

# EMKHIWENI SUBSTATION AND 400KV LINE FROM EMKHIWENI SUBSTATION TO SILIMELA

## Application Form for Environmental Authorisation

April 2018

Prepared for: Eskom Holdings SOC Ltd

Original Document



Environmental, Social and OHS Consultants

P.O. Box 1673    147 Bram Fisher Drive    Tel: 011 781 1730  
Sunninghill    Ferndale    Fax: 011 781 1731  
2157    2194    Email: info@nema.co.za



**Departmental Details**

The application must be addressed to the Chief Directorate: Integrated Environmental Authorisations at:

**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 addressed to the contact below:

E-mail: [EIAAdmin@environment.gov.za](mailto: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> for the latest version of the documents.

## 2. PROJECT DESCRIPTION

Please provide a detailed description of the project.

### Project Background

Nemal Consulting was appointed by Eskom in 2009 to undertake the EIA as part of the 2006 EIA Regulations for the following projects:

1. Construction of the Rockdale B Substation (now referred to as Emkhiweni Substation), with 2x500MVA 400/132kV transformers; and
2. Construction of the Rockdale B to Wolwekraal 400kV line (now referred to as the Emkhiweni Substation to Sillmela 400kV line).

The projects were authorised in May 2011 (Emkhiweni Substation) and July 2011 (Emkhiweni-Sillmela 400kV line). Eskom has decided to proceed with the construction of Emkhiweni-Sillmela 400kV line (which is approximately 80kms) however the previous Record of Decision (RoD) has lapsed. Therefore Nemal Consulting are undertaking a new application for Environmental Authorisation (EA) as part of the 2014 EIA Regulations, as amended (07 April 2017).

### Project Motivation

There are two transmission subsystems in the Mpumalanga and Limpopo Provinces, these are known as "Highveld North West" and "Lowveld North". These subsystems are interconnected and are currently experiencing several problems:

- The lines in the study area are heavily loaded, i.e. if maintenance is required or there is a fault on the line the remaining lines may exceed their thermal limits, as a result load shedding would become necessary;
- The transfer capacity is insufficient;
- An existing substation called Rockdale reached its firm capacity in 2007;
- The distribution network supplied by the Vulcan substations is passing through a burning ground and the network is failing, therefore these lines need to be diverted to other supply sources;
- The distribution network in the Marble Hall area is experiencing low voltage problems; and
- The Proposed Steelpoort (Tubatse) Pumped Storage Scheme requires Transmission network strengthening.

To combat these problems, several phased projects for which environmental assessments have been authorised, have been undertaken and include:

- Mokopane to Wolwekraal 400kV power line and associated secondary infrastructure;
- Steelpoort to Wolwekraal 400kV power line and associated secondary infrastructure; and
- Wolwekraal substation and associated secondary infrastructure.

Once these projects are implemented the following would have been achieved:

1. The network security will be improved;
2. Capacity for future load increases would be created; and
3. Eskom's revenue would be increased.

### Project Description

The distribution network in the Marble Hall area is supplied from the Siplon substation, this network is currently experiencing low voltage problems. In future the Siplon and Rockdale substations will supply additional power to the network, however this additional power cannot be supported by the existing network without violating its operational limits.

The Emkhiweni Substation and Emkhiweni-Sillmela 400kV Line provides the means to support the additional power supply within operational limits.

Rockdale is an existing substation located to the southwest of Middleburg near the N11. The transmission lines that feed into it are the two Amot – Rockdale 275kV lines. The firm capacity at the Rockdale substation is 500MVA and was exceeded in 2007. The new loads at the substation cannot be accommodated without violating the loading conditions of the transformers, which are 45 years old. The existing Rockdale substation also does not have the correct busbar arrangement. If a single transformer is lost, load shedding would be necessary. If a transformer needs to be maintained then this would also result in load shedding. Additional power demands are expected for the Rockdale substation, however due to the abovementioned problems these cannot be accommodated.

