNITY OF HLUVUKANI VILLAGE

The matter above has reference:

It is hereby confirmed that on 28 November 2014 a meeting was held with the said community land rights holders for the passing of the resolution in terms of Interim Protection of Informal Land Rights Act, 1996 (Act 31 of 1996). The purpose was to give Eskom consent to construct a power line.

It was resolved that:

1. The community of Hluvukani gives consent to Eskom to construct the power line.
2. Eskom will pay a direct compensation to the affected communities when registering the servitude on the property.
3. The compensation amount will be distributed as follows: 20% to the tribal authority, 30% to the community through identified projects by community and 50% to the direct affected people.
4. Eskom will employ local people during construction.

We trust that you will find this in order, and please do not hesitate to call should you require more clarity.

Kind Regards

MR ZN KHUMALO
ACTING DIRECTOR: PROPERTY MANAGEMENT

DATE: 28/01/2015.

APPENDIX J5 – 2010 VS 2014 EIA REGULATIONS

2010 EIA Regulations		2014 EIA Regulations		Description of each listed activity as per detailed project description (not as per notice listing wording):	Comparison	EIA consideration undertaken deemed to consider 2014 regulation
No. and date of relevant notice:	Activity No(s) (i.t.o. relevant notice):	No. and date of relevant notice:	Activity No(s) (i.t.o. relevant notice):			
GNR ¹ 544 – Jun 2010 – LN ² 1	10	GNR 983 – Dec 2014 – LN 1	11	A proposed new 18 km 132 kV power line will be constructed from the existing Mbumbu traction substation to the new (1.5 ha) Tsakani substation.	Considered to be directly comparable.	Yes
	22		24	Access to and from the site may be required where there is no road access during the construction and operational (maintenance) phases of the project. Access will be required to the proposed Tsakani substation from existing roads.	Considered to be directly comparable.	Yes
	23		28	The transformation of land for industrial purposes (electricity distribution) will be required. The new Tsakani substation will have a 1.5 ha footprint. It is also envisaged that the current Mbumbu substation will be expanded however Activity 38 of Listing Notice 1 (EIA Regulations 2014) is not applicable as the expanded capacity will not exceed 275 kV.	Considered to be directly comparable.	Yes
	24		<i>Activity 15 of LN3 (GNR 98 5)</i>	The transformation of land for industrial purposes (electricity distribution) will be required – the relevance of this activity will be verified once the zoning of affected land portions have been determined.	This activity is no longer applicable to the project and the application form will be amended appropriately.	Not applicable
	26		30	The activity may require the clearing of indigenous vegetation as part of site preparation for construction.	Considered to be directly comparable.	Yes
	47		56	Access roads to the towers (pylons) structures may be required during construction and for maintenance purposes during the operational phase. The proposed project will make use of existing access roads and tracks as far as possible.	Considered to be directly comparable.	Yes

¹ GNR = Government Notice Regulation

² LN = Listing Notice

2010 EIA Regulations		2014 EIA Regulations		Description of each listed activity as per detailed project description (not as per notice listing wording):	Comparison	EIA consideration undertaken deemed to consider 2014 regulation	
No. and date of relevant notice:	Activity No(s) (i.t.o. relevant notice):	No. and date of relevant notice:	Activity No(s) (i.t.o. relevant notice):				
GNR 546 – June 2010 (LN 3)	3	GNR 985 – Dec 2014 – LN 3	3	A communication tower may be erected for the proposed Tsakani substation.	Remains unchanged, however this activity is no longer applicable as the proposed Tsakani Substation is not located in a sensitive geographic area.	Not applicable	
	4(a) ii (cc) & 4(a) ii (ff)		4(a) ii (cc) & 4(a) ii (ff)	Access to and from the site may be required where there is no road access during the construction and operational (maintenance) phases of the project.	Remains unchanged however this activity is no longer applicable as the proposed roads are not located in sensitive geographic areas.	Not applicable	
	12(a)		12(c)i	Clearance of vegetation for the construction of the power line. For the Green Route (Preferred) the natural areas adjacent to the proposed power line have been significantly degraded due to illegal sand mining activities, and increased wood harvesting activities. However for the Purple Route, the natural areas adjacent to the proposed power line has a more natural species composition and has less anthropogenic disturbances due to limited accessibility compared to the transformed and degraded vegetation towards the south and east.	These activities are now captured under one listed activity linked to the lower threshold, and integrated into other activities where the site's proximity to areas of concern is the trigger. Although the wording has changed to indicate that loss of any indigenous vegetation irrespective of the level of alien invasive therein, and the split into the various provinces, the consideration remains unchanged.	Yes	
	13(c) ii (cc) & 13(c) ii (ee)						
	19(a) ii (cc) & 19(a) ii (ff)		18(a) ii (cc) & 18(a) ii (ff)	Access roads to the towers (pylons) structures may be widened or lengthened during construction and for maintenance purposes during the operational phase. The proposed project will make use of existing access roads and tracks as far as possible.	Remains unchanged however this activity is no longer applicable as the proposed roads are not located in sensitive geographic areas.	Not applicable	