

Department of Environmental Affairs  
Environment House  
473 Steve Biko  
Arcadia  
PRETORIA  
0083

NEAS Reference: DEA/EIA/0001402/2012  
DEA Reference: 14/12/16/3/3/1/680/AM1  
Our reference: 13993  
Date: 28 June 2017

**ATTENTION: THE DIRECTOR FOR EIA**

Dear Sir/Madam

**APPLICATION FOR THE AMENDMENT OF THE ENVIRONMENTAL AUTHORISATION FOR THE PROPOSED MOOKODI INTEGRATION PHASE 2: CONSTRUCTION OF THE MOOKODI-GANYESA 132KV POWER LINE, NEW PROPOSED GANYESA SUBSTATION AND HAVELOCK LILO, NORTH WEST PROVINCE**

- **NEAS REF NO: DEA/EIA/0001402/2012**
- **DEA REF NO: 14/12/16/3/3/1/680/AM1**

Eskom Holdings SOC Limited, (hereafter referred to as 'Eskom') was issued with an Environmental Authorisation (EA) on 02 February 2015 for the proposed construction of the Mookodi-Ganyesa power line, new proposed Ganyesa substation and Havelock Loop in-loop out link, North West Province.

Eskom is applying for an amendment to the recently Amended EA (dated 13<sup>th</sup> June 2017), as the co-ordinates for the location of the new proposed Ganyesa substation needs to be corrected within the amended EA. The proposed substation co-ordinate details provided in the initial application for amendment of the original EA received by the DEA on the 16<sup>th</sup> May 2017 were incorrect and therefore need to be amended once more.

Additionally, as a result of recent requests from landowners, the power line alignment needs to be diverted in three (3) sections outside of the EA approved power line corridor to follow the boundaries of the affected landowner's properties. As such, amendment of the original EA approved corridor is required.

As such, SiVEST hereby submits the application form to amend the above mentioned EA.

Kindly acknowledge receipt of this communication.

Yours sincerely,

A handwritten signature in black ink, appearing to read "Shaun Taylor".

Shaun Taylor  
Environmental Scientist  
**SiVEST Environmental Division**

## Application for Amendment of Environmental Authorisation



### environmental affairs

Department:  
Environmental Affairs  
REPUBLIC OF SOUTH AFRICA

#### Application for amendment of an environmental authorisation in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended, and the Environmental Impact Assessment Regulations 2014

##### Kindly note that:

1. This form must be used to apply for the amendment of an environmental authorisation. An amendment includes:
  - a) adding, substituting, removing or changing a condition or requirement of an environmental authorisation, or
  - b) updating or changing any details or correcting a technical error.
2. This form is current as of 08 December 2014. It is the responsibility of the Applicant / EAP to ascertain whether subsequent versions of the form have been published or produced by the competent authority.
3. The required information must be typed within the spaces provided in the form. The sizes of the spaces provided are not necessarily indicative of the amount of information to be provided. It is in the form of a table that can extend itself as each space is filled with typing.
4. Incomplete applications may be rejected or returned to the applicant for amendment.
5. The use of "not applicable" in the form must be done with circumspection. Where it is used in respect of material information that is required by the competent authority for assessing the application, this may result in the rejection of the application as provided for in the regulations.
6. **No faxed or e-mailed applications will be accepted.**
7. Unless protected by law, all information contained in and attached to this application, will become public information on receipt by the competent authority. Upon request during any stage of the application process, the applicant / EAP must provide any registered interested and affected party with the information contained in and attached to this application.
8. This form must be submitted to the Department at the postal address given below or by delivery thereof to the Registry Office of the Department. Should the application form and attached reports not be submitted to the addresses given below it will be rejected.
9. Proof of payment of the prescribed fee of R2000 must accompany the submission of this form, unless an exclusion applies (see section 1 below). The application will not be processed without proof of payment unless one of the exclusions provided for in the fee Regulations is applicable AND such information in the exclusion section of this application form has been confirmed by this Department.

## Application for Amendment of Environmental Authorisation

### **DEPARTMENTAL DETAILS**

**Postal address:**

Department of Environmental Affairs  
Attention: Director: Integrated Environmental Authorisations

Private Bag X447  
Pretoria  
0001

**Physical address:**

Department of Environmental Affairs  
Attention: Director: Integrated Environmental Authorisations  
Environment House  
473 Steve Biko Road  
Arcadia  
Pretoria

Queries must be directed to the Directorate: Integrated Environmental Authorisations at:  
Tel: (012) 399-9372 Email: EIAAdmin@environment.gov.za

***Please note that this form must be copied to the relevant provincial environmental department(s)***  
View the Department's website at [http://www.environment.gov.za/](http://www.environment.gov.za) for the latest version of the documents.

# Application for Amendment of Environmental Authorisation

## 1. PROOF OF PAYMENT

Applicants are required to tick the appropriate box below to indicate that either proof of payment is attached or that, in the applicant's view, an exclusion applies. Proof and a motivation for exclusions must be attached as **Appendix 1** of this application form.

Proof of payment attached as **Appendix 1**

Exclusion applies

An applicant is excluded from paying fees if:

- The activity is a community based project funded by a government grant; or
- The applicant is an organ of state.

TYPE OF EXCLUSION	Tick where applicable. Proper motivation must be attached to the application
The activity is a community based project funded by a government grant	<input type="checkbox"/>
The applicant is an organ of state - Eskom	<input checked="" type="checkbox"/>

Department of Environmental Affairs' details for the payment of application fees

<p>Payment Enquiries: Tel: 012 399 9119 Email: eiafee@environment.gov.za</p> <p>Banking details: ABSA Bank Branch code: 632005 Account number: 1044 2400 72 Current account Reference number : .....(application reference number to be used)</p> <p>Proof of payment must accompany the application form:</p> <p>Tax exemption status: Status: Tax exempted</p>
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## Application for Amendment of Environmental Authorisation

### 2. APPLICATION DETAILS

Name of person to whom the environmental authorisation was issued:	Eskom Holdings SOC Limited		
Contact person:	Amy Harington		
Postal address:	P.O. Box 370, KLERKSDORP		
	Postal code: 2570		
Telephone:	018 464 6834	Cell:	074 190 7902
E-mail:	<a href="mailto:amy.harington@eskom.co.za">amy.harington@eskom.co.za</a>	Fax:	086 566 6309

Environmental Assessment Practitioner (EAP):	SiVEST SA (Pty) Ltd		
Contact person:	Shaun Taylor		
Postal address:	PO Box 2921, RIVONIA		
	Postal code: 2128		
Telephone:	011 798 0600	Cell:	072 779 4899
E-mail:	<a href="mailto:shaunt@sivest.co.za">shaunt@sivest.co.za</a>	Fax:	011 803 7272

EAP Qualifications:	BA – Geography and Environmental Science (Monash University) BSc (Hons) – Geography and Environmental Studies (University of Witwatersrand) MSc – Aquatic Health (University of Johannesburg)		
EAP Registrations/Associations:	South African Wetland Society		

#### Farm Austrey 403-IN

Name of landowner if the person to whom the environmental authorisation has been issued is not the owner:	Barolong Ba Ga Letlhogile Tlou Le Tau		
Contact person:	Office of the Traditional Council - Lesley		
Postal address:	P/Bag x507 Ganyesa		
	Postal code:	8613	
Telephone:	0539983305	Cell:	0796731166
E-mail:	Not available	Fax:	Not available
	In instances where there is more than one landowner, please attach a list of landowners with their contact details to the back of this page, together with copies of the notices given to these landowners about the amendment application.		
See <b>Appendix 2</b> – List of Landowners			

## Application for Amendment of Environmental Authorisation

Project Description:	<p>Eskom Holdings SOC Limited intends to develop a 132kV power line from the Mookodi Main Transmission Substation (MTS) to the new proposed Ganyesa Substation. Furthermore the construction of a 132kV/22kV Substation (referred to as Ganyesa Substation) and a Loop-in, Loop-out (LILO) power line between the new proposed Mookodi-Ganyesa 132kV power line and Havelock Substation is also required. An environmental authorisation (EA) was issued by the Department of Environmental Affairs (DEA) for the Mookodi Ganyesa 132kV power line and Ganyesa Substation on 02 February 2015 (DEA Ref No.: 14/12/16/3/3/1/680).</p> <p>An application for amendment of the Environmental Authorisation (EA) was submitted and received by the DEA on the 16<sup>th</sup> May 2017. Subsequently, the amendment application of the EA was granted on the 13<sup>th</sup> June 2017.</p> <p>The authorised substation location need to be corrected to the new location that falls within the assessed and authorised area. The details provided in the initial application for amendment of the EA received by the DEA on the 16<sup>th</sup> May 2017 were incorrect and therefore need to be amended once more.</p> <p>Additionally, as a result of recent requests from landowners, the power line alignment needs to be diverted in three (3) sections outside of the EA approved power line corridor to follow the boundaries of the affected landowner's properties. As such, amendment of the EA approved corridor is required.</p>
Farm name, Erf No., portion etc:	Portion 0 of the Farm Austrey No. 403-IN (See <b>Appendix 2</b> for full list of properties)
Physical address where authorised activity is taking or will take place:	Portion 0 of the Farm Austrey No. 403-IN, near Vryburg, North West Province (See <b>Appendix 2</b> for full list of properties)
Magisterial District or Town:	Naledi and Kagisano/Molopo Local Municipality and Dr. Ruth S. Mompoti District Municipality
Departmental reference number of the previous environmental authorisation in respect of which an amendment is applied for:	<p><b><u>Original Environmental Authorisation (2<sup>nd</sup> February 2015)</u></b>  NEAS Reference: DEA/EIA/0001402/2012  DEA Reference: 14/12/16/3/3/1/680</p> <p><b><u>Amended Environmental Authorisation (13<sup>th</sup> June 2017)</u></b>  DEA Reference: 14/12/16/3/3/1/680/AM1</p>
Date of issue of environmental authorisation:	02 February 2015
Activity/ies for which authorisation was granted:	GN R. 544: Item 10(i), 11(xi), 18(i), 24 GNR. 546: 4(ii)(aa)(ee)(gg), 12(b), 16(iv)(a)(ii)(aa)(ff)(hh)
<p><b>Please Note: A certified copy of the environmental authorisation must be attached to this application as Appendix 3.</b></p>	

## Application for Amendment of Environmental Authorisation

### 3. DETAILS OF IMPLEMENTATION OF PREVIOUS ENVIRONMENTAL AUTHORISATION

Was the activity commenced with during the validity period of the environmental authorisation? If yes, please describe the implementation of the previous environmental authorisation to date:		√ NO
The activity has not commenced to date.		

### 4. AMENDMENTS APPLIED FOR AND RELATED INFORMATION

Please indicate which of the following is relevant:

4.1. The holder of an environmental authorisation may at any time apply to the relevant competent authority for the amendment of the authorisation if:

(a) there is a material change in the circumstances which existed at the time of the granting of the environmental authorisation;	√ YES	
(b) there has been a change of ownership in the property and transfer of rights and obligations must be provided for; or		√ NO
(c) any detail contained in the environmental authorisation must be amended, added, substituted, corrected, removed or updated.	√ YES	

4.2. Describe the amendments that are being applied for:

An EA was issued by the DEA for the Mookodi Ganyesa 132kV power line and Ganyesa Substation on 02 February 2015 (DEA Ref No.: 14/12/16/3/3/1/680). An application for amendment of the Environmental Authorisation (EA) was submitted and received by the DEA on the 16<sup>th</sup> May 2017. Subsequently, the amendment application of the EA was granted on the 13<sup>th</sup> June 2017.

The authorised substation location needed to be corrected to a new location within the assessed and authorised area. The details of the substation location provided in the initial application for amendment of the EA received by the DEA on the 16<sup>th</sup> May 2017 were incorrect and therefore need to be amended once more as follows:

**From:**

Substation Alternative 2 (Preferred)	Latitude	Longitude
Centre point of activity	29° 26.698'	13° 44.030'

**To:**

Substation Alternative 2 (Preferred)	Latitude	Longitude
Centre point of activity	26° 29.528'	24° 13.733'

Additionally, as a result of recent requests from landowners, the power line alignment needs to be diverted in three (3) sections outside of the EA approved power line corridor to follow the boundaries of the affected landowner's properties. As such, amendment of the EA approved corridor is required. Refer to **Appendix 4** for a map showing the three (3) proposed deviations of the power line outside of the authorised EA power line corridor.

## Application for Amendment of Environmental Authorisation

4.3. Please provide the reasons and/or a motivation for the application for amendment:

As a result of negotiations with the affected landowners the power line alignment needs to be diverted in three (3) sections outside of the EA approved power line corridor to follow the boundaries of the affected landowner's properties.

4.4. Should the amendment being requested result due to 4.1 (b) above, you are requested to furnish the Department with a written undertaking that the new holder of the environmental authorisation is willing and able to assume responsibility of the environmental authorisation issued. Provide a short motivation and explanation below:

Not applicable.

### 5. ENVIRONMENTAL IMPACTS

5.1. Describe any negative environmental impacts that may occur if the application for amendment is granted, amongst others information on any increases in air emissions, waste generation, discharges to water and impacts of the natural or cultural environment must be included.

No additional negative environmental impacts will occur if the application for amendment is granted to amend the details of the substation location. All specialists that undertook the original environmental assessments for the Basic Assessment Report were consulted to obtain their opinion on whether there will be any change or increase in the potential impacts anticipated for the proposed new Ganyesa substation location. All the specialists have confirmed that the findings in their original reports hold true and that no change or increase in the potential impacts are anticipated with regards to the relocation of the environmentally approved Ganyesa substation.

Specialists were also consulted to ascertain if there would be any change or new impacts associated with the three (3) deviated power line corridors outside of the EA approved corridor to those identified in the original Basic Assessment process. No new or change in impacts were determined for the following specialist studies:

- Soils and Agricultural Potential Study;
- Biodiversity (Flora and Fauna) Study;
- Geotechnical Assessment Study;
- Heritage Study;
- Social Study; and
- Visual Study.

However, it was determined that there would be a change in severity of impacts for the following two specialist aspects:

- Geohydrology Study; and
- Surface Water (wetlands) Study.

All specialist letters and details thereto in relation to the above can be found in **Appendix 5**.

5.2. Describe any negative environmental impacts that may occur if the application for amendment is **not** granted.

There will be no negative environmental impacts if the amendment application is not approved.

However, if the application for amendment is not granted, the proposed development cannot proceed and the benefits of the project for providing and increasing electricity capacity will not be realised.

5.3. Describe any positive environmental impacts that may occur if the application for amendment is granted, amongst others information on any reduction in the ecological footprint, air emissions, waste generation and discharges to water must be included.



## Application for Amendment of Environmental Authorisation

The proposed amendment will have a positive impact with regards to the project as a whole, as the project will be allowed to commence. As such, the positive impacts on the economy and of employment creation will be able to be realised.

### 6. AUTHORISATION FROM OTHER GOVERNMENT DEPARTMENTS

6.1. Are any permission, licenses or other authorisations required from any other departments before the requested amendments can be effected?

✓ NO

If yes, please complete the table below.

Name of department and contact person	Authorisation required	Authorisation applied for (Yes/ No)
N/A		

### 7. RIGHTS OR INTERESTS OF OTHER PARTIES

In your opinion, will this proposed amendment adversely affect the rights and interests of other parties?

✓ NO

The proposed amendment will not affect the rights of interested and affected parties. The proposed relocation of the Ganyesa substation is expected to positively affect the rights and interests of the directly affected landowners, by resulting in less disturbance to the landowner's farm. The landowner has been notified of the amendment application (refer to **Appendix 6**), wherein their rights and interests have been addressed.

**NOTE: The Department is entitled to request further information if it believes it is necessary for the consideration of the application. If the application is for a substantive amendment or if the rights or interests of other parties are likely to be adversely affected, the Department will instruct the applicant to conduct a public participation process and to conduct any investigations and assessments that it deems necessary.**

Application for Amendment of Environmental Authorisation

**8. DECLARATION:**

I, **Amy Harington**, declare that I will comply with all my legal obligations in terms of this application and provide accurate information to everyone concerned in respect to this application.