#### 400kV Line

A power line typically consists of pylons, which are tower-like structures that support electrical cables above the ground. The distance between each pylon is dependent on the type of terrain the lines cross. The standard width of a servitude for a 400kV Transmission line is 55m (27.5m on either side of the powerline).

In order for maintenance staff to access the lines and undertake routine maintenance or repair faults, it may be necessary to construct access roads. To protect the surrounding landscape from soil erosion storm water infrastructure may be required.

There are several types of towers/pylons. The types of pylons chosen for the project depend on several factors, these include:

- Terrain;
- Expense; and
- Recommendations from the visual specialist.

Eskom tries not to bind themselves to one tower/pylon type during the environmental assessment in case another type, based on the factors mentioned above, would be more suitable. Below are several examples of 400kV powerline types, which might be used.

#### Associated Infrastructure for the 400kV Line

The Emkhiweni Substation and Emkhiweni-Silimela 400kV Line would link into the proposed Wolwekraal substation in the north and the proposed Emkhiweni substation in the south.

To link the substations to the power lines, loop-in lines are required. These loop-in lines do not form part of this power line application but are part of both of the substation applications. The location of the loop-in lines depend on which route alternative (for the power line) and locality alternative (for the substation) are the preferred alternatives. Determining a loop-in line route is therefore a lengthy process and for the Emkhiweni-Silimela 400kV Line connection to the proposed Wolwekraal and Emkhiweni substation, this could only be determined after specialist studies had been undertaken, i.e. after the Scoping phase.

Very few new access roads may be required during installation of some sections of the towers and powerline; however, Eskom have advised that these access roads do not exceed any thresholds in terms of the EIA Regulations of 2014, as amended (07 April 2017).

#### Emkhiweni Substation

The proposed Emkhiweni substation would support the existing Rockdale substation. The proposed Emkhiweni substation would have a 1km x 1km footprint which would include the following:

- Two 400kV loop-in lines;
- Loop-in lines to the Arnot Vulcan power line;
- Offices and control rooms;
- Transformers;
- Breakers;
- Other equipment necessary for connecting the 400kV lines to the substation and the 132kV lines out of the substation; and
- Loop-in lines.

Does the project form part of any of the Strategic Infrastructure Projects (SIPs) as described in the National Development Plan, 2011?

YES



If YES, please indicate which SIPs are applicable in **Appendix 2**. You are also required to provide confirmation of SIP applications from the relevant sector representative which must be attached in **Appendix 2**

Is the project subject to the Integrated Resource Plan 2010 – 2030 (IRP) bidding process?

NO



Please indicate which sector the project falls under by crossing out the relevant block in the table below:

Responsible person name (If the applicant is a company):

Applicant/ Responsible person ID number:

Responsible position, e.g. Director, CEO, etc.:

Physical address:

Postal address:

Postal code:

Telephone:

E-mail:

Annah Kawadza

7806260493088

Programme Manager

Megawatt Park, Maxwell Drive, Sunninghill, Johannesburg

P O Box 1091, Johannesburg

2000

Cell:

011 800 4057

Fax:

011 800 3917

Kawadza@eskom.co.za

Provincial Authority:

Contact person:

Postal address:

Postal code:

Telephone:

E-mail:

Limpopo Department of Economic Development, Environment and Tourism

Ms Aluwani Khorombi

Private Bag X 9484, Polokwane

0700

Cell:

015 293 8300

Fax:

015 293 8319

KhorombiA@ledet.gov.za

Provincial Authority:

Contact person:

Postal address:

Postal code:

Telephone:

E-mail:

Mpumalanga Department of Agriculture, Rural Development, Land and Environmental Affairs

Hon. V.R. Shongwe

Private Bag X 11219, Nelspruit

1200

Cell:

013 766 6074

Fax:

013 766 8429

mathebulazc@mpg.gov.za; AkoojeeAA@mpg.gov.za

Local municipality:

Contact person:

Postal address:

Postal code:

Telephone:

E-mail:

Refer to Appendix 3.

In instances where there is more than one local authority involved, please attach a list of those local authorities with their contact details as **Appendix 3**.

Landowner:

Contact person:

Postal address:

Postal code:

Telephone:

E-mail:

Refer to Appendix 4.

In instances where there is more than one landowner, please attach a list of those landowners with their contact details as **Appendix 4**. Unless the application is in respect of linear activities or strategic integrated projects as contemplated in the Infrastructure Development Act, 2014, written consent of landowner/s must be submitted in **Appendix 4**.

Identified Competent Authority to consider the application:

Reason(s) in terms of S24C of NEMA 1998 as amended:

Department of Environmental Affairs (DEA)

The Minister of the Department of Environmental Affairs is the Competent Authority to decide on applications submitted by organs of state. Eskom Holdings SOC Ltd. is an organ of state.

Refer to Appendix 5.

1	2	3	4	5
Are there any other applications for Environmental Authorisation on the same property?				NO ✓
If YES, please indicate the following:				
Competent Authority				
Reference Number				
Project Name				
Please provide details of the steps taken to ascertain this information:				
Not Applicable.				

## 6. ACTIVITIES TO BE AUTHORISED

For an application for authorisation that involves more than one listed activity that, together, make up one development proposal, all the listed activities pertaining to this application must be indicated.

Detailed description of listed activities associated with the project	
Listed activity as described in GN R 983, 984 and 985	Description of project activity that triggers listed activity
<p><b>e.g. GN R.983 Item XX(x): The development of bridge exceeding 100 square metres in size within a watercourse</b></p> <p><b>GN No. 983 (04 December 2014 of NEMA) Item No. 12 (ii):</b></p> <p>The development of— (ii) infrastructure or structures with a physical footprint of 100 square metres or more;</p> <p>where such development occurs— (a) within a watercourse, excluding— (aa) the development of infrastructure or structures within existing ports or harbours that will not increase the development footprint of the port or harbour; (bb) where such development activities are related to the development of a port or harbour, in which case activity 26 in Listing Notice 2 of 2014 applies; (cc) activities listed in activity 14 in Listing Notice 2 of 2014 or activity 14 in Listing Notice 3 of 2014, in which case that activity applies; (dd) where such development occurs within an urban area; (ee) where such development occurs within existing roads, road reserves or railway line reserves; or (ff) the development of temporary infrastructure or structures where such infrastructure or structures will be removed</p>	<p><b>e.g. A bridge measuring 110 square metres will be constructed within the watercourse</b></p> <p>A few of the proposed tower structures will fall within watercourses and will have an overall footprint above 100 square metres, the exact footprint is to be determined in the EIA Phase.</p>