Signature of the applicant:



**Eskom Holdings SOC Limited**

Name of company or organisation:

Date: 26/06/2017

Application for Amendment of Environmental Authorisation

**APPENDIX 1  
PROOF OF PAYMENT/ MOTIVATION FOR EXCLUSION**

**NOT APPLICABLE**

**The applicant and holder of the authorisation is Eskom Holdings SOC Limited**

**APPENDIX 2  
LIST OF LANDOWNERS**

Portion 2 Gras Vlakte 589-IN

Name of landowner if the person to whom the environmental authorisation has been issued is not the owner:	Frederik Bouwer		
Contact person:	Frederik Bouwer		
Postal address:	P O Box 2074		
	Vryburg		
	Postal code: 8600		
Telephone:	053 982 1111	Cell:	082 945 7902
E-mail:	Not available	Fax:	053 982 1111

Portion 1 Warrants Vlakte 590-IN

Name of landowner if the person to whom the environmental authorisation has been issued is not the owner:	Jan Hendrik Du Plessis		
Contact person:	Jan Hendrik Du Plessis		
Postal address:	28 Stella Street		
	Vryburg		
	Postal code: 8601		
Telephone:	053 927 4466	Cell:	076-822-2383
E-mail:	Not available	Fax:	053 927 4466

Portion 1 Goedverwacht 595-IN

Name of landowner if the person to whom the environmental authorisation has been issued is not the owner:	Jan Hendrik Du Plessis		
Contact person:	Jan Hendrik Du Plessis		
Postal address:	28 Stella Street		
	Vryburg		
	Postal code: 8601		
Telephone:	053 927 4466	Cell:	076-822-2383
E-mail:	Not available	Fax:	053 927 4466

Portion 3 Vyflings Pan 598-IN

Name of landowner if the person to whom the environmental authorisation has been issued is not the owner:	Ernst Jonker		
Contact person:	Ernst Jonker		
Postal address:	P O Box 935		
	Vryburg		
	Postal code: 8600		
Telephone:	Not available	Cell:	082 334 6449
E-mail:	<a href="mailto:ernstj@truevb.co.za">ernstj@truevb.co.za</a>	Fax:	Not available

Portion 1 Mooifontein 603-IN

Name of landowner if the person to whom the environmental authorisation has been issued is not the owner:	Hendrik Van Eck		
Contact person:	Hendrik Van Eck		
Postal address:	P O Box 232		
	Vryburg		
	Postal code: 8600		
Telephone:	053 927 3918	Cell:	Not available
E-mail:	Not available	Fax:	033 427 3918

Portion 4 Mooifontein 603-IN

Name of landowner if the person to whom the environmental authorisation has been issued is not the owner:	Gergardus Badenhorst		
Contact person:	Gergardus Badenhorst		
Postal address:	P O Box 390		
	Schweizer-Renecke		
	Postal code: 2780		
Telephone:	053 963 2252	Cell:	082 445 1548
E-mail:	Not available	Fax:	053 963 2252

Shamrock 601-IN

Name of landowner if the person to whom the environmental authorisation has been issued is not the owner:	Louise Niemann		
Contact person:	Louise Niemann		
Postal address:	P O Box 2039		
	Vryburg		
	Postal code: 8600		
Telephone:	053 970 4011	Cell:	082-338-8443
E-mail:	Not available	Fax:	053 697 0401

Remainder Sans Souci 602-IN

Name of landowner if the person to whom the environmental authorisation has been issued is not the owner:	Mr. Fyfer		
Contact person:	Mr. Fyfer		
Postal address:	P O Box 895		
	Vryburg		
	Postal code: 8601		
Telephone:	Not available	Cell:	082-935-0216
E-mail:	Not available	Fax:	Not available

Portion 1 Sans Souci 602-IN

Name of landowner if the person to whom the environmental authorisation has been issued is not the owner:	Andrew Brink		
Contact person:	Andrew Brink		
Postal address:	5 Du Toit Street		
	Vryburg		
	Postal code: 8601		
Telephone:	Not available	Cell:	083-385-2085
E-mail:	Not available	Fax:	Not available

Remainder Harbro 527-IN

Name of landowner if the person to whom the environmental authorisation has been issued is not the owner:	Lukas Johannes Van Der Nest		
Contact person:	Lukas Johannes Van Der Nest		
Postal address:	P O Box 35		
	Vryburg		
	Postal code: 8600		
Telephone:	053 972 2502	Cell:	082 574 4220
E-mail:	Not available	Fax:	Not available

Portion 1 Harbro 527-IN

Name of landowner if the person to whom the environmental authorisation has been issued is not the owner:	Louis Coetzee		
Contact person:	Louis Coetzee		
Postal address:	P O Box 431		
	Vryburg		
	Postal code: 8600		
Telephone:	053 972 2502	Cell:	082-386-8841
E-mail:	Not available	Fax:	053 972 2502

Portion 2 Harbro 527-IN

Name of landowner if the person to whom the environmental authorisation has been issued is not the owner:	Johannes Marthinus Van Der Merwe		
Contact person:	Johannes Marthinus Van Der Merwe		
Postal address:	P O Box 103		
	Vryburg		
	Postal code: 8600		
Telephone:	014 592 8833	Cell:	072 141 5628
E-mail:	Not available	Fax:	072 141 5628



Remainder Swellendam 525-IN

Name of landowner if the person to whom the environmental authorisation has been issued is not the owner:	Willem Scholtz		
Contact person:	Willem Scholtz		
Postal address:	P O Box 232		
	Vyrburg		
	Postal code: 8600		
Telephone:	053 973 2118	Cell:	082-338-4704
E-mail:	<a href="mailto:vaallagte@wam.co.za">vaallagte@wam.co.za</a>	Fax:	053 972 2222

Portions 3 & 5 Swellendam 525-IN

Name of landowner if the person to whom the environmental authorisation has been issued is not the owner:	Danie Kuhn		
Contact person:	Danie Kuhn		
Postal address:	P O Box 2402		
	Vryburg		
	Postal code: 8600		
Telephone:	Not available	Cell:	082-524-8567
E-mail:	Not available	Fax:	Not available

Portion 4 Swellendam 525-IN

Name of landowner if the person to whom the environmental authorisation has been issued is not the owner:	Johannes Hayward		
Contact person:	Johannes Hayward		
Postal address:	P O Box 2423		
	Vryburg		
	Postal code: 8600		
Telephone:	053 927 3322	Cell:	082 825 2190
E-mail:	<a href="mailto:jehaywarde@truevb.co.za">jehaywarde@truevb.co.za</a> or <a href="mailto:hayward.riana@gmail.com">hayward.riana@gmail.com</a>	Fax:	053 927 3322

Bosch Pan 526-IN

Name of landowner if the person to whom the environmental authorisation has been issued is not the owner:	Danie Kuhn		
Contact person:	Danie Kuhn		
Postal address:	P O Box 2402		
	Vryburg		
	Postal code: 8600		
Telephone:	Not available	Cell:	082-524-8567
E-mail:	Not available	Fax:	Not available

Taungs 465-IN

Name of landowner if the person to whom the environmental authorisation has been issued is not the owner:	Andries Theunissen		
Contact person:	Andries Theunissen		
Postal address:	P O Box 2362		
	Vryburg		
	Postal code: 8600		
Telephone:	Not available	Cell:	082 550 6796
E-mail:	Not available	Fax:	Not available

Portion 2 Taungs 465-IN

Name of landowner if the person to whom the environmental authorisation has been issued is not the owner:	Johannes Theunissen		
Contact person:	Johannes Theunissen		
Postal address:	P O Box 2133		
	Vryburg		
	Postal code: 8600		
Telephone:	Not available	Cell:	0828992737
E-mail:	Not available	Fax:	Not available

Portion 9 Ganyesa 443-IN

Name of landowner if the person to whom the environmental authorisation has been issued is not the owner:	Barolong Ba Ga Lethogile Tlou Le Tau		
Contact person:	Office of the Traditional Council - Lesley		
Postal address:	P/Bag x507		
	Ganyesa		
	Postal code:	8613	
Telephone:	053 998 3305	Cell:	079 888 2947
E-mail:	Not available	Fax:	Not available

Ganyesa A1006-IN

Name of landowner if the person to whom the environmental authorisation has been issued is not the owner:	Barolong Ba Ga Lethogile Tlou Le Tau		
Contact person:	Office of the Traditional Council - Lesley		
Postal address:	P/Bag x507		
	Ganyesa		
	Postal code:	8613	
Telephone:	053 998 3305	Cell:	079 888 2947
E-mail:	Not available	Fax:	Not available

Application for Amendment of Environmental Authorisation

**APPENDIX 3**  
**CERTIFIED COPY OF ENVIRONMENTAL AUTHORISATION**



## environmental affairs

Department:  
Environmental Affairs  
REPUBLIC OF SOUTH AFRICA

Private Bag X 447· PRETORIA · 0001· Environment House 473 Steve Biko Road, Arcadia, Pretoria  
Tel (+ 27 12) 399 9372

NEAS Reference: DEA/EIA/0001402/2012

DEA Reference: 14/12/16/3/3/1/680

Enquiries: Ndivhudza Sebei

Telephone: 012-399-9408 E-mail: Nsebei@environment.gov.za

Ms Blondie Moukangwe  
Eskom Holdings SOC Limited  
P.O. Box 242  
KLERKSDORP  
2570

Tel: 018 464 6691  
Fax: 086 662 3952  
E-mail: moukanmb@eskom.co.za

### PER FACSIMILE / MAIL

Dear Ms Moukangwe

### ENVIRONMENTAL AUTHORISATION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, 1998: GN R. 543, 544 AND 546: MOOKODI INTEGRATION PHASE 2: PROPOSED CONSTRUCTION OF THE MOOKODI-GANYESA 132kV POWER LINE, NEW PROPOSED GANYESA SUBSTATION, AND HAVELOCK LILO, NORTH WEST PROVINCE.

With reference to the above application, please be advised that the Department has decided to grant authorisation. The environmental authorisation (EA) and reasons for the decision are attached herewith.

In terms of regulation 10(2) of the Environmental Impact Assessment Regulations, 2010 (the Regulations), you are instructed to notify all registered interested and affected parties, in writing and within 12 (twelve) days of the date of the EA, of the Department's decision in respect of your application as well as the provisions regarding the submission of appeals that are contained in the Regulations.

Your attention is drawn to Chapter 7 of the Regulations, which prescribes the appeal procedure to be followed. This procedure is summarised in the attached document. Kindly include a copy of this document with the letter of notification to interested and affected parties.

Should the applicant or any other party wish to appeal any aspect of the decision a notice of intention to appeal must be lodged by all prospective appellants with the Minister, within 20 days of the date of the EA, by means of one of the following methods:

By post: Private Bag X 447,  
Pretoria, 0001; or

By hand: Environment House  
437 Steve Biko Road  
Arcadia  
Pretoria

Certified true copy of Original  
Gesertifiseerde afskrif van Oorspronklike  
*Laurens Jansen van Rensburg* 9/05/2017  
LAURENS JANSEN VAN RENSBURG O(SA)  
Posbus 242, Klerksdorp, 2570

Commissioner of Oaths.  
Kommissaris van Ede  
for the Republic of South Africa  
In terms of Section 6 (para 54) of the  
Justice of the Peace and Commissioners  
of Oaths Act 18/1983

If the applicant wishes to lodge an appeal, it must also serve a copy of the notice of intention to appeal on all registered interested and affected parties as well as a notice indicating where, and for what period, the appeal submission will be available for inspection, should you intend to submit an appeal.

Please include the Department (*Attention: Director: Integrated Environmental Authorisations*) in the list of interested and affected parties, notified through your notification letter to interested and affected parties, for record purposes.

**Appeals must be submitted in writing to:**

Mr Z Hassam Director: Appeals and Legal Review, of this Department at the above mentioned addresses or fax number. Mr Hassam can also be contacted at:

Tel: 012-399-9356

Email: [AppealsDirectorate@environment.gov.za](mailto:AppealsDirectorate@environment.gov.za)

The authorised activities shall not commence within twenty (20) days of the date of signature of the authorisation. Further, please note that in terms of section 43(7) of the National Environmental Management Act, 1998, an appeal under section 43 of that Act will suspend the environmental authorisation or any provision or condition attached thereto. In the instance where an appeal is lodged, you may not commence with the activity until such time that the appeal is finalised.

Yours faithfully



**Mr Sabelo Malaza**

**Chief Director: Integrated Environmental Authorisations  
Department of Environmental Affairs**

Date: 2/2/2015

CC:	Ms R Thomas	SIVEST (Pty) Ltd.	Tel: 011-798-0600	Email: <a href="mailto:rebeccat@sivest.co.za">rebeccat@sivest.co.za</a>
	Mr S Mukhola	North West DEDECT	Tel: 018-389-5959	Email: <a href="mailto:smukhola@nwpg.gov.za">smukhola@nwpg.gov.za</a>
	Ms I Botha	Naledi Local Municipality	Tel: 053-928-2217	Email: <a href="mailto:inabotha@naledi.gov.za">inabotha@naledi.gov.za</a>
	Mr M Mofokeng	Kagisano/Molopo Local Municipality	Tel: 053-994-9418	Email: <a href="mailto:mofokengm@taunglm.co.za">mofokengm@taunglm.co.za</a>

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LAURENS JANSSEN VAN RENSBURG O(SA)  
Posbus 242, Klerksdorp, 2570

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**APPEALS PROCEDURE IN TERMS OF CHAPTER 7 OF THE NEMA EIA REGULATIONS, 2010 (THE REGULATIONS) AS PER GN R. 543 OF 2010 TO BE FOLLOWED BY THE APPLICANT AND INTERESTED AND AFFECTED PARTIES UPON RECEIPT OF NOTIFICATION OF AN ENVIRONMENTAL AUTHORISATION (EA)**

<b>APPLICANT</b>	<b>INTERESTED AND AFFECTED PARTIES (IAPs)</b>
1. Receive EA from the relevant Competent Authority (the Department of Environmental Affairs [DEA]).	1. Receive EA from Applicant/Consultant.
2. Within 12 days of date of the EA notify all IAPs of the EA and draw their attention to their right to appeal against the EA in terms of Chapter 7 of the Regulations.	2. N/A.
3. If you want to appeal against the EA, submit a notice of intention to appeal within 20 days of the date of the EA with the Minister of Environmental Affairs (the Minister).	3. If you want to appeal against the EA, submit a notice of intention to appeal within 20 days of the date of the EA. with the Minister of Environmental Affairs (the Minister).
4. After having submitted your notice of intention to appeal to the Minister, provide each registered IAP with a copy of the notice of intention to appeal within 10 days of lodging the notice.	4. After having submitted your notice of intention to appeal to the Minister, provide the applicant with a copy of the notice of intention to appeal within 10 days of lodging the notice.
5. The Applicant must also serve on each IAP: <ul style="list-style-type: none"> <li>a notice indicating where and for what period the appeal submission will be available for inspection.</li> </ul>	5. Appellant must also serve on the Applicant within 10 days of lodging the notice, <ul style="list-style-type: none"> <li>a notice indicating where and for what period the appeal submission will be available for inspection by the applicant.</li> </ul>
6. The appeal must be submitted in writing to the Minister within 30 days after the lapsing of the period of 20 days provided for the lodging of the notice of intention to appeal.	6. The appeal must be submitted to the Minister within 30 days after the lapsing of the period of 20 days provided for the lodging of the notice of intention to appeal.
7. Any IAP who received a notice of intention to appeal may submit a responding statement to that appeal to the Minister within 30 days from the date that the appeal submission was lodged with the Minister.	7. An Applicant who received notice of intention to may submit a responding statement to the appeal to the Minister within 30 days from the date that the appeal submission was lodged with the Minister.

**NOTES:**

1. An appeal must be:-
  - a) submitted in writing;
  - b) accompanied by:
    - a statement setting out the grounds of appeal;
    - supporting documentation which is referred to in the appeal; and
    - a statement that the appellant has complied with regulation 62 (2) or (3) together with copies of the notices referred to in regulation 62.

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 JOURENS JANSEN VAN RENSBURG O(SA)  
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## environmental affairs

Department:  
Environmental Affairs  
REPUBLIC OF SOUTH AFRICA

# Environmental Authorisation

In terms of regulation 36 of the Environmental Impact Assessment Regulations, 2010

Mookodi Integration Phase 2: Construction of the Mookodi-Ganyesa 132kV power line, new proposed Ganyesa Substation, and Havelock LILO, North West Province

Dr Ruth Segomotsi Mompati District Municipality

<b>Authorisation register number:</b>	14/12/16/3/3/1/680
<b>NEAS reference number:</b>	DEA/EIA/0001402/2012
<b>Last amended:</b>	First issue
<b>Holder of authorisation:</b>	Eskom Holdings SOC Limited
<b>Location of activity:</b>	NORTH WEST PROVINCE: Within the Naledi Local Municipality and Kagisano/Molopo Local Municipality

This authorisation does not negate the holder of the authorisation's responsibility to comply with any other statutory requirements that may be applicable to the undertaking of the activity.

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LAURENS JANSEN VAN RENSBURG O(SA)  
Posbus 242, Klerksdorp, 2570

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## Decision

The Department is satisfied, on the basis of information available to it and subject to compliance with the conditions of this environmental authorisation, that the applicant should be authorised to undertake the activities specified below.

Non-compliance with a condition of this authorisation may result in criminal prosecution or other actions provided for in the National Environmental Management Act, 1998 and the EIA regulations.

Details regarding the basis on which the Department reached this decision are set out in Annexure 1.

## Activities authorised

By virtue of the powers conferred on it by the National Environmental Management Act, 1998 (Act 107 of 1998) and the Environmental Impact Assessment Regulations, 2010 the Department hereby authorises –

### ESKOM HOLDINGS SOC LIMITED

with the following contact details –

Ms Blondie Moukangwe  
Eskom Holdings SOC Limited  
P.O. Box 242  
**KLERKSDORP**  
2570

Tel: 018 464 6691  
Fax: 086 662 3952  
E-mail: moukanmb@eskom.co.za

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*Johan Rensburg 8/09/2017*  
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LOURENS JANSSEN VAN RENSBURG O(SA)  
Posbus 242, Klerksdorp, 2570  
Commissioner of Oaths  
Kommissaris van Ede  
for the Republic of South Africa  
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to undertake the following activities (hereafter referred to as "the activity") indicated in Listing Notices 1 and 3 (GN R. 544 & 546):

Listed activities	Activity/Project description
<p><u>GN R.544 Item 10 :</u>                      The construction of facilities or infrastructure for the transmission and distribution of electricity –                      (i) Outside urban areas or industrial complexes with a capacity of more than 33 but less than 275 kilovolts</p>	<p>Eskom is proposing to develop a 132 kV power line, which is located outside an urban area.</p>
<p><u>GN R.544 Item 11 :</u>                      The construction of:                      (xi) infrastructure or structures covering 50 square metres or more 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.</p>	<p>The proposed corridor alternatives traverse several watercourses. The construction will occur within 32 meters of the watercourse.</p>
<p><u>GN R.544 Item 18:</u>                      The infilling or depositing of any material of more than 5 cubic metres into, or the dredging, excavation, removal or moving of soil, sand, shells, shell grit, pebbles or rock from                      (i) a watercourse; but excluding where such infilling, depositing, dredging, excavation, removal or moving;                      (a) is for maintenance purposes undertaken in accordance with a management plan agreed to by the relevant environmental authority; or                      (b) occurs behind the development setback line.</p>	<p>The proposed corridor alternatives traverse several watercourses. Depending on the alignment of the power line within the authorised corridor, construction will occur within these watercourses. It is possible that construction activities will result in the removal or moving of material from these watercourses.</p>
<p><u>GN R.544 Item 24 :</u>                      The transformation of land bigger than 1000 square metres in size, to residential, retail , commercial, industrial or institutional use, where, at the time of the coming into effect of this schedule or thereafter such land was zoned open space, conservation or had an equivalent zoning.</p>	<p>The cumulative area of the land that will be transformed, due to the proposed tower structures will be greater than 1000 square metres in size- some of which may be zoned open space, conservation or have an equivalent zoning.</p>
<p><u>GN R.546 Item 4 :</u></p>	<p>Access roads will be required. One route</p>

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 LORENS JANSEN VAN RENSBURG O(SA)  
 Posbus 242, Klerkadorp, 2570  
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Listed activities	Activity/Project description
<p>The construction of a road wider than 4 metres with a reserve less than 13,5 metres.</p> <p>(ii) Outside urban areas, in:</p> <p>(aa) A protected area identified in terms of NEMPAA, excluding conservancies;</p> <p>(ee) Critical biodiversity areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans;</p> <p>(gg) Areas within 10 kilometres from national parks or world heritage sites or 5 kilometres from any other protected area identified in terms of NEMPAA or from a biosphere reserve.</p>	<p>alternative passes through the Leon Taljaard Nature Reserve and all three route alternatives pass within 5kms of this protected area. All three route alternatives pass through critical biodiversity areas.</p>
<p><u>GN R.546 Item 12:</u></p> <p>The clearance of an area of 300 square metres or more of vegetation where 75% or more of the vegetative cover constitutes indigenous vegetation.</p> <p>(b) Within critical biodiversity areas identified in bioregional plans.</p>	<p>Vegetation would need to be cleared for the proposed substation. All three route alternatives pass through critical biodiversity areas.</p>
<p><u>GN R.546 Item 16:</u></p> <p>The construction of:</p> <p>(iv) infrastructure covering 10 square metres or more 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.</p> <p>(a) In North West:</p> <p>(ii) Outside urban areas, in:</p> <p>(aa) A protected area identified in terms of NEMPAA, excluding conservancies;</p> <p>(ff) Critical biodiversity areas or ecosystem service areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional</p>	<p>The proposed corridor alternatives traverse several watercourses. Depending on the alignment of the power line within the authorised corridor, construction will occur within 32 meters of these watercourses. One route alternative passes through the Leon Taljaard Nature Reserve and all three route alternatives pass within 5kms of this protected area. All three route alternatives pass through critical biodiversity areas.</p>

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*Lauren Jansen van Rensburg* 8/05/2017  
 LOURENS JANSEN VAN RENSBURG O(SA)  
 Posbus 242, Klerksdorp, 2570

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Listed activities	Activity/Project description
plans. (hh) Areas within 10 kilometres from national parks or world heritage sites or 5 kilometres from any other protected area identified in terms of NEMPAA or from the core areas of a biosphere reserve.	

as described in the Basic Assessment Report (BAR) dated 06 November 2014 at:

Substation Alternative 2 (Preferred)	Latitude	Longitude
Centerpoint of activity	26° 29. 673'	24° 14. 454'

Power line Route Alternative 1 (Preferred)	Latitude	Longitude
Starting point of activity	27° 0. 591'	24° 44. 546'
Middle point of activity	26° 48. 815'	24° 20. 030'
End point of activity (TM2)	26° 27. 547'	24° 16. 597'

- for the construction of a 132kV power line from the existing Mookodi Substation to the proposed Ganyesa Substation, and Havelock LILO, within the Naledi Local Municipality and Kagisano/ Molopo Local Municipality, in the Dr. Ruth Segomotsi Mompati District Municipality, North West Province, hereafter referred to as "the property".

Infrastructure associated with the proposed development will include:

- Construction of a 132kV/22kV Substation (referred to as Ganyesa Substation).
- Construction of a 132kV power line from the Mookodi MTS to the new proposed Ganyesa Substation.
- Construction of a 132kV LILO power line between the new proposed Mookodi-Ganyesa 132kV power line and Havelock Substation.
- Construction of an access track along the power line servitude.
- Construction of associated infrastructure which includes the following:
  - Upgrades to existing access roads, as required; and
  - Upgrades to Mookodi Substation, as required (e.g. transformers of busbar extensions)

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 Posbus 242, Klerksdorp, 2570

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The power line will consist of a series of towers located approximately 200m apart. It is proposed that the steel monopole tower type; i.e. Eskom, D-DT 7649, that is bird-friendly, would be used for the proposed power line in combination with other towers, for instance the guyed steel lattice tower types at bend points and where greater distances need to be spanned. The steel monopole tower type is between 18 and 25m in height and each tower will have a footprint of between 0.8m<sup>2</sup> and 1.2m<sup>2</sup> (without stays).

## Conditions of this Environmental Authorisation

### Scope of authorisation

1. The preferred route corridor Alternative 1 for the construction of a 132kV power line from the existing Mookodi Substation to the proposed Ganyesa Substation (Preferred Alternative 2), and Havelock LILO, within the Naledi Local Municipality and Kagisano/ Molopo Local Municipality, in the Dr. Ruth Segomotsi Mompati District Municipality, North West Province, with the above-mentioned co-ordinates as indicated in the final BAR dated 06 November 2014 is hereby authorised.
2. Authorisation of the activity is subject to the conditions contained in this authorisation, which form part of the environmental authorisation and are binding on the holder of the authorisation.
3. The holder of the authorisation is responsible for ensuring compliance with the conditions contained in this environmental authorisation. This includes any person acting on the holder's behalf, including but not limited to, an agent, servant, contractor, sub-contractor, employee, consultant or person rendering a service to the holder of the authorisation.
4. The activities authorised may only be carried out at the property as described above.
5. Any changes to, or deviations from, the project description set out in this authorisation must be approved, in writing, by the Department before such changes or deviations may be effected. In assessing whether to grant such approval or not, the Department may request such information as it deems necessary to evaluate the significance and impacts of such changes or deviations and it may be necessary for the holder of the authorisation to apply for further authorisation in terms of the regulations.
6. This activity must commence within a period of five (5) years from the date of issue of this authorisation. If commencement of the activity does not occur within that period, the authorisation

*Juan Rensburg* 8/05/2017  
LOURENS JANSSEN VAN RENSBURG O(SA)  
Roshua 242, Klerksdorp, 2570

lapses and a new application for environmental authorisation must be made in order for the activity to be undertaken.

7. If the applicant anticipates that commencement of the activities would not occur within five (5) year period, he/she must apply and show good cause for an extension of the Environmental Authorisation six (6) months prior to its expiry date.
8. Commencement with one activity listed in terms of this authorisation constitutes commencement of all authorised activities.
9. The holder of an environmental authorisation must notify the competent authority of any alienation, transfer and change of ownership rights in the property on which the activity is to take place.

#### **Notification of authorisation and right to appeal**

10. The holder of the authorisation must notify every registered interested and affected party, in writing and within 12 (twelve) calendar days of the date of this environmental authorisation, of the decision to authorise the activity.
11. The notification referred to must –
  - 11.1. specify the date on which the authorisation was issued;
  - 11.2. inform the interested and affected party of the appeal procedure provided for in Chapter 7 of the Environmental Impact Assessment Regulations, 2010;
  - 11.3. advise the interested and affected party that a copy of the authorisation will be furnished on request; and
  - 11.4. give the reasons of the competent authority for the decision.
12. The holder of the authorisation must publish a notice –
  - 12.1. informing interested and affected parties of the decision;
  - 12.2. informing interested and affected parties where the decision can be accessed; and
  - 12.3. drawing the attention of interested and affected parties to the fact that an appeal may be lodged against this decision in the newspaper(s) contemplated and used in terms of regulation 54(2) (c) and (d) and which newspaper was used for the placing of advertisements as part of the public participation process.

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LAURENS JANSSEN VAN RENSBURG O(SA)  
Postbus 242, Klerksdorp, 2570

### Management of the activity

13. The Environmental Management Programme (EMPr) submitted as part of the Application for EA is hereby approved. This EMPr must be implemented and adhered to.
14. The EMPr must be included in all contract documentation for all phases of the development.
15. The provisions of the approved EMPr is considered an extension of the conditions of this EA and therefore noncompliance with them would constitute noncompliance with the EA.

### Monitoring

16. The applicant must appoint a suitably experienced independent Environmental Control Officer (ECO) for the construction phase of the development that will have the responsibility to ensure that the mitigation/rehabilitation measures and recommendations referred to in this authorisation are implemented and to ensure compliance with the provisions of the EMPr.
  - 16.1. The ECO must be appointed before commencement of any authorised activity/ies.
  - 16.2. Once appointed, the name and contact details of the ECO must be submitted to the *Director: Compliance Monitoring* of the Department.
  - 16.3. The ECO must keep record of all activities on site, problems identified, transgressions noted and a task schedule of tasks undertaken by the ECO.
  - 16.4. The ECO must remain employed until all rehabilitation measures, as required for implementation due to construction damage, are completed and the site is ready for operation.

### Recording and reporting to the Department

17. All documentation e.g. audit/monitoring/compliance reports and notifications, required to be submitted to the Department in terms of this authorisation, must be submitted to the *Director: Compliance Monitoring* at the Department.
18. The holder of the authorisation must submit an environmental audit report to the Department within 30 days of completion of the construction phase (i.e. within 30 days of site handover) and within 30 days of completion of rehabilitation activities.
19. The environmental audit report must indicate the date of the audit, the name of the auditor and the outcome of the audit in terms of compliance with the environmental authorisation conditions as well as the requirements of the EMPr.

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LAURENS JANSEN VAN RENSBURG O(SA)  
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20. Records relating to monitoring and auditing must be kept on site and made available for inspection to any relevant and competent authority in respect of this development.

#### Commencement of the activity

21. The authorised activity shall not commence within twenty (20) days of the date of signature of the authorisation.

22. In terms of section 43 (7) of the National Environmental Management Act (NEMA), Act 107 of 1998 (as amended), will suspend the environmental authorisation or any provision or condition attached thereto. In the instance where an appeal is lodged you may not commence with the activity until such time that the appeal has been finalised.

#### Notification to authorities

23. Fourteen (14) days written notice must be given to the Department that the activity will commence. Commencement for the purposes of this condition includes site preparation. The notice must include a date on which it is anticipated that the activity will commence, as well as a reference number. This notification period may coincide with the notice of intent to appeal period.

#### Operation of the activity

24. Fourteen (14) days written notice must be given to the Department that the activity operational phase will commence.

#### Site closure and decommissioning

25. Should the activity ever cease or become redundant, the applicant shall undertake the required actions as prescribed by legislation at the time and comply with all relevant legal requirements administered by any relevant and competent authority at that time.

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.....  
Lourens Jansen van Rensburg O(SA)  
Posbus 242, Klerksdorp, 2570

#### Specific conditions

26. An ecological specialist, avifaunal specialist, agricultural specialist and surface water specialist must be commissioned to perform a final walkthrough of the site once the final route alignment

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and tower positions have been identified. Recommendations must be made regarding the placement of towers and other infrastructure and must cover buffer identification, sensitive sites identification, no-go areas identification, fine scale mapping and site specific mitigation measures within the approved corridor. These specialist reports must be submitted to the Department for approval prior to construction. A layout plan indicating the final routing of the power line must also be submitted.

27. A heritage specialist must assess the footprint of each component of the infrastructure in order to determine whether any potentially significant heritage sites will be affected by the infrastructure. Recommendations must be made regarding the placement of towers and other infrastructure away from these sensitive areas, where possible. A Paleontological Impact Assessment must be compiled and submitted to the South African Heritage Resources Agency for approval prior to construction activities.
28. Anti-collision devices such as bird flappers must be installed where power line crosses avifaunal corridors. The input of an avifaunal specialist must be obtained for the fitting of the anti-collision devices onto specific sections of the line once the exact positions of the towers have been surveyed and pegged.
29. Construction areas must be clearly demarcated and only approved areas must be used for storage and cement mixing.
30. Any cement or concrete mixing must be done on an impervious surface to prevent soil contamination
31. Vegetation clearing must be kept to an absolute minimum. Mitigation measures must be implemented to reduce the risk of erosion and the invasion of alien species.
32. An integrated waste management approach must be implemented that is based on waste minimisation and must incorporate reduction, recycling, re-use and disposal. Any solid waste shall be disposed of at a landfill licensed in terms of section 20 (b) of the National Environment Management Waste Act, 2008 (Act 59 of 2008).

## General

33. A copy of this authorisation and the approved EMPr must be kept at the property where the activity/ will be undertaken. The authorisation and approved EMPr must be produced to any authorised official of the Department who requests to see it and must be made available for inspection by any employee or agent of the holder of the authorisation who works on the property at the property.

who works on the property  
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*Lothrens Jansen van Rensburg* 8/05/2017  
LOURENS JANSEN VAN RENSBURG O(SA)  
Postbus 242, Klorkadorp, 2670

34. The holder of the authorisation must notify both the *Director: Integrated Environmental Authorisations* and the *Director: Compliance Monitoring* at the Department, in writing and within 48 (forty eight) hours, if any condition of this authorisation cannot be or is not adhered to. Any notification in terms of this condition must be accompanied by reasons for the non-compliance.
35. National government, provincial government, local authorities or committees appointed in terms of the conditions of this authorisation or any other public authority shall not be held responsible for any damages or losses suffered by the applicant or his successor in title in any instance where construction or operation subsequent to construction be temporarily or permanently stopped for reasons of non-compliance by the applicant with the conditions of authorisation as set out in this document or any other subsequent document emanating from these conditions of authorisation.