<p>complex excluding the development of bypass infrastructure for the transmission and distribution of electricity where such bypass infrastructure is —</p> <ul style="list-style-type: none"> <li>(a) temporarily required to allow for maintenance of existing infrastructure;</li> <li>(b) 2 kilometres or shorter in length;</li> <li>(c) within an existing transmission line servitude; and</li> <li>(d) will be removed within 18 months of the commencement of development.</li> </ul>	
<p><u>GN No. 985 (04 December 2014 of NEMA) Item No. 12 (a)(ii));</u></p> <p>The clearance of an area of 300 square metres or more of indigenous vegetation except where such clearance of indigenous vegetation is required for maintenance purposes undertaken in accordance with a maintenance management plan.</p> <p>e) Limpopo</p> <ul style="list-style-type: none"> <li>i. Within any critically endangered or endangered ecosystem listed in terms of section 52 of the NEMBA or prior to the publication of such a list, within an area that has been identified as critically endangered in the National Spatial Biodiversity Assessment 2004;</li> <li>ii. Within critical biodiversity areas identified in bioregional plans; or</li> <li>iii. On land, where, at the time of the coming into effect of this Notice or thereafter such land was zoned open space, conservation or had an equivalent zoning.</li> </ul> <p>f) Mpumalanga</p> <ul style="list-style-type: none"> <li>i. Within any critically endangered or endangered ecosystem listed in terms of section 52 of the NEMBA or prior to the publication of such a list, within an area that has been identified as critically endangered in the National Spatial Biodiversity Assessment 2004;</li> <li>ii. Within critical biodiversity areas identified in bioregional plans; or</li> <li>iii. On land, where, at the time of the coming into effect of this Notice or thereafter such land was zoned open space, conservation or had an equivalent zoning or proclamation in terms of NEMPAA.</li> </ul>	<p>The proposed development will require the clearance of more than 300 square metres within sensitive areas such as threatened ecosystems, CBAs and conservation areas.</p>
<p><u>GN No. 985 (04 December 2014 of NEMA) Item No. 14;</u></p> <p>The development of—</p> <ul style="list-style-type: none"> <li>(ii) infrastructure or structures with a physical footprint of 10 square metres or more; where such development occurs—</li> <li>(a) within a watercourse;</li> </ul>	<p>The proposed development will involve lower structures within watercourses which fall within or near sensitive areas such as protected areas and CBAs.</p>



Number	Category of Local	Name	Language
1	Regional	The Star	English
2	Regional	The Citizen	English
3	Regional	Die Beeld	Afrikaans
4	Regional	The Sowetan	English
5	Local	Middelburg Observer	English
6	Local	Daller	English
7	Local	Polokwane Observer	English

A database of IAPs, which includes Authorities, different spheres of government (national, provincial and local), the Local Ward Councillors, stakeholders, landowners, interest groups and members of the general public, will be prepared by Nema Consulting.

IAPs will be granted an opportunity to review and comment on the Draft Scoping Report (DSR). A hard copy of the report will be made available. Copies of the DSR will be provided to the Municipality, as well as Provincial and National Governmental Departments. Notices will contain the following information:

- DSR review period - IAPs and Commenting Authorities will be given 30 days to submit comments on the report;
- Venues/electronic links where hard copies of the DSR can be reviewed; and
- Details of the review process for the DSR.

#### Second Notification - Public Review of the Draft EIA Report

Registered IAPs will be granted an opportunity to review and comment on the Draft EIA Report. The same process as above for the Scoping Phase applied for the Draft EIA Report.

#### Final Public Notification

Nema Consulting will notify all the registered IAPs of the Department's decision and the Appeal period. These notifications will include the appeal procedure to the decision and key reasons for the decision. A copy of the decision will also be provided to the registered IAPs on request. Notification letters will be prepared and sent to the registered IAPs contained in the database. These letters will contain the following information:

- The outcome of the application and reasons for decision;
- Details on where the decision can be accessed; and
- An explanation of the appeal procedure and timeframes.

Newspaper advertisements will also be placed in the same newspapers as the original notification highlighting the same information as above.

### 8. OTHER AUTHORISATIONS REQUIRED

LEGISLATION	AUTHORISATION REQUIRED	APPLICATION SUBMITTED
<b>SEMA's</b>		
National Environmental Management: Air Quality Act	NO ✓	
National Environmental Management: Biodiversity Act	NO ✓	
National Environmental Management: Integrated Coastal Management Act	NO ✓	
National Environmental Management: Protected Areas Act	NO ✓	
National Environmental Management: Waste Act	NO ✓	
<b>National legislation</b>		
Mineral Petroleum Development Resources Act	NO ✓	
National Water Act	NO	



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



147 Bram Fischer Drive  
FERNDALE  
2194

P O Box 1673  
SUNNINGHILL  
2157

Tel: 011 781 1730  
Fax: 011 781 1731  
[www.nemai.co.za](http://www.nemai.co.za)

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**Reference:** 10643-2018406-Motivation for Exclusion

06 April 2018

Department of Environmental Affairs  
Environment House  
473 Steve Biko  
PRETORIA  
0083

**ATTENTION:** Director, Integrated Environmental Authorisations

**RE:** MOTIVATION FOR EXCLUSION OF PAYMENT FEE FOR APPLICATION FOR ENVIRONMENTAL AUTHORISATION FOR THE PROPOSED EMKHIWENI SUBSTATION AND 400KV LINE FROM EMKHIWENI SUBSTATION TO SILIMELA

Dear Sir/Madam

The Applicant for this project is Eskom Holdings (SOC) Ltd, a State Owned Company, and is thus exempt from paying the application fee applicable for the attached Environmental Authorisation Application.

If you require further information, please do not hesitate to contact the undersigned.

Yours Sincerely,  
**Nemai Consulting**

Kristy Robertson

Environmental Assessment Practitioner

**APPENDIX 2  
STRATEGIC INFRASTRUCTURE PROJECTS**

**SIP 1: Unlocking the northern mineral belt with Waterberg as the catalyst**

- Unlock mineral resources
- Rail, water pipelines, energy generation and transmission infrastructure
- Thousands of direct jobs across the areas unlocked
- Urban development in Waterberg - first major post-apartheid new urban centre will be a "green" development project
- Rail capacity to Mpumalanga and Richards Bay
- Shift from road to rail in Mpumalanga
- Logistics corridor to connect Mpumalanga and Gauteng.

**SIP 2: Durban-Free State-Gauteng logistics and industrial corridor**

- Strengthen the logistics and transport corridor between SA's main industrial hubs
- Improve access to Durban's export and import facilities
- Integrate Free State Industrial Strategy activities into the corridor
- New port in Durban
- Aerotropolis around OR Tambo International Airport.

**SIP 3: South-Eastern node & corridor development**

- New dam at Mzimvubu with irrigation systems
- N2-Wild Coast Highway which improves access into KwaZulu-Natal and national supply chains
- Strengthen economic development in Port Elizabeth through a manganese rail capacity from Northern Cape
- A manganese sinter (Northern Cape) and smelter (Eastern Cape)
- Possible Mithombo refinery (Coega) and transshipment hub at Ngqura and port and rail upgrades to improve industrial capacity and performance of the automotive sector.

**SIP 4: Unlocking the economic opportunities in North West Province**

- Acceleration of investments in road, rail, bulk water, water treatment and transmission infrastructure
- Enabling reliable supply and basic service delivery
- Facilitate development of mining, agricultural activities and tourism opportunities
- Open up beneficiation opportunities in North West Province.

**SIP 5: Saldanha-Northern Cape development corridor**

- Integrated rail and port expansion
- Back-of-port industrial capacity (including an IDZ)
- Strengthening maritime support capacity for oil and gas along African West Coast
- Expansion of iron ore mining production and beneficiation.

**SIP 6: Integrated municipal infrastructure project**

Develop national capacity to assist the 23 least resourced districts (19 million people) to address all the maintenance backlogs and upgrades required in water, electricity and sanitation bulk infrastructure. The road maintenance programme will enhance service delivery capacity thereby impacting positively on the population.

**SIP 7: Integrated urban space and public transport programme**

Coordinate planning and implementation of public transport, human settlement, economic and social infrastructure and location decisions into sustainable urban settlements connected by densified transport corridors. This will focus on the 12 largest urban centres of the country, including all the metros in South Africa. Significant work is underway on urban transport integration.



**SIP 16: SKA & Meerkat**

SKA is a global mega-science project, building an advanced radio-telescope facility linked to research infrastructure and high-speed ICT capacity and provides an opportunity for Africa and South Africa to contribute towards global advanced science projects.

**SIP 17: Regional Integration for African cooperation and development**

Participate in mutually beneficial infrastructure projects to unlock long-term socio-economic benefits by partnering with fast growing African economies with projected growth ranging between 3% and 10%.