Date of environmental authorisation: 2/2/2015



Mr Sabelo Malaza

**Chief Director: Integrated Environmental Authorisations**  
**Department of Environmental Affairs**

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*L. van Rensburg* 8/05/2017  
LAURENS JANSSEN VAN RENSBURG O(SA)  
Posbus 242, Klerksdorp, 2570

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## Annexure 1: Reasons for Decision

### 1. Information considered in making the decision

In reaching its decision, the Department took, *inter alia*, the following into consideration -

- a) The information contained in the final BAR dated 06 November 2014;
- b) The comments received from organs of state and interested and affected parties as included in the final BAR dated 06 November 2014;
- c) Mitigation measures as proposed in the BAR dated 06 November 2014 and the EMPr;
- d) The information contained in the specialist studies contained within Appendix D of the final BAR; and
- e) The objectives and requirements of relevant legislation, policies and guidelines, including section 2 of the National Environmental Management Act, 1998 (Act 107 of 1998).

### 2. Key factors considered in making the decision

All information presented to the Department was taken into account in the Department's consideration of the application. A summary of the issues which, in the Department's view, were of the most significance is set out below.

- a) The findings of all the specialist studies conducted and their recommended mitigation measures.
- b) The purpose for this proposed power line project is to improve the electricity supply in North West Province.
- c) The methodology used in assessing the potential impacts identified in the final BAR dated 06 November 2014 and the specialist studies have been adequately indicated.
- d) A sufficient public participation process was undertaken and the applicant has satisfied the minimum requirements as prescribed in the EIA Regulations, 2010 for public involvement.

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LAURENS JANSEN VAN RENSBURG O(SA)  
Posbus 242, Kierkedorp, 2570

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### 3. Findings

After consideration of the information and factors listed above, the Department made the following findings -

- a) The identification and assessment of impacts are detailed in the final BAR dated 06 November 2014 and sufficient assessment of the key identified issues and impacts have been completed.
- b) The procedure followed for impact assessment is adequate for the decision-making process.
- c) The proposed mitigation of impacts identified and assessed adequately curtails the identified impacts.
- d) EMPr measures for the pre-construction, construction and rehabilitation phases of the development were proposed and included in the BAR and will be implemented to manage the identified environmental impacts during the construction process.

In view of the above, the Department is satisfied that, subject to compliance with the conditions contained in the environmental authorisation, the proposed activity will not conflict with the general objectives of integrated environmental management laid down in Chapter 5 of the National Environmental Management Act, 1998 and that any potentially detrimental environmental impacts resulting from the proposed activity can be mitigated to acceptable levels. The environmental authorisation is accordingly granted.

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LAWRENS JANSSEN VAN RENSBURG O(SA)  
Posbus 242, Klerksdorp, 2570

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**APPENDIX 4**  
**MAP OF THE THREE (3) PROPOSED POWER LINE DEVIATION SECTIONS AND SUBSTATION**  
**LOCATION**

# MOOKODI INTEGRATION PHASE 2



## PROPOSED 132kV LINE MOOKODI MTS TO PROPOSED GANYESA SUBSTATION

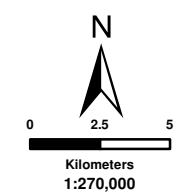
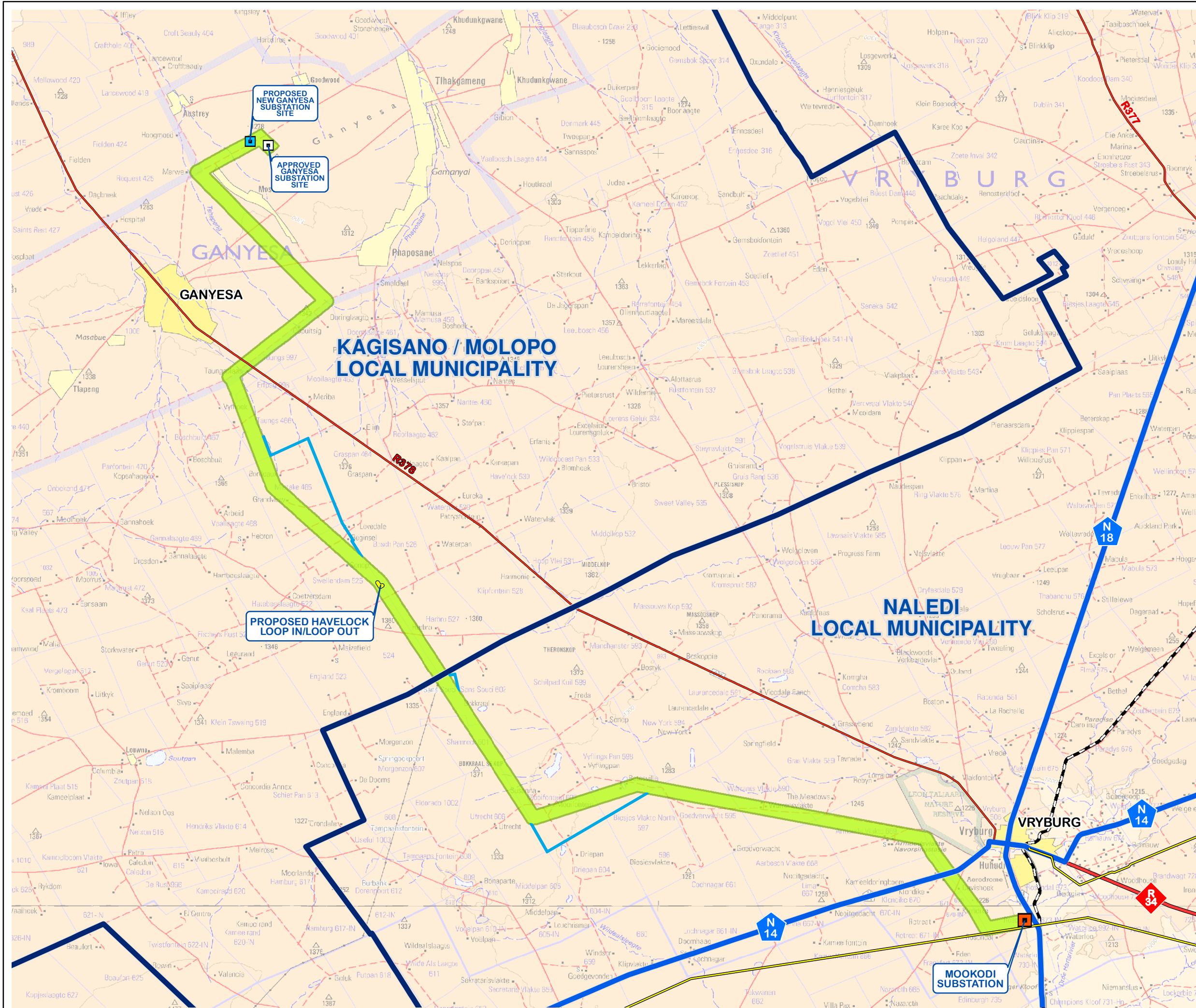
### PROPOSED CORRIDOR AND SUBSTATION AMENDMENTS

#### Legend

-  Local Municipal Boundaries
-  National Routes
-  Main Arterial Routes
-  Main Roads
-  Other Roads
-  Railway Line
-  Existing High Voltage Power Lines (88, 132 and 400kV)
-  Main Urban Areas
-  Existing Substation
-  Approved Substation Site
-  Approved Corridor (1km Wide)

#### Proposed Amendments

-  Proposed New Substation Site
-  Proposed Corridor Deviations (100m wide)



**SIVEST**  
**ENVIRONMENTAL DIVISION**  
 51 WESSELS ROAD  
 RIVONIA, 2128  
 JOHANNESBURG  
 SOUTH AFRICA  
 Phone: +27 11 798 0600  
 Fax: +27 11 803 7272  
 e-mail: info@sivest.co.za

<b>Project No</b> 13993	<b>Prepared By</b> KLS	<b>Date</b> 13/04/2017
<b>Map Ref No</b> 13993/01	<b>Revision</b> 0	<b>Date</b>

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THIS MAP HAS BEEN PREPARED UNDER THE CONTROLS ESTABLISHED BY THE SIVEST QUALITY MANAGEMENT SYSTEM WHICH HAS BEEN CERTIFIED ISO 9001:2008 COMPLIANT

**APPENDIX 5  
SPECIALIST LETTERS**



Simon Todd Pr.Sci.Nat  
C: 082 3326502  
O: 021 782 0377  
Simon.Todd@3foxes.co.za  
60 Forrest Way  
Glencairn  
7975

Ecological Solutions for  
People & the Environment

Simon Todd  
60 Forrest Way  
Glencairn  
7975

SiVEST Environmental Division  
51 Wessel Road  
PO Box 2921  
Rivonia  
7975  
Att: Andrea Gibb

04 May 2017

**AMENDMENTS FOR THE AUTHORISED MOOKODI GANYESA PROJECT NEAR VRYBURG, NORTH WEST PROVINCE (DEA REF. NO.: 14/12/16/3/3/1/680)**

This statement letter is in reference to the proposed Mookodi Ganyesa Power Line in the North West Province. An environmental authorisation (EA) was issued by the Department of Environmental Affairs (DEA) for this project in February 2015. However, as a result of negotiations with landowners, Eskom need to deviate three (3) sections of the assessed and authorised power line corridor.

SiVEST have been appointed to undertake the required process in order to obtain authorisation for the unassessed sections of the power line route. As part of these activities, SiVEST have requested a statement from Simon Todd Consulting, as the original ecological specialist on the Mookodi Ganyesa Power Line, with regards to the power line deviations and the impact of the new sections in comparison with the original preferred route.

I have reviewed the deviated sections of the power line, which amount to approximately 26.5km of line outside of the original corridor. Particular attention was paid to the presence of features of concern along the new deviations and the potential of the deviations to generate greater impact than the original previously assessed sections. After reviewing the deviations and comparing them to the original sections of my report (titled The proposed Mookodi Ganyesa Phase 2 132kV power lines and Ganyesa Substation near Vryburg, North West Province: Fauna and Flora Specialist Basic Assessment report dated August 2014) I have reached the following conclusions with regards to the changes to the Mookodi Ganyesa Power Line:

- The deviated sections of the line are not significantly different from the original corridor sections in terms of the presence of features and habitats of conservation concern.
- As such, the proposed deviations would not significantly increase the impact of the power line compared to the original assessed route.
- The ecological impacts associated with the deviations are similar to the original corridor sections, the significance of assessed impacts for the original approved corridor and the new deviations are



similar and as such, the impacts as assessed in the ecological study are equally applicable to the line with the deviated sections included.

- The mitigation and avoidance measures as detailed in the ecological study are equally applicable and sufficient with regards to the deviated sections and no additional or new mitigation measures are recommended.

Should you have any further queries in this regard, please contact me.

Prepared by Simon Todd

04 May 2017

A handwritten signature in black ink, appearing to read 'Simon Todd'.

Pr.Sci.Nat  
SACNASP 400425/11.

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Ref: 003177L02/rs  
26 April 2017

SiVEST Environmental Division  
51 Wessel Road  
Rivonia  
Sandton  
2128

For the attention of Ms Andrea Gibb  
Email: AndreaG@sivest.co.za

Dear Andrea

**MOOKODI POWER LINE ROUTE AND GANYESA SUBSTATIONS  
DESKTOP GEOHYDROLOGICAL REVIEW**

We refer to our (Jeffares & Green) report reference 003561R02 titled “Geohydrological Impact Assessment of the Amended Mookodi Power Line Route and Ganyesa Substations Near Vryburg, North West Province”, dated August 2014, and the new route alignment presented in your email dated 11 April 2017.

The power line route and substation sites were previously assessed at a desktop level reviewing geology, geohydrology and soil cover. A 500m buffer of the power line routes and substations was previously classified as no impact or very low impact based on geology, with low impact areas classified for 200m buffers from geological structures, contacts and existing boreholes.

The new route alignment deviates from the previous alignment more than the 500m buffer distance previously assessed and hence some changes to the impacts are expected. Geological structures, contacts and existing boreholes along the new alignment will increase the inferred impact from no/very low impact to low impact as presented in the following figure. In addition, river and stream crossings along the new alignment would need to be assessed and a 200m buffer implemented around these to classify them as low impact areas.

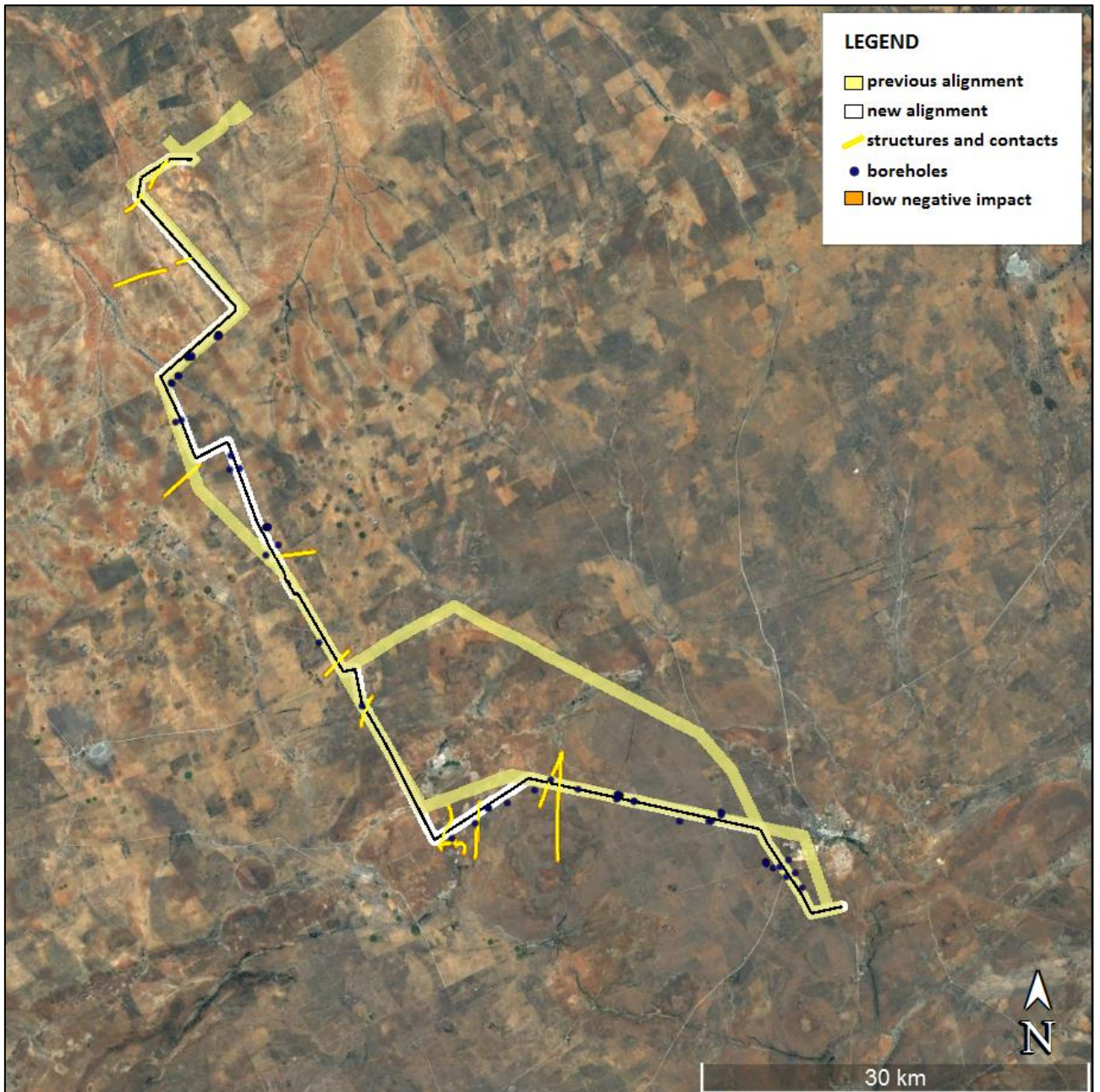


Figure1: Site plan showing previous and new alignment with mapped geological structures and existing groundwater resources.

We trust this meets with your approval.

Yours Faithfully  
for: **JG AFRIKA (PTY) LTD**

**ROBERT SCHAPERS**  
Executive Associate

Your Ref.:

Our Ref.:

PO Box 1109  
Sunninghill 2157  
South Africa

5 May 2016

SiVEST Environmental Division  
51 Wessel Road  
Rivonia  
2128

**ATTENTION: MS ANDREA GIBB**

Dear Madam

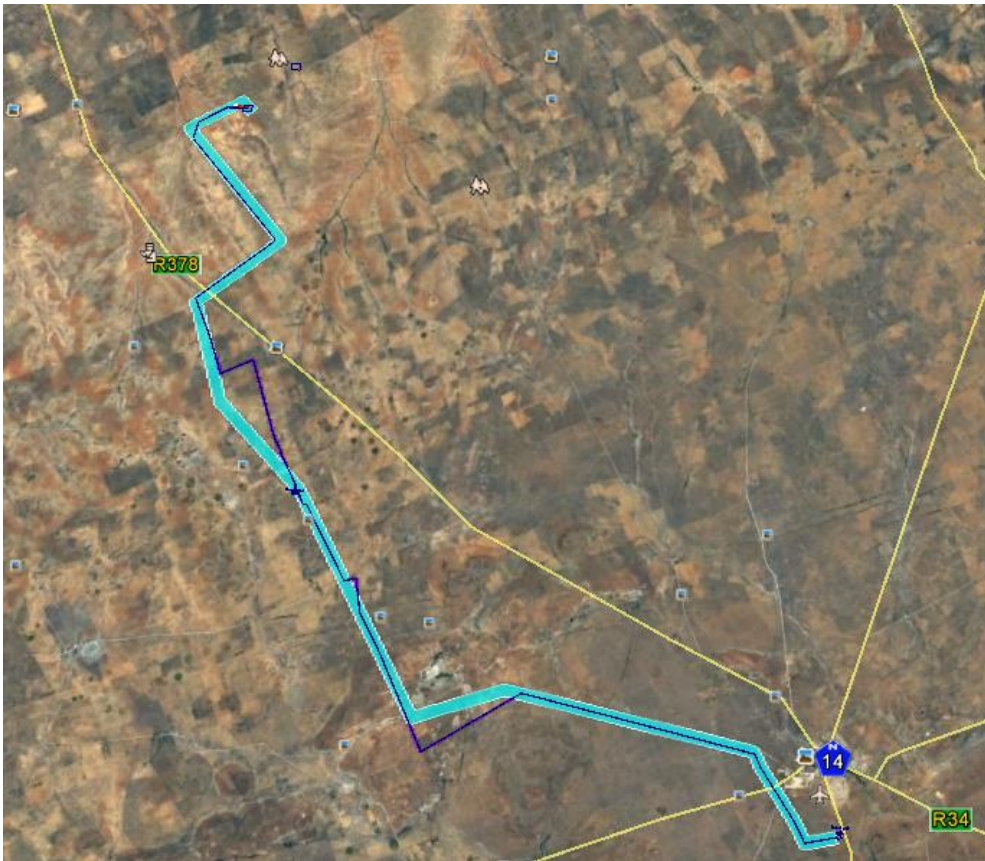
**13993 MOOKODI GANYESA AMENDMENTS: REVISED POWER LINE ROUTE**

With reference to your email dated 11 April 2017, please find attached our comment regarding the implications of the deviations to the proposed Mookodi Ganyesa power line route.

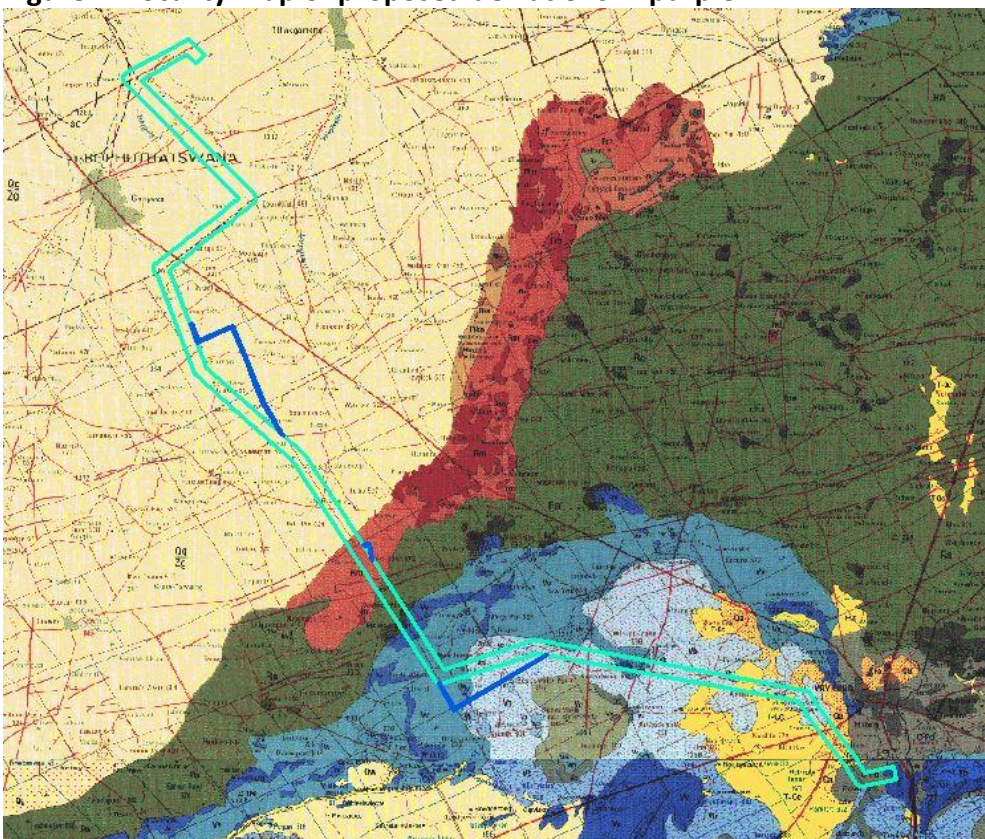
JG Afrika (Pty) Ltd previously known as Jeffares and Green has undertaken the geotechnical assessments desktop study for the proposed Mookodi Ganyesa Power Line, near Vryburg, in the North West Province in 2014 as part of the environmental approval process.

The environmental authorisation (EA) was issued by the Department of Environmental Affairs (DEA) for this project in February 2015. However, as a result of subsequent negotiations with landowners, Eskom need to deviate three sections of the authorised power line route. These deviations fall outside of the assessed corridor (see Figure 1). JG Afrika were requested to assess if new or increased impacts, other than those identified during the initial geotechnical study are likely to arise due to the change in the power line route.

Figure 1 below shows the location of the approved power line in blue, and the proposed deviations in purple. After consulting the geological maps 2624 Vryheid and 2724 Christiana it was evident that the same geological formations are intersected at the three deviations and hence similar impacts are expected from a geotechnical perspective. Quaternary deposits, comprising aeolian sands of the Gordonia Formation; Kalahari Group are expected at the northern-most deviation; quartz porphyry, feldspar porphyry and rhyolite of the Allanridge Formation, Ventersdorp Group, are expected at the middle section deviation and oolitic & stromatolitic dolomite with interbedded shale of the Vryburg Formation, Griqualand West Sequence are expected to be encountered at the southern-most deviation (see Figure 2).



**Figure 1: Locality Map of proposed deviations in purple**



**Figure 2: Geological Map of proposed deviations in dark blue**

It is therefore our opinion that no increased or additional geotechnical impacts are to be expected with regards to the three deviation proposed, based on this desktop study.

It is strongly recommended that further detailed geotechnical investigations are undertaken along the entire power line route prior to construction in order to confirm the findings of this study.

This letter report should be read in conjunction with the *“Proposed Mookodi Integration Phase 2 – 132 kV Power Lines and Ganyesa Substation: GEOTECHNICAL DESKTOP STUDY”* of 2014.

Yours faithfully

**C CANAHAI TECHNICAL DIRECTOR**  
for: **JG AFRIKA (PTY) LTD**

Ms V Evans  
Environmental Consultant  
SiVEST Environmental Division  
P O Box 2921  
Rivonia  
2128

4 May 2017

Dear Ms Evans

**POWERLINE AMENDMENTS: MOOKODI-GANYESA POWER LINE**

Based on an email received by SiVEST on 11 April 2017, I have reviewed the three (3) proposed deviations in the Mookodi-Ganyesa power line in comparison to the authorised power line corridor. As requested, I have reviewed the maps and .kml files submitted to me regarding the above matter.

- During the original survey (Van Schalkwyk 2014: *Mookodi integration project – Phase 2: Heritage report, report number 2014/JvS/049* dated August 2014) the power line corridor was surveyed. As is normal procedure, one always survey an area larger than the defined route, which would in effect would cover the proposed deviations.
- Based on experience in the region (Van Schalkwyk 2012a, 2012b, 2016), it can be stated that this is also a region with a low occurrence of heritage sites and features.

Van Schalkwyk, J.A. 2012a. *Heritage impact assessment for the proposed Ganyesa Wild Silk Project, Vryburg region, North West Province*. Pretoria: Unpublished report 2012/JvS/020.

Van Schalkwyk, J.A. 2012b. *Basic heritage assessment for the proposed Mookodi 132kV Phase 2 power lines development, North West Province*. Unpublished report 2012/JvS/049.

Van Schalkwyk, J.A. 2014. *Basic heritage assessment for the proposed Mookodi 132kV Phase 2 power lines development, North West Province*. Pretoria: Unpublished report 2014/JvS/049.

Van Schalkwyk, J.A. 2016. *Cultural heritage impact assessment for the development of the proposed Meerkat Solar Power Plant on a portion of the farm Vyflings Pan 598IN, Vryburg region, North West Province*. Pretoria: Unpublished report 2016/JvS/007.

After review, the new proposed power line deviations in comparison to the original authorised power line corridor, I can, with a high degree of confidence state that the new route alignments would not have an impact on sites, features or objects of cultural heritage significance.

However, considering the fact that archaeological sites in many cases occur below ground surface, if, during construction, archaeological site or graves are discovered, work must immediately be suspended and a heritage specialist must be consulted to assess the finds.

Yours sincerely



J A van Schalkwyk (D Litt et Phil)

- Heritage Consultant: ASAPA Registration No.: 164 - Principal Investigator: Iron Age, Colonial Period, Industrial Heritage.
- Postal Address: 62 Coetzer Avenue, Monument Park, 0181; Tel: 076 790 6777; E-mail: [jvschalkwyk@mweb.co.za](mailto:jvschalkwyk@mweb.co.za)



Andrea Gibb/Veronique Evans  
SiVEST (Pty) Ltd  
51 Wessels Road  
Rivonia  
2128

**HASKONINGDHV NEDERLAND B.V.**

19 Park Lane  
Floor 3 The Boulevard Umhlanga  
Umhlanga  
Umhlanga Rocks  
4319

+27 (0)873506660 T  
durban@rhdhv.com E  
royalhaskoningdhv.com W

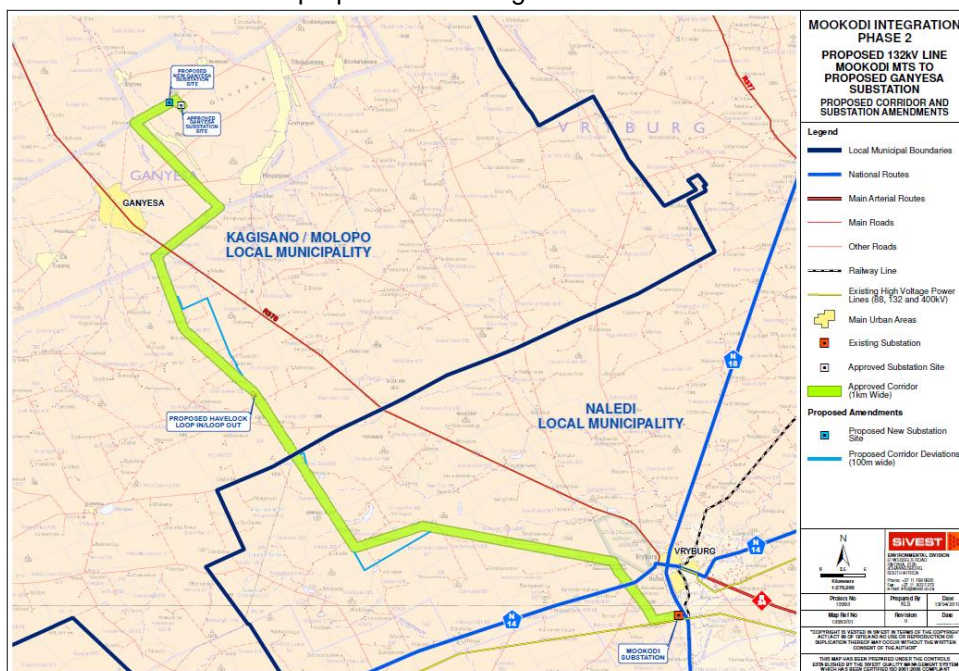
Date:	04 May 2017	Contact name:	Kim Moonsamy
Your reference:	Proposed Mookodi-Ganyesa Deviations	Telephone:	27873506764
Our reference:	T&PMD3170-100-100	Email:	kim.moonsamy@rhdhv.com
Classification:	Open		

**Proposed Mookodi-Ganyesa Deviations – Corridor**

Royal HaskoningDHV has been tasked to review our report title “Mookodi to Ganyesa basic Social Assessment Report” dated August 2014 (report reference E02.DUR.000608) in light of the proposed Mookodi-Ganyesa power line deviations. It is our understanding that the Environmental Authorisation for the original EIA application has been approved by the DEA. Three (3) proposed deviations in the authorised power line corridor has now warranted a review of the social red-flag issues that may ensue.

This Letter serves to provide a high level assessment of the proposed deviations of the Mookodi-Ganyesa power line corridor, as per the request from SiVEST, in an email dated 11 April 2017.

The authorised and new proposed route alignment and substation location is illustrated below.





The first proposed deviation of the power line routing is illustrated below .



The new proposed line is approximately 1km closer to an existing structure (from the authorised corridor). This deviation has brought the power line corridor within a 200 meter range of the existing structure.

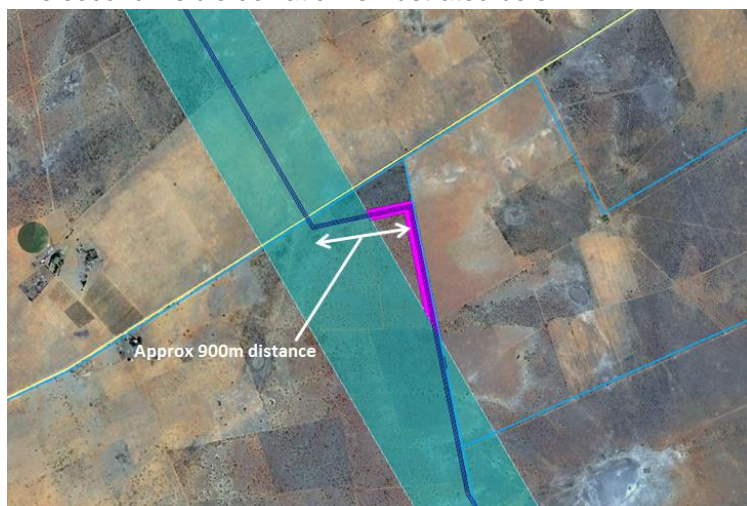
Since the proposed new deviated corridor has shifted closer to an existing structure, two actions need to occur:

- 1) Confirm the ownership and usage of the existing structure (unused, abandoned building, farm shed, cattle kraal, residential building, etc.); and
- 2) Pursue the applicable information dissemination and sharing process with the respective owners/ residents and allow the legally required timeframe for comments to be expressed.

The project must be inclusively considerate of such feedback when finalising its plans.

*\*\* Note – the authorised corridor covers a span of approximately 1 km, while the new proposed deviated corridor covers approximately 10 meters. Publically disseminated information must be clear and transparent with regards to this distinction.*

The second visible deviation is illustrated below.



There are no red-flags raised with this deviation of approximately 900 meters to the furthest point. The project must allow for the legally required public engagement process to be followed. This may include an information dissemination and sharing process with the respective owners, following which comments will be expressed.

The third visible deviation is illustrated below.



There are no red-flags raised with this deviation of approximately 2.8 kms to the furthest point. The original authorised placement of the power line corridor and the new proposed deviated power line route, both transverse over farmed land and therefore the impacts remain the same. We cannot confirm if the same (or additional farmers) are impacted. The project must allow for the legally required public engagement process to be followed. This may include an information dissemination and sharing process with the respective owners, following which comments will be expressed.

This review finds no additional critical social concerns with respect to the activity posed by the three (3) proposed power line deviations. It has been noted that the proposed deviations have been aligned to existing farm borders. This is advantages to the project in that it will not cause major disruption to current farming activities, and serves to manage health, safety, livelihood and site access risks to both the project and the land owner/s.