The projects involving transport, water and energy also provide competitively-priced, diversified, short and medium to long-term options for the South African economy where, for example, electricity transmission in Mozambique (Cesul) could assist in providing cheap, clean power in the short-term whilst Grand Inga in the DRC is long-term.

All these projects complement the Free Trade Area (FTA) discussions to create a market of 600 million people in South, Central and East Africa.

**SIP 18: Water and sanitation infrastructure**

A 10-year plan to address the estimated backlog of adequate water to supply 1.4m households and 2.1m households to basic sanitation.

The project will involve provision of sustainable supply of water to meet social needs and support economic growth. Projects will provide for new infrastructure, rehabilitation and upgrading of existing infrastructure, as well as improve management of water infrastructure.

**APPENDIX 4  
LIST OF LAND OWNERS  
WRITTEN CONSENT OF LAND OWNERS**

### SUBSTATION LANDOWNER DATABASE

No.	21 Drill Code	Property Description	Originator/Trust	Name	Surname	Account/Work Number	Mobile Number	Postal Address	Physical Address	Email Address	Comments
1	ITUS000000003100274	Reson 1.6.1 Farm, Bannerman 314.05	INGWIE SURFACE HOLDINGS LTD	DMAN		01 376530	07 607 5073				
2	ITUS000000003100004	Reson 4.2 Farm, Bannerman 314.05	INGWIE SURFACE HOLDINGS LTD & FAURETOSK COLLIERIES PTY LTD	DMAN		01 376530	07 607 5073				



### LOOP in LINES LANDOWNER DATABASE

No	21 Dist Code	Property Description	Original/Part/Trust	Name	Surname	Home/Work Number	Mobile Number	Postal Address	Physical Address	Email Address	Comments
1	TU.S00000000003140014	Parcel 34 of Farm 34000000 314 5	<b>JAMES SURFACE HOLDINGS LTD</b>	Derick	Scott	01 276230	07 677 9273				
2	TU.S000000000031500024	Parcel 34 of Farm 34000000 314 5	9 HP BULLION ENERGY COAL SOUTH <b>ARIC LTD</b>	Mushood		01 276230					
3	TU.S000000000031400002	Parcel 2 of Farm 34000000 314 5	MOYLE SURFACE HOLDINGS LTD & TANSTOCK COLLIERIES PTY LTD	Derick <b>JAMES MQUSTON</b>	Scott MURRA	01 276230 01 4407 03	07 677 9273 002-682527	PO BOX 652897 DENMORE 2010	35 SOUTH HAVILE PARKTOWN DUNN, JAMAICA, JCI, 218		



**APPENDIX 5**  
**LIST OF SGIDS / COORDINATES OF THE BOUNDARY OF THE PROPERTY OR PROPERTIES**  
**(WHERE SGID AND FARM NAME ARE NOT AVAILABLE)**



## SUBSTATION LANDOWNER DATABASE

No.	21 Ddit Code	Property Description
1	T0JS00000000031400014	Portion 14 of Farm Rietfontein 314 JS
2	T0JS00000000031400004	Portion 4 of Farm Rietfontein 314 JS

## LOOP in LINES LANDOWNER DATABASE

No.	21 Ddit Code	Property Description
1	T0JS0000000003140014	Portion 14 of Farm Rietfontein 314 JS
2	T0JS0000000003150034	Portion 34 of Farm Goedehoop 315 JS
3	T0JS0000000003140002	Portion 2 of Farm Rietfontein 314 JS