Only following on from public sentiment of these deviations can we gauge whether there will be tangible, realistic changes in the social environment. The impacts as rendered in the original 2014 Report will remain low and the mitigation measures recommended in the original social report are still applicable.

Kim Moonsamy  
Social Specialist  
Transport & Planning

**Enquiries: DG Paterson**

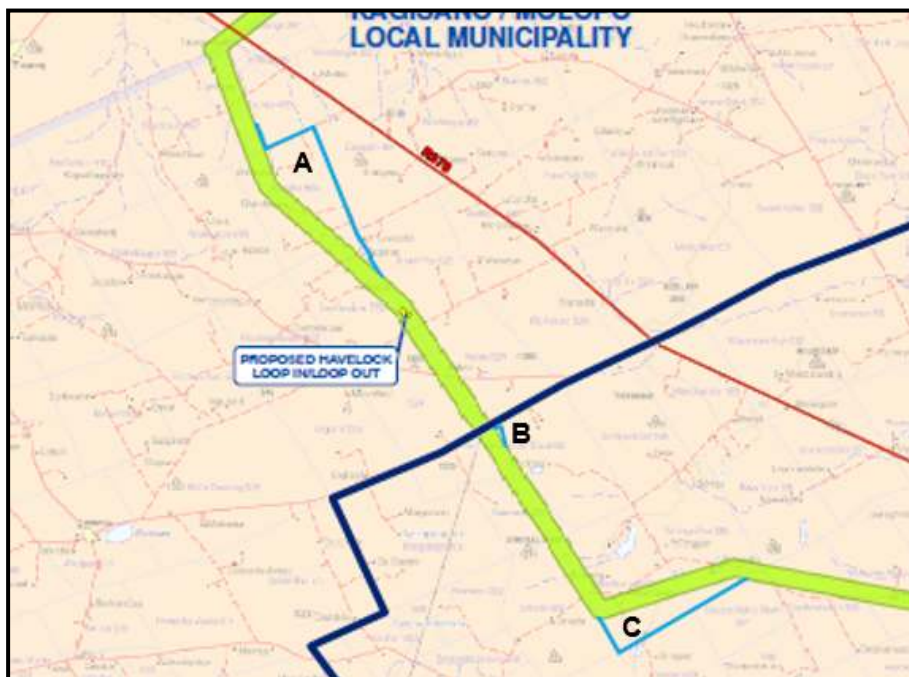
To whom it may concern:

**Route Deviations: Mookodi-Ganyesa Transmission Line**

**Background:** ARC-ISCW was requested by SiVEST to provide information on soils and agricultural potential for the proposed Mookodi-Ganyesa transmission line, near Vryburg in North West Province. A report was supplied in 2014 (ARC Report No. GW/A/2014/39).

The main conclusion from that report was that, due to a combination of low annual rainfall, hot summer temperatures and sandy soils that will have poor water-holding properties, the prevailing agricultural potential in the area is low. In addition, due to the nature of a transmission line, with isolated pylon sites with small footprint, the impact on the loss of agricultural land is generally not significant. The exception would be areas of intensive agricultural production, especially under permanent irrigation.

**Deviations:** a route was approved for the transmission line. However, due to negotiations with landowners, Eskom have proposed three deviations. These are marked A, B and C on the map below (Figure 1).



**Figure 1** Proposed deviations to route

At the scale of the soil information available for the original report, namely 1:250 000, all of the three deviations fall within the same broad soil pattern (*land type* mapping unit) as the original route, so the soils occurring will not differ. On Figure 2, it can be seen that in the zone between Deviations A and B, there a number of centre pivot irrigation fields (presumably fed by underground water sources), but neither the approved route or any of the proposed deviations affect any of these areas.



**Figure 2** Google Earth image of deviations from route

**Conclusion:** the proposed deviations will have little or no effect on the overall impact of the route. The statements made in the original soils report, and their incorporation into any other submitted documents, are still fully valid.

Yours sincerely,



.....  
(Signed)  
**D.G. Paterson (PhD)**

Date:  
3<sup>rd</sup> May 2017

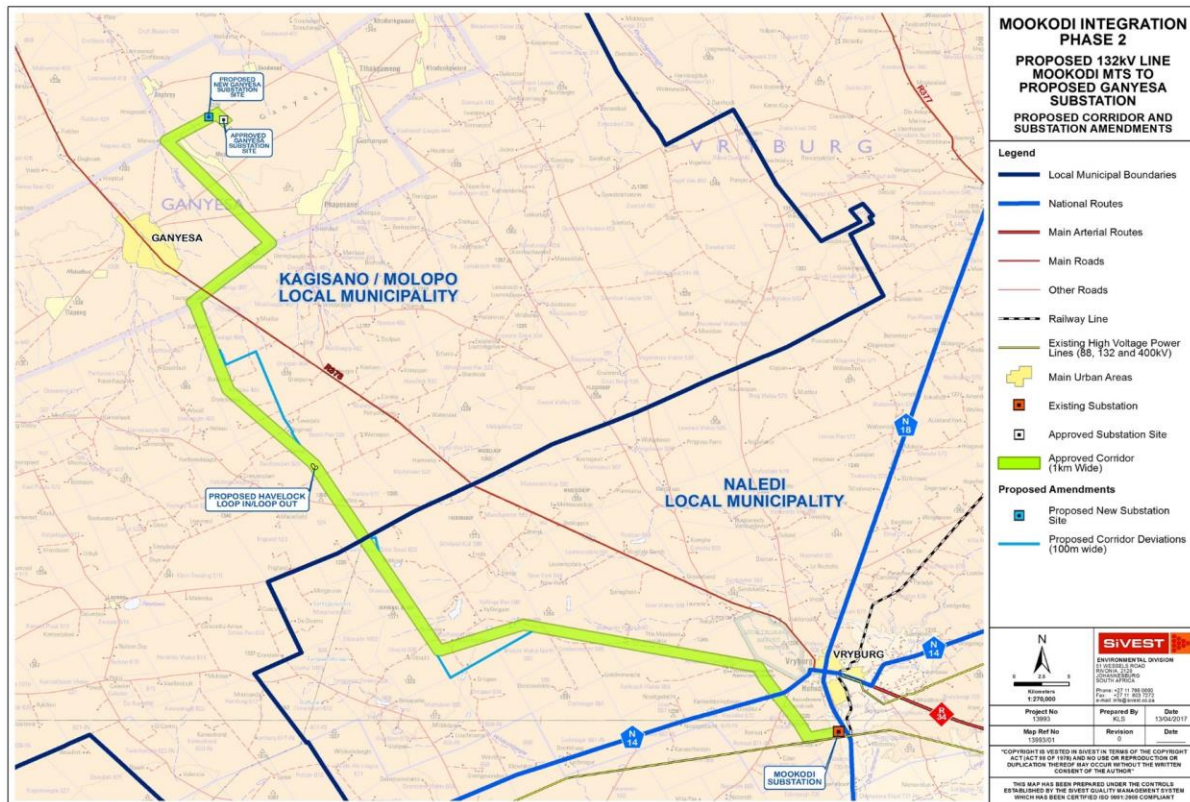
(012) 310 2601  
[garry@arc.agric.za](mailto:garry@arc.agric.za)

DEA Reference: 14/12/16/3/3/1/680  
Our reference: 13993  
Date: 31 May 2017

Dear Veronique

**APPLICATION FOR THE AMENDMENT OF THE ENVIRONMENTAL AUTHORISATION FOR THE PROPOSED MOOKODI INTEGRATION PHASE 2: POWER LINES**  
▪ **SURFACE WATER REVIEW**

In February 2014 and later in August 2014, Shaun Taylor and Alistair Fyfe, respectively of SiVEST SA (Pty) Ltd undertook Surface Water Assessments for the proposed Mookodi Integration Phase 2 Project: 132kV Power Line and Ganyesa Substation near Vryburg, North West Province. After correspondence with the client, the originally authorized power line corridor needs to be re-aligned outside of the environmentally approved corridor in order to accommodate landowner requests as an outcome of the negotiation process. As such, there are three (3) areas where the power line will need to deviate from the environmentally authorised corridor. This is shown in Figure 1 below.



**Figure 1. Deviated Sections of the Proposed Power Line from the Environmentally Authorised Corridor**

SiVEST has reviewed the possible surface water implications of the proposed new substation location change. The potential impact ratings in the most recent updated surface water report are shown in **Table 1** below. Where potential impacts increased, the significance impact ratings are highlighted in orange. Where the potential impacts have decreased, the significance impact ratings are highlighted in green).

**Table 1. Impact Rating Comparative Assessment from the August 2014 and May 2017 Surface Water Impact Assessments**

CONSTRUCTION PHASE	Last Recent Surface Water Assessment (dated 27 <sup>th</sup> August 2014) Impact Ratings		Current Surface Water Assessment (dated May 2017) Impact Ratings	
	Pre-mitigation Rating	Post-mitigation Rating	Pre-mitigation Rating	Post-mitigation Rating
Vehicle and Machinery Degradation	- 39 (medium negative)	- 20 (low negative)	- 45 (medium negative)	- 26 (low negative)
Human Degradation of Wetland Flora and Fauna	- 24 (low negative)	- 14 (low negative)	- 22 (low negative)	- 14 (low negative)
Increased Run-off and Sedimentation	- 45 (medium negative)	- 22 (low negative)	- 48 (medium negative)	- 22 (low negative)
Stringing Power Lines	- 22 (low negative)	- 8 (low negative)	- 24 (low negative)	- 9 (low negative)
Excavation Impacts	- 36 (medium negative)	- 9 (low negative)	- 42 (medium negative)	- 11 (low negative)
<b>OPERATION PHASE</b>				
Vehicle Damage	- 45 (medium negative)	- 24 (low negative)	- 51 (high negative)	- 28 (low negative)
Service Roads	- 51 (high negative)	- 30 (medium negative)	- 54 (high negative)	- 32 (medium negative)
Power Line Collision and Electrocuting Impacts to Wetland Avi-fauna	- 26 (low negative)	- 11 (low negative)	- 30 (medium negative)	- 14 (low negative)

Given the above, SiVEST can confirm the following:

- A total of forty five (45) wetlands and three (3) drainage lines have been identified within the proposed EA approved corridor and the new proposed deviation corridors. Within the new proposed deviation corridors, additional surface water resources will be affected as a result of the proposed power line deviations;
- Seven (7) additional wetlands (five (5) depression wetlands and two (2) unchannelled valley bottom wetlands) were identified within the new proposed deviation corridors. Depression

Wetland 34 was identified to be too wide to be spanned by the proposed power line (approximately 330m) and will be directly affected.

- In light of the above, the various impact ratings have increased as per the table above.
- From a positive point of view, with the new proposed deviation corridors, a slight reduction in impacts was assessed for the impact human degradation to wetland flora and fauna. This is very minor however.
- The majority of mitigation measures have largely remained the same. However, additional mitigation measures have been proposed to minimise potential impacts on surface water resources as far as possible.

Ultimately, from the above, the potential impacts identified and assessed can be mitigated to medium/low levels. As such, the proposed project can proceed with strict implementation of mitigation measures.

Yours sincerely



Shaun Taylor  
Environmental Scientist  
**SIVEST Environmental Division**



DEA Reference: 14/12/16/3/3/1/680

Our reference: 13993

Date: 12 May 2017

Dear Veronique

**APPLICATION FOR THE AMENDMENT OF THE ENVIRONMENTAL AUTHORISATION FOR THE  
PROPOSED MOOKODI INTEGRATION PHASE 2: MOOKODI-GANYESA SUBSTATION**  
▪ **VISUAL REVIEW**

In September 2014, Andrea Gibb of SiVEST SA (Pty) Ltd undertook a Visual Impact Assessment (VIA) for the proposed Mookodi Integration Phase 2: 132kV Power Line and Ganyesa Substation near Vryburg, North West Province. After correspondence with the client, and negotiations with landowners three (3) deviations are being proposed from the originally authorized power line corridor.

SiVEST has reviewed the possible visual implications of the proposed three (3) power line deviations and can confirm the following:

- The proposed power line deviations falls outside of the previously assessed 500m buffer applied to the original Mookodi-Ganyesa Power line;
- The power line deviations now transverse farm boundaries;
- The proposed power line deviations are located in close proximity to the previously assessed and authorized power line corridor;
- There are no sensitive visual receptors close to the new proposed power line deviations as such the deviations will not change the impact on visually sensitive receptors;
- Power line deviations during construction and operation would remain low as long as the originally recommended mitigation measures are implemented.

As such, the proposed power line deviations would not result in any material changes to those noted in the previously compiled VIA report and the visual impact rating would remain unchanged.

Yours sincerely



Andrea Gibb  
Environmental Practitioner  
**SiVEST Environmental Division**



Simon Todd Pr.Sci.Nat  
C: 082 3326502  
O: 021 782 0377  
Simon.Todd@3foxes.co.za  
60 Forrest Way  
Glencairn  
7975

Ecological Solutions for  
People & the Environment

Simon Todd  
60 Forrest Way  
Glencairn  
7975

SiVEST Environmental Division  
51 Wessel Road  
PO Box 2921  
Rivonia  
7975  
Att: Andrea Gibb

04 May 2017

**AMENDMENTS FOR THE AUTHORISED GANYESA SUBSTATION NEAR VRYBURG, NORTH WEST PROVINCE  
(DEA REF. NO.: 14/12/16/3/3/1/680)**

This statement letter is in reference to the proposed Mookodi Ganyesa Power Line and Substation near Vryburg in the North West Province. An environmental authorisation (EA) was issued by the Department of Environmental Affairs (DEA) for this project in February 2015. However, this also requires that the original authorized substation location be moved to a new proposed substation location closer to the road.

SiVEST have been appointed to undertake the required process in order to obtain authorisation for the new proposed substation location. As part of these activities, SiVest have requested a statement from Simon Todd Consulting, as the original ecological specialist on the Mookodi Ganyesa Power Line and Substation, with regards to the new substation location and the impact of the new proposed substation location in comparison with the original authorised substation location.

I have reviewed the new location of the substation and potentially affected features in the vicinity. Particular attention was paid to the presence of features of concern in the area and the potential of the new proposed substation site to generate greater impact than the original previously assessed option. After reviewing the new proposed substation site and comparing this to the original authorized substation site, I have reached the following conclusions with regards to the changes to the new proposed substation location:

- The habitat at the new substation location is not significantly different from the original substation location.
- As such, the proposed location would not significantly increase the impact of the substation compared to the original assessed site.
- As the ecological impacts associated with the new proposed location are similar to the original site, the significance of assessed impacts for the original approved site and the proposed site are similar

and as such, the impacts as assessed in the ecological study are equally applicable to the new substation location.

- The mitigation and avoidance measures as detailed in the ecological study are equally applicable and sufficient with regards to the new location and no additional or new mitigation measures are recommended.

Should you have any further queries in this regard, please contact me.

Prepared by Simon Todd

04 May 2017

A handwritten signature in black ink, appearing to read 'Simon Todd'.

Pr.Sci.Nat  
SACNASP 400425/11.

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Ref: 003177L01/rs  
26 April 2017

SiVEST Environmental Division  
51 Wessel Road  
Rivonia  
Sandton  
2128

For the attention of Ms Andrea Gibb  
Email: [AndreaG@sivest.co.za](mailto:AndreaG@sivest.co.za)

Dear Andrea

**MOOKODI POWER LINE ROUTE AND GANYESA SUBSTATIONS  
DESKTOP GEOHYDROLOGICAL REVIEW**

We refer to our (Jeffares & Green) report reference 003561R02 titled "Geohydrological Impact Assessment of the Amended Mookodi Power Line Route and Ganyesa Substations Near Vryburg, North West Province", dated August 2014, and the new route alignment presented in your email dated 11 April 2017.

The power line route and substation sites were previously assessed at a desktop level reviewing geology, geohydrology and soil cover. A 500m buffer of the power line routes and substations was previously classified as no impact or very low impact based on geology, with low impact areas classified for 200m buffers from geological structures, contacts and existing boreholes.

The new substation site is still located within the previous 500m buffer area and will remain at a low to medium negative impact level.

We trust this meets with your approval.

Yours Faithfully  
for: **JG AFRIKA (PTY) LTD**

**ROBERT SCHAPERS**  
Executive Associate

Your Ref.:

Our Ref.:

PO Box 1109  
Sunninghill 2157  
South Africa

5 May 2016

SiVEST Environmental Division  
51 Wessel Road  
Rivonia  
2128

**ATTENTION: MS ANDREA GIBB**

Dear Madam

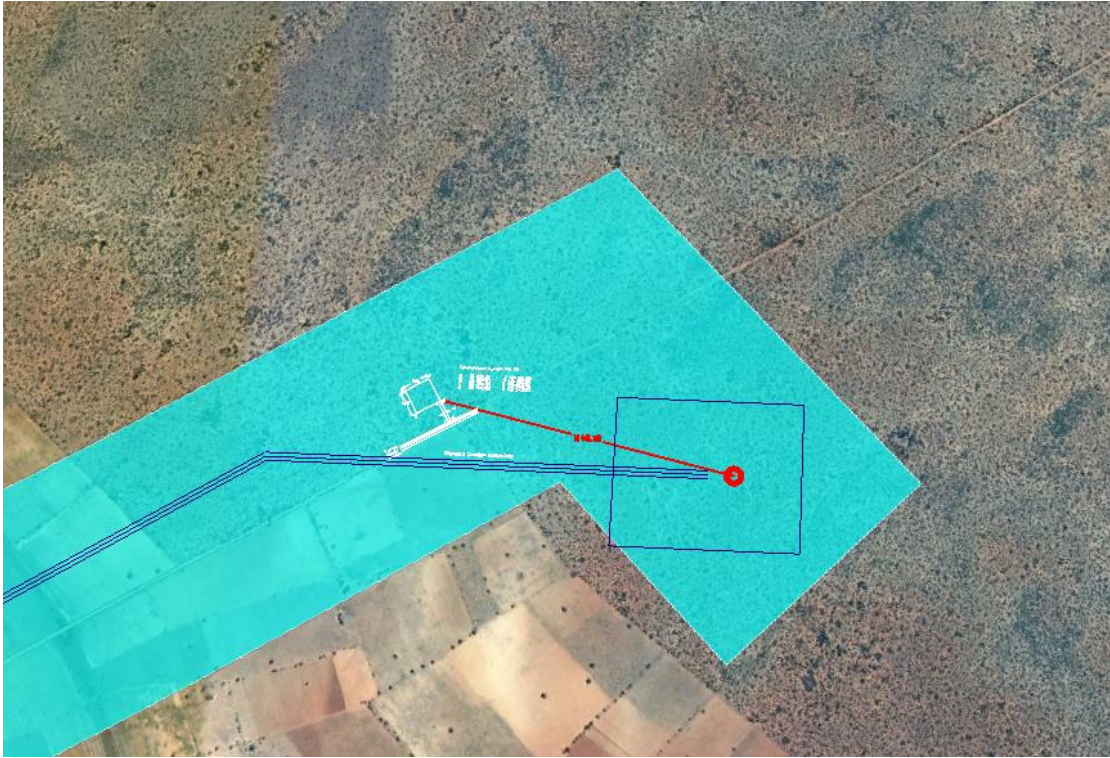
**13993 MOOKODI GANYESA AMENDMENTS: REVISED SUBSTATION LOCATION**

With reference to your email dated 11 April 2017, please find attached our comment regarding the implications of the re-location of the proposed Ganyesa Substation.

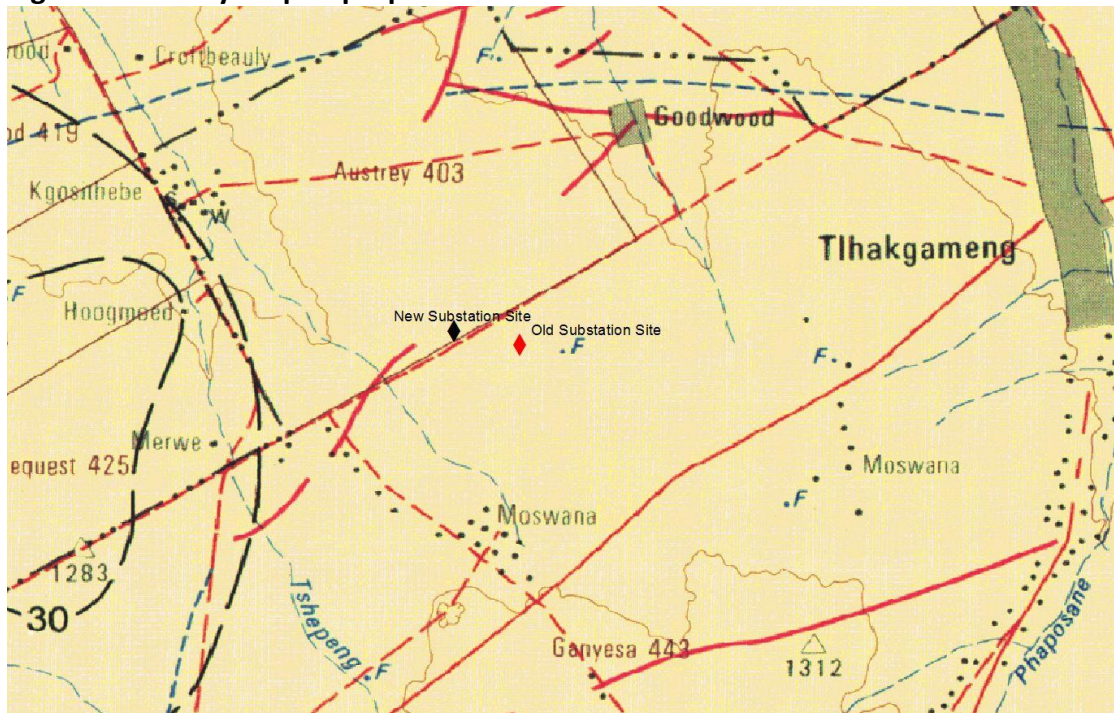
JG Afrika (Pty) Ltd previously known as Jeffares and Green has undertaken the geotechnical assessments desktop study for the proposed Ganyesa Substation, near Vryburg, in the North West Province in 2014, as part of the environmental approval process.

The environmental authorisation (EA) was issued by the Department of Environmental Affairs (DEA) for this project in February 2015. However, as a result of subsequent negotiations with landowners, Eskom need to move the authorised substation location to a new location that falls within the assessed corridor (see Figure 1). JG Afrika were requested to assess if new or increased impacts, other than those identified during the initial geotechnical study are likely to arise due to the change in the substation location.

Figure 1 below shows the location of the approved substation in red, and the proposed new location in white. After consulting the geological map 2624 Vryheid it was evident that the geological formation is the same at both locations and hence similar impacts are expected from a geotechnical perspective. Quaternary deposits, comprising Aeolian sands of the Gordonia Formation; Kalahari Group are expected at both locations and will overlies basement granites. (see Figure 2).



**Figure 1: Locality Map of proposed new substation location in white**



**Figure 2: Geological Map of proposed new substation location in black**

It is therefore our opinion that no increased or additional geotechnical impacts are to be expected with regards to the relocation of the substation, based on this desktop study.

It is strongly recommended that further detailed geotechnical investigations are undertaken prior to construction at the chosen substation site location in order to confirm the findings of this study.

This letter report should be read in conjunction with the *“Proposed Mookodi Integration Phase 2 – 132 kV Power Lines and Ganyesa Substation: GEOTECHNICAL DESKTOP STUDY”* of 2014.

Yours faithfully

**C CANAHAI TECHNICAL DIRECTOR**  
for: **JG AFRIKA (PTY) LTD**

Ms V Evans  
Environmental Consultant  
SiVEST Environmental Division  
P O Box 2921  
Rivonia  
2128

4 May 2017

Dear Ms Evans

### **SUBSTATION AMENDMENTS: GANYESA SUBSTATION**

Based on an email received by SiVEST on 11 April 2017, I have reviewed the new proposed Ganyesa substation location in comparison to the originally authorised substation location. As requested, I have reviewed the maps and .kml files submitted to me regarding the above matter.

- During the original survey (Van Schalkwyk, J.A. 2014: *Mookodi integration project – Phase 2: Heritage report, report number 2014/JvS/049* dated August 2014) the powerline corridor (500m) was surveyed, which also covered the originally authorised substation location as well as the new proposed location of the substation.
- Based on experience in the region (Van Schalkwyk 2012a, 2012b, 2016), it can be stated that this is also a region with a low occurrence of heritage sites and features.

Van Schalkwyk, J.A. 2012a. *Heritage impact assessment for the proposed Ganyesa Wild Silk Project, Vryburg region, North West Province*. Pretoria: Unpublished report 2012/JvS/020.

Van Schalkwyk, J.A. 2012b. *Basic heritage assessment for the proposed Mookodi 132kV Phase 2 power lines development, North West Province*. Unpublished report 2012/JvS/049.

Van Schalkwyk, J.A. 2014. *Basic heritage assessment for the proposed Mookodi 132kV Phase 2 power lines development, North West Province*. Pretoria: Unpublished report 2014/JvS/049.

Van Schalkwyk, J.A. 2016. *Cultural heritage impact assessment for the development of the proposed Meerkat Solar Power Plant on a portion of the farm Vyflings Pan 598IN, Vryburg region, North West Province*. Pretoria: Unpublished report 2016/JvS/007.

After review, the new proposed power line deviations in comparison to the original authorised power line corridor, I can, with a high degree of confidence state that the new location of the substation would not have an impact on sites, features or objects of cultural heritage significance.

However, considering the fact that archaeological sites in many cases occur below ground surface, if, during construction, archaeological site or graves are discovered, work must immediately be suspended and a heritage specialist must be consulted to assess the finds.

Yours sincerely



J A van Schalkwyk (D Litt et Phil)

- Heritage Consultant: ASAPA Registration No.: 164 - Principal Investigator: Iron Age, Colonial Period, Industrial Heritage.
- Postal Address: 62 Coetzer Avenue, Monument Park, 0181; Tel: 076 790 6777; E-mail: [jvschalkwyk@mweb.co.za](mailto:jvschalkwyk@mweb.co.za)





Andrea Gibb/Veronique Evans  
SiVEST (Pty) Ltd  
51 Wessels Road  
Rivonia  
2128

**HASKONINGDHV NEDERLAND B.V.**

19 Park Lane  
Floor 3 The Boulevard Umhlanga  
Umhlanga  
Umhlanga Rocks  
4319

+27 (0)873506660 **T**  
durban@rhdhv.com **E**  
royalhaskoningdhv.com **W**

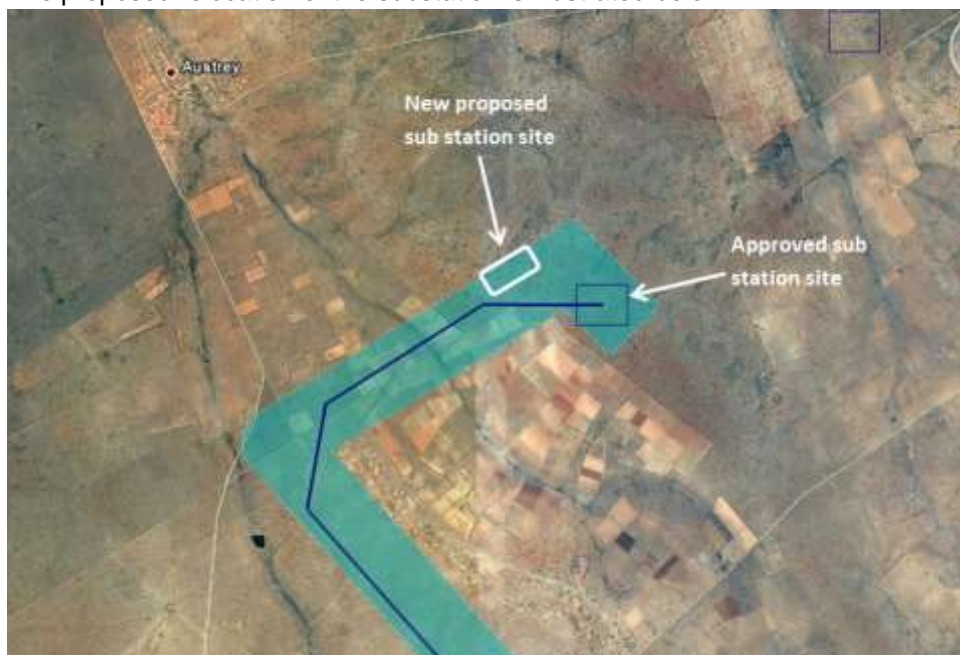
Date:	04 May 2017	Contact name:	Kim Moonsamy
Your reference:	Proposed Mookodi-Ganyesa Deviations	Telephone:	27873506764
Our reference:	T&PMD3170-100-100	Email:	kim.moonsamy@rhdhv.com
Classification:	Open		

**Proposed Mookodi-Ganyesa Deviations – Sub-station**

Royal HaskoningDHV has been tasked to review our report title “Mookodi to Ganyesa basic Social Assessment Report” dated August 2014 (report reference E02.DUR.000608) in light of the proposed amendments to the location of Ganyesa Substation. It is our understanding that the Environmental Authorisation for the original EIA application has been approved by the DEA. However, it is proposed that the location of the authorised substation be moved to a new location, which has now warranted a review of the social red-flag issues that may ensue.

This Letter serves to provide a high level assessment of the proposed relocation of the Ganyesa Substation, as per the request from SiVEST, in an email dated 11 April 2017.

The proposed relocation of the substation is illustrated below.



The closest communities of Austrey and Goodwood remain over 4kms away from the substation, with no additional adverse effects. The new proposed location of the substation borders agricultural land but is not substantially further or nearer to the farmed land when compared to its original authorised placement. The earlier study cited that the locations of the proposed substation alternatives (of which there were 3 alternative locations) were on land belonging to the Tlou le Tau Tribal Authority. Since the proposed location of *this* new proposed substation location is potentially still within the Tribal Authority's jurisdiction, two actions need to occur:

- 1) Identify and confirm jurisdiction; and
- 2) Pursue the necessary negotiation and agreement with the respective owners/ custodians.

The project must allow for the legally required public engagement process to be followed. This may include an information dissemination and sharing process with the respective owners / custodians, following which comments will be expressed.

This review finds no additional critical social concerns with respect to the activity posed by the proposed new location of the Ganyesa substation. As the substation site is located within the previously assessed 500m area the social impact will remain low and the mitigation measures recommended in the original social report are still applicable.

**Kim Moonsamy**

Social Specialist

Transport & Planning

**Enquiries: DG Paterson**

To whom it may concern:

**Deviation: proposed Ganyesa substation**

**Background:** ARC-ISCW was requested by SiVEST to provide information on soils and agricultural potential for the proposed Mookodi-Ganyesa transmission line, near Vryburg in North West Province, including a location for a proposed new substation. A report was supplied in 2014 (ARC Report No. GW/A/2014/39).

The main conclusion from that report was that, due to a combination of low annual rainfall, hot summer temperatures and sandy soils that will have poor water-holding properties, the prevailing agricultural potential in the area is low. In addition, due to the small footprint of the substation (approximately 1 ha), the impact on the loss of agricultural land is generally not significant. The exception would be in the case of intensive agricultural production, especially under permanent irrigation.

**Deviations:** a site was originally approved for the transmission line (marked Alt 2 on Figure 1). However, Eskom have proposed that this be moved approximately 1.2 km to the west (as shown by the arrow pointing to the green square in Figure 1).



**Figure 1** Proposed deviations in substation locality

At the scale of the soil information available for the original report, namely 1:250 000, both the original and revised sites for the substation fall within the same broad soil pattern (**land type** mapping unit), so the soils occurring will in all probability not differ significantly. On Figure 1, it can be seen that the revised site falls outside any area of local cultivation in an area under natural bush vegetation, so there will be no impact on any agricultural practices. The closest area of high value cultivation (centre pivot irrigation) occurs approximately 13 km to the south-east.

**Conclusion:** the proposed deviations will have little or no effect on the overall impact of the route. The statements made in the original soils report, and their incorporation into any other submitted documents, are still fully valid.

Yours sincerely,



.....  
(Signed)  
**D.G. Paterson (PhD)**

Date:  
3<sup>rd</sup> May 2017

(012) 310 2601  
[garry@arc.agric.za](mailto:garry@arc.agric.za)

DEA Reference: 14/12/16/3/3/1/680

Our reference: 13993

Date: 05 May 2017

Dear Veronique

**APPLICATION FOR THE AMENDMENT OF THE ENVIRONMENTAL AUTHORISATION FOR THE  
PROPOSED MOOKODI INTEGRATION PHASE 2: SUBSTATION**  
▪ **SURFACE WATER REVIEW**

In February 2014 and later in August 2014, Shaun Taylor and Alistair Fyfe, respectively of SiVEST SA (Pty) Ltd undertook Surface Water Assessments for the proposed Mookodi Integration Phase 2 Project: 132kV Power Line and Ganyesa Substation near Vryburg, North West Province. After correspondence with the client, the originally authorized substation location needs to be moved to a new proposed location closer to the road.