## 55m SERVITUDE LANDOWNER DATABASE

No.	21 Digit Code	Property Description
1	TOJS0000000031400014	Portion 14 of Farm Rietfontein 314 JS
2	TOJS0000000031400002	Portion 2 of Farm Rietfontein 314 JS
3	TOJS0000000031400017	Portion 17 of Farm Rietfontein 314 JS
4	TOJS0000000031400031	Portion 31 of Farm Rietfontein 314 JS
5	TOJS0000000029100019	Portion 19 of Farm Elandspruit 314 JS
6	TOJS0000000031400034	Portion 34 of Farm Rietfontein 314 JS
7	TOJS0000000028700027	RE of Portion 27 of Middleburg Town and Townlands 287 JS
8	TOJS0000000029000002	Portion 2 of Farm Uitkyk 290 JS
9	TOJS0000000029000007	Portion 7 of Farm Uitkyk 290 JS
10	TOJS0000000028600001	RE of Portion 1 of Farm Rietfontein 286 JS
11	TOJS0000000028600004	Portion 4 of Farm Rietfontein 286 JS
12	TOJS0000000028600012	RE of Portion 12 of Farm Rietfontein 286 JS
13	TOJS0000000028600009	Portion 9 of Farm Rietfontein 286 JS
14	TOJS0000000028600008	Portion 8 of Farm Rietfontein 286 JS
15	TOJS0000000028600000	RE of Farm Rietfontein 286 JS
16	TOJS0000000028600002	Portion 2 of Farm Rietfontein 286 JS
17	TOJS0000000028700363	Portion 363 of Middleburg Town and Townlands 287 JS
18	TOJS0000000028700352	Portion 352 of Middleburg Town and Townlands 287 JS
19	TOJS0000000032000001	Portion 1 of Farm Toevlugt 320 JS
20	TOJS0000000037400044	Portion 44 of Farm Keerom 374 JS
21	TOJS0000000032000000	RE of Farm Toevlugt 320 JS
22	TOJS0000000026800007	Portion 7 of Farm Koelenhof 268 JS
23	TOJS0000000026700019	Portion 19 of Farm Leeuwpootje 267 JS
24	TOJS0000000026700010	Portion 10 of Farm Leeuwpootje 267 JS
25	TOJS0000000026700029	Portion 29 of Farm Leeuwpootje 267 JS
26	TOJS0000000026700004	Portion 4 of Farm Leeuwpootje 267 JS
27	TOJS0000000026700005	Portion 5 of Farm Leeuwpootje 267 JS
28	TOJS0000000026700030	Portion 30 of Farm Leeuwpootje 267 JS
29	TOJS0000000024400009	Portion 9 of Farm Goedehoop 244 JS
30	TOJS0000000024400010	Portion 10 of Farm Goedehoop 244 JS
31	TOJS0000000024400012	Portion 12 of Farm Goedehoop 244 JS
32	TOJS0000000024400000	RE of Farm Goedehoop 244 JS
33	TOJS0000000024400008	Portion 8 of Farm Goedehoop 244 JS
34	TOJS0000000024200000	RE of Farm Moolplaats 242 JS
35	TOJS0000000034100010	Portion 10 of Farm Kliprivier 341 JS
36	TOJS0000000034100003	Portion 3 of Farm Kliprivier 341 JS
37	TOJS0000000034100002	Portion 2 of Farm Kliprivier 341 JS
38	TOJS0000000011800002	Portion 2 of Farm Polfontein 118 JS
39	TOJS0000000011800000	RE of Farm Polfontein 118 JS
40	TOJS0000000011400000	RE of Farm Alpha 114 JS
41	TOJS0000000011500001	Portion 1 of Farm Zeekoegat 115 JS
42	TOJS0000000011500003	Portion 3 of Farm Zeekoegat 115 JS
43	TOJS0000000011500006	Portion 6 of Farm Zeekoegat 115 JS