SiVEST has reviewed the possible surface water implications of the proposed new substation location change and can confirm the following:

- The proposed new substation locations falls within the previously assessed 500m buffer applied to the original Mookodi-Ganyesa Power line;
- There are no surface water resources directly within the proposed Substation location, nor are there any surface water resources within a 500m radius of the proposed Substation location;
- The assessment revealed that there will be no impact on surface water resources resulting from the proposed new Substation location during construction and operation phase, since no surface water resources are directly or within a 500m radius of the proposed Substation location.

As such, the new proposed Ganyesa Substation location would not result in any material changes to those noted in the previously compiled Surface Water Assessments would remain unchanged as "no impact".

Yours sincerely

A handwritten signature in black ink, appearing to read "Shaun Taylor".

Shaun Taylor  
Environmental Scientist  
**SiVEST Environmental Division**

DEA Reference:

Our reference: 13993

Date: 12 May 2017

Dear Veronique

**APPLICATION FOR THE AMENDMENT OF THE ENVIRONMENTAL AUTHORISATION FOR THE PROPOSED MOOKODI INTEGRATION PHASE 2: GANYESA SUBSTATION**

▪ **VISUAL REVIEW**

In September 2014, Andrea Gibb of SiVEST SA (Pty) Ltd undertook a Visual Impact Assessment (VIA) for the proposed Mookodi Integration Phase 2: 132kV Power Line and Ganyesa Substation near Vryburg, North West Province. After correspondence with the client, it was established that the originally authorised substation location needs to be moved to a new proposed location closer to the road.

SiVEST has reviewed the possible visual implications of the proposed new substation location change and can confirm the following:

- The proposed new substation location falls within the 1km wide corridor that was previously assessed as part of the Mookodi-Ganyesa power line Basic Assessment (BA);
- There are no sensitive visual receptor locations close to the new proposed substation location and as such the new location of the substation will not change the impact on visually sensitive receptors;
- The assessment revealed that the significance of the visual impacts resulting from the proposed new substation location during construction and operation would remain low before and after the recommended mitigation measures are implemented.

As such, the new proposed Ganyesa substation location would not result in any material changes to those noted in the previously compiled VIA report and the visual impact rating would remain unchanged.

Yours sincerely

A handwritten signature in black ink, appearing to read "Andrea Gibb".

Andrea Gibb  
Environmental Practitioner  
**SiVEST Environmental Division**

**APPENDIX 6  
LANDOWNER AND AUTHORITY NOTIFICATION**

## Shaun Taylor

---

**From:** Shaun Taylor  
**Sent:** Monday, 26 June 2017 12:15 PM  
**To:** 'TBoshoff@nwpg.gov.za'  
**Subject:** NOTIFICATION - 13993 APPLICATION FOR THE AMENDMENT OF THE ENVIRONMENTAL AUTHORISATION FOR THE PROPOSED CONSTRUCTION OF THE MOOKODI-GANYESA 132KV POWER LINE, NEW PROPOSED GANYESA SUBSTATION, NORTH WEST PROVINCE (14/12/16/3/3/1/680/AM1)  
**Attachments:** 13993 Mook-Gan Power Line Authority Notification Rev 1\_20 June 2017 ST.pdf  
**Importance:** High

Dear Mrs. Boshoff

This e-mail serves to inform you that a second amendment application for the Environmental Authorisation (EA) for the above mentioned project in the Northern West Province will be submitted on the 26<sup>th</sup> of June 2017 to the National Department of Environmental Affairs (N DEA) for decision making.

Please find attached the letter providing details for the second EA amendment application submission and reasons thereto.

We would like to thank you for participating in this Amendment and Public Participation process.

Best Regards

**Shaun Taylor**  
MSc (Aquatic Health)  
Environmental Scientist  
**SiVEST Environmental Division**



*SiVEST is a Level 3 BBBEE Contributor*

**Direct** +27 11 798 0691 **Tel** +27 11 798 0600 **fax** +27 11 803 7272 **cell** +27 72 779 4899  
**email** [shaunt@sivest.co.za](mailto:shaunt@sivest.co.za) **website** [www.sivest.co.za](http://www.sivest.co.za)



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**Consulting Engineers - Project Managers - Environmental Consultants - Town and Regional Planners**  
Durban - Johannesburg - Pietermaritzburg - Richards Bay - Ladysmith - Port Louis (Mauritius)

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North West Province Department of Agriculture, Environment  
and Rural Development  
Private Bag X15,  
Ganyesa  
2735

Your reference N/A  
Our reference 13993  
Date 23 June 2017

**ATTENTION: MR STEVEN MUKHOLA**

Via Email: [TBoshoff@nwpg.gov.za](mailto:TBoshoff@nwpg.gov.za)

Dear Mrs Tharina Boshoff

**APPLICATION FOR THE AMENDMENT OF THE ENVIRONMENTAL AUTHORISATION FOR THE PROPOSED MOOKODI INTEGRATION PHASE 2: CONSTRUCTION OF THE MOOKODI-GANYESA 132KV POWER LINE, NEW PROPOSED GANYESA SUBSTATION AND HAVELOCK LILO, NORTH WEST PROVINCE**

- NEAS REF NO: DEA/EIA/0001402/2012
- DEA REF NO: 14/12/16/3/3/1/680/AM1

Eskom Holdings SOC Limited, (hereafter referred to as 'Eskom') was issued with an Environmental Authorisation (EA) on 02 February 2015 for the proposed construction of the Mookodi-Ganyesa power line, new proposed Ganyesa substation and Havelock Loop in-loop out link, North West Province.

Eskom is applying for an amendment to the recently Amended EA (dated 13<sup>th</sup> June 2017), as the co-ordinates for the location of the new proposed Ganyesa substation needs to be corrected within the amended EA. The proposed substation co-ordinate details provided in the initial application for amendment of the original EA received by the DEA on the 16<sup>th</sup> May 2017 were incorrect and therefore need to be amended once more.

Additionally, as a result of recent requests from landowners, the power line alignment needs to be diverted in three (3) sections outside of the EA approved power line corridor to follow the boundaries of the affected landowner's properties. As such, amendment of the original EA approved corridor is required.

As the provincial authority, we would like to inform you of the application for amendment of the EA that will be submitted to the Department of Environmental Affairs (DEA) in accordance with the National Environmental Management Act, 1998 (Act No 107 of 1998) – EIA Regulations 2014, as amended.

For further information, please contact SiVEST as follows:

SiVEST Environmental: Shaun Taylor  
Tel: (011) 798 0600  
Fax: (011) 803 7272  
Email: [shaunt@sivest.co.za](mailto:shaunt@sivest.co.za)

Yours sincerely,



Shaun Taylor  
Environmental Scientist  
**SiVEST Environmental Division**

## Shaun Taylor

---

**From:** Tharina Boshoff <TBoshoff@nwpg.gov.za>  
**Sent:** Monday, 26 June 2017 12:26 PM  
**To:** Shaun Taylor  
**Cc:** Portia Krisjan; LDiale@nwpg.gov.za  
**Subject:** Re: NOTIFICATION - 13993 APPLICATION FOR THE AMENDMENT OF THE ENVIRONMENTAL AUTHORISATION FOR THE PROPOSED CONSTRUCTION OF THE MOOKODI-GANYESA 132KV POWER LINE, NEW PROPOSED GANYESA SUBSTATION, NORTH WEST PROVINCE (14/12/16/3/3/1/680/AM1)

Dear Mr Taylor

Thank you for the notification. I have forwarded your e-mail to our Chief Director, Ms Lebo Diale, for her information and also the Director: EQM, Ms Portia Krisjan.

Regards  
Tharina

*Tharina Boshoff*  
*Director: Environmental Policy, Planning & Coordination*  
*NW-READ*  
*Private Bag X2039*  
*Mmabatho*  
*2735*  
*Tel. (018) 389-5656*  
*Fax. 0865035250*  
*0795112320*  
[tboshoff@nwpg.gov.za](mailto:tboshoff@nwpg.gov.za)

>>> Shaun Taylor <ShaunT@sivest.co.za> 6/26/2017 12:15 PM >>>

Dear Mrs. Boshoff

This e-mail serves to inform you that a second amendment application for the Environmental Authorisation (EA) for the above mentioned project in the Northern West Province will be submitted on the 26<sup>th</sup> of June 2017 to the National Department of Environmental Affairs (N DEA) for decision making.

Please find attached the letter providing details for the second EA amendment application submission and reasons thereto.

We would like to thank you for participating in this Amendment and Public Participation process.

Best Regards

**Shaun Taylor**

MSc (Aquatic Health)

Environmental Scientist

**SiVEST Environmental Division**



*SiVEST is a Level 3 BBBEE Contributor*

**Direct** +27 11 798 0691 **Tel** +27 11 798 0600 **fax** +27 11 803 7272 **cell** +27 72 779 4899

**email** [shaunt@sivest.co.za](mailto:shaunt@sivest.co.za) **website** [www.sivest.co.za](http://www.sivest.co.za)

**Consulting Engineers - Project Managers - Environmental Consultants - Town and Regional Planners**  
Durban - Johannesburg - Pietermaritzburg - Richards Bay - Ladysmith - Port Louis (Mauritius)

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Office of the Traditional Council  
Private Bag x507  
Ganyesa  
8613

Your reference: N/A  
Our reference: 13993  
Date: 23 June 2017

**ATTENTION: BAROLONG BA GA LETLHOGILE TLOU LE TAU**

Via Post

Dear Barolong Ba Ga Letlhogile Tlou Le Tau

**APPLICATION FOR THE AMENDMENT OF THE ENVIRONMENTAL AUTHORISATION FOR THE PROPOSED MOOKODI INTEGRATION PHASE 2: CONSTRUCTION OF THE MOOKODI-GANYESA 132KV POWER LINE, NEW PROPOSED GANYESA SUBSTATION AND HAVELOCK LILO, NORTH WEST PROVINCE**

- NEAS REF NO: DEA/EIA/0001402/2012
- DEA REF NO: 14/12/16/3/3/1/680/AM1

Eskom Holdings SOC Limited, (hereafter referred to as 'Eskom') was issued with an Environmental Authorisation (EA) on 02 February 2015 for the proposed construction of the Mookodi-Ganyesa power line, new proposed Ganyesa substation and Havelock Loop in-loop out link, North West Province.

Eskom is applying for an amendment to the recently Amended EA (dated 13th June 2017), as the co-ordinates for the location of the new proposed Ganyesa substation needs to be corrected within the amended EA. The proposed substation co-ordinate details provided in the initial application for amendment of the original EA received by the DEA on the 16th May 2017 were incorrect and therefore need to be amended once more.

Additionally, as a result of recent requests from landowners, the power line alignment needs to be diverted in three (3) sections outside of the EA approved power line corridor to follow the boundaries of the affected landowner's properties. As such, amendment of the original EA approved corridor is required.

As a landowner of the property on which the substation is located, we would like to inform you of the application for amendment of the EA that will be submitted to the Department of Environmental Affairs (DEA) in accordance with the National Environmental Management Act, 1998 (Act No 107 of 1998) – EIA Regulations 2014, as amended.


For further information, please contact SiVEST as follows:

SiVEST Environmental: Shaun Taylor  
Tel: (011) 798 0600  
Fax: (011) 803 7272  
Email: [shaunt@sivest.co.za](mailto:shaunt@sivest.co.za)

Yours sincerely,



Shaun Taylor  
Environmental Scientist  
**SiVEST Environmental Division**

<input type="checkbox"/>	Trace and Track Parcel (CD)	Project Number:
<input type="checkbox"/>	Registered Letter	<b>13993</b>
<input checked="" type="checkbox"/>	Fast Mail	
Addressed To:		Post Office Stamp:
<p>Barolong Ba Ga Letlhogile Tlou Le Tau Office of the Traditional Council Private Bag x507 Ganyesa 8613</p>		
		Tracking Number:

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<p>[Blank address lines]</p>		
		Tracking Number:

Your reference: N/A  
Our reference: 13993  
Date: 26 June 2017

**ATTENTION: LANDOWNER**

Dear Landowner

**APPLICATION FOR THE AMENDMENT OF THE ENVIRONMENTAL AUTHORISATION FOR THE PROPOSED MOOKODI INTEGRATION PHASE 2: CONSTRUCTION OF THE MOOKODI-GANYESA 132KV POWER LINE, NEW PROPOSED GANYESA SUBSTATION AND HAVELOCK LOOP-IN / LOOP-OUT LINK, NORTH WEST PROVINCE**

- NEAS REF NO: DEA/EIA/0001402/2012
- DEA REF NO: 14/12/16/3/3/1/680/AM1

Eskom Holdings SOC Limited, (hereafter referred to as 'Eskom') was issued with an Environmental Authorisation (EA) on 02 February 2015 for the proposed construction of the Mookodi-Ganyesa power line, new proposed Ganyesa substation and Havelock Loop in-loop out link, North West Province.

Eskom is applying for an amendment to the recently Amended EA (dated 13th June 2017), as the co-ordinates for the location of the new proposed Ganyesa substation needs to be corrected within the amended EA. The proposed substation co-ordinate details provided in the initial application for amendment of the original EA received by the DEA on the 16th May 2017 were incorrect and therefore need to be amended once more.

Additionally, as a result of recent requests from landowners, the power line alignment needs to be diverted in three (3) sections outside of the EA approved power line corridor to follow the boundaries of the affected landowner's properties. As such, amendment of the original EA approved corridor is required.

As a landowner of the property on which the proposed power line deviations are located, we would like to inform you of the application for amendment of the EA that will be submitted to the Department of Environmental Affairs (DEA) in accordance with the National Environmental Management Act, 1998 (Act No 107 of 1998) – EIA Regulations 2014, as amended.

For further information, please contact SiVEST as follows:

SiVEST Environmental: Shaun Taylor

Tel: (011) 798 0600

Fax: (011) 803 7272

Email: [shaunt@sivest.co.za](mailto:shaunt@sivest.co.za)

Yours sincerely,

A handwritten signature in black ink, appearing to read "Shaun Taylor".

Shaun Taylor  
Environmental Scientist  
**SiVEST Environmental Division**

## Shaun Taylor

---

**From:** sivest\_PPP  
**Sent:** Monday, 26 June 2017 3:07 PM  
**Cc:** Shaun Taylor  
**Subject:** NOTIFICATION - AMENDMENT OF THE ENVIRONMENTAL AUTHORISATION FOR THE PROPOSED MOOKODI INTEGRATION PHASE 2: CONSTRUCTION OF THE MOOKODI-GANYESA 123KV POWER LINE, NEW PROPOSED GANYESA SUBSTATION AND HAVELOCK LILO, NORTH WEST PROVINCE (NEAS REF NO: DEA/EIA/00)

**\*\*\*\*\* Please note that this email was sent from a NO REPLY email address. Please do not reply to this address as it is an unmonitored email account.\*\*\*\*\***

Good Day Landowner,

This e-mail serves to inform you that a second amendment application for the Environmental Authorisation (EA) for the above mentioned project in the Northern West Province will be submitted on the 26th of June 2017 to the National Department of Environmental Affairs (N DEA) for decision making.

Please find attached the letter providing details for the second EA amendment application submission.

We would like to thank you for participating in this Amendment and Public Participation process.



Kind Regaeds,  
**Shaun Taylor**  
MSc (Aquatic Health)  
Environmental Scientist  
**SiVEST Environmental Division**



*SiVEST is a Level 3 BBBEE Contributor*


**Direct** +27 11 798 0691 **Tel** +27 11 798 0600 **fax** +27 11 803 7272  
**email** [shaunt@sivest.co.za](mailto:shaunt@sivest.co.za) **website** [www.sivest.co.za](http://www.sivest.co.za)





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**Consulting Engineers - Project Managers - Environmental Consultants - Town and Regional Planners**  
Durban - Johannesburg - Pietermaritzburg - Richards Bay - Ladysmith - Port Louis (Mauritius)


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<p>Mr Danie Kuhn DANIE KUHN TRUST P.O Box 2402 VRYBURG 8600</p>		

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<p>Mr Lukas Van Der Nest PO Box 35 WARDEN 9890</p>		

<input type="checkbox"/>	Trace and Track Parcel (CD)	Project Number:
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<input checked="" type="checkbox"/>	Fast Mail	
Addressed To:		Post Office Stamp:
<hr/> <hr/> <hr/> <hr/> <hr/> <hr/>		
<p>Mr Chief Private Bag x507 GANYESA 8613</p>		