**APPENDIX 6  
PROJECT MAP**





**EMKHIWENI SUBSTATION  
AND 400KV LINE FROM  
EMKHIWENI SUBSTATION  
TO SILIMELA**

**Surface Water Map**

**Legend**

400kV

Powerline

Substation

Boundary

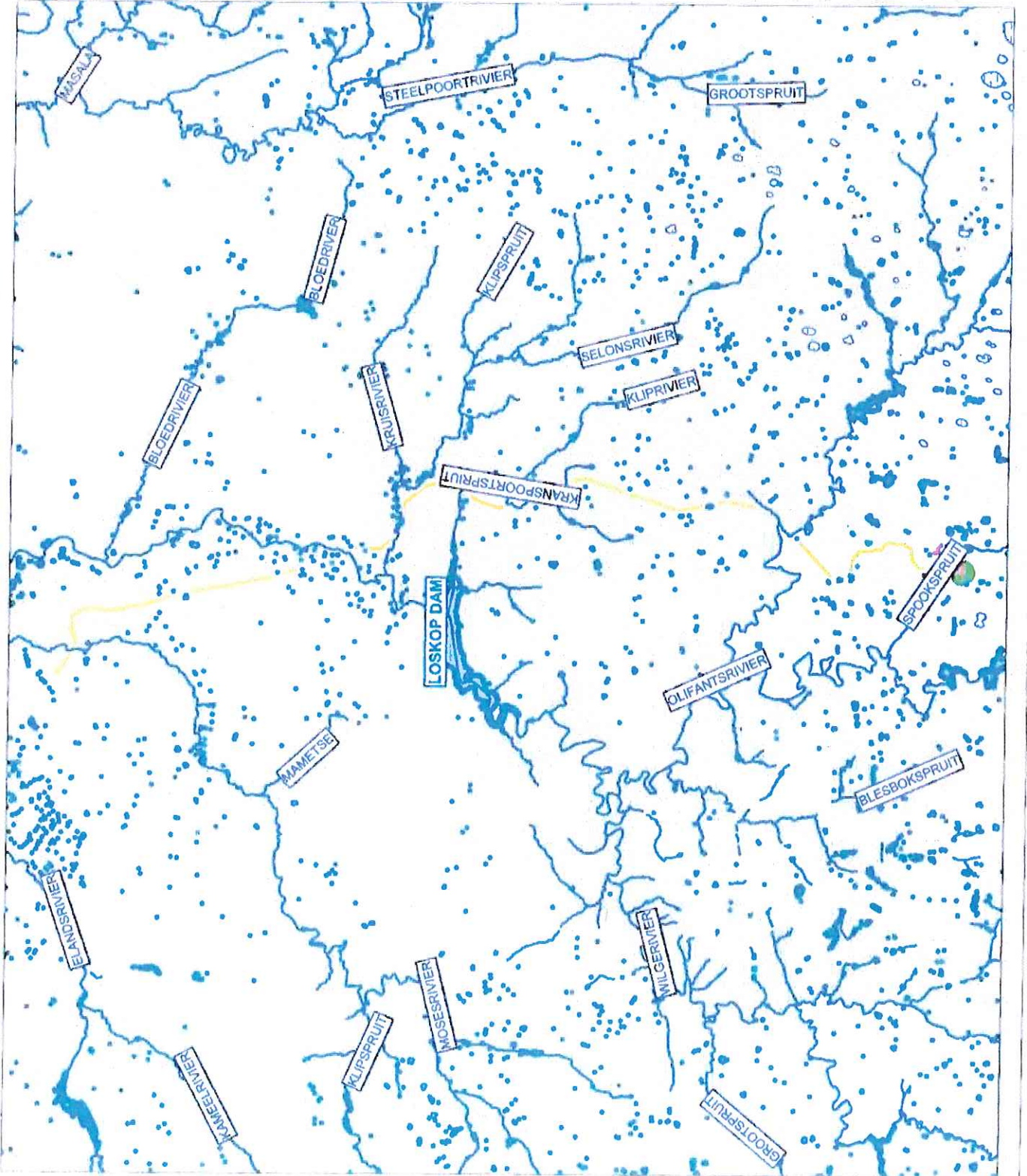
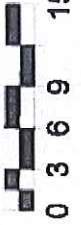
Loop in Lines  
for Substation

Perennial  
center line

Dam

Perennial pan

Scale 1:500000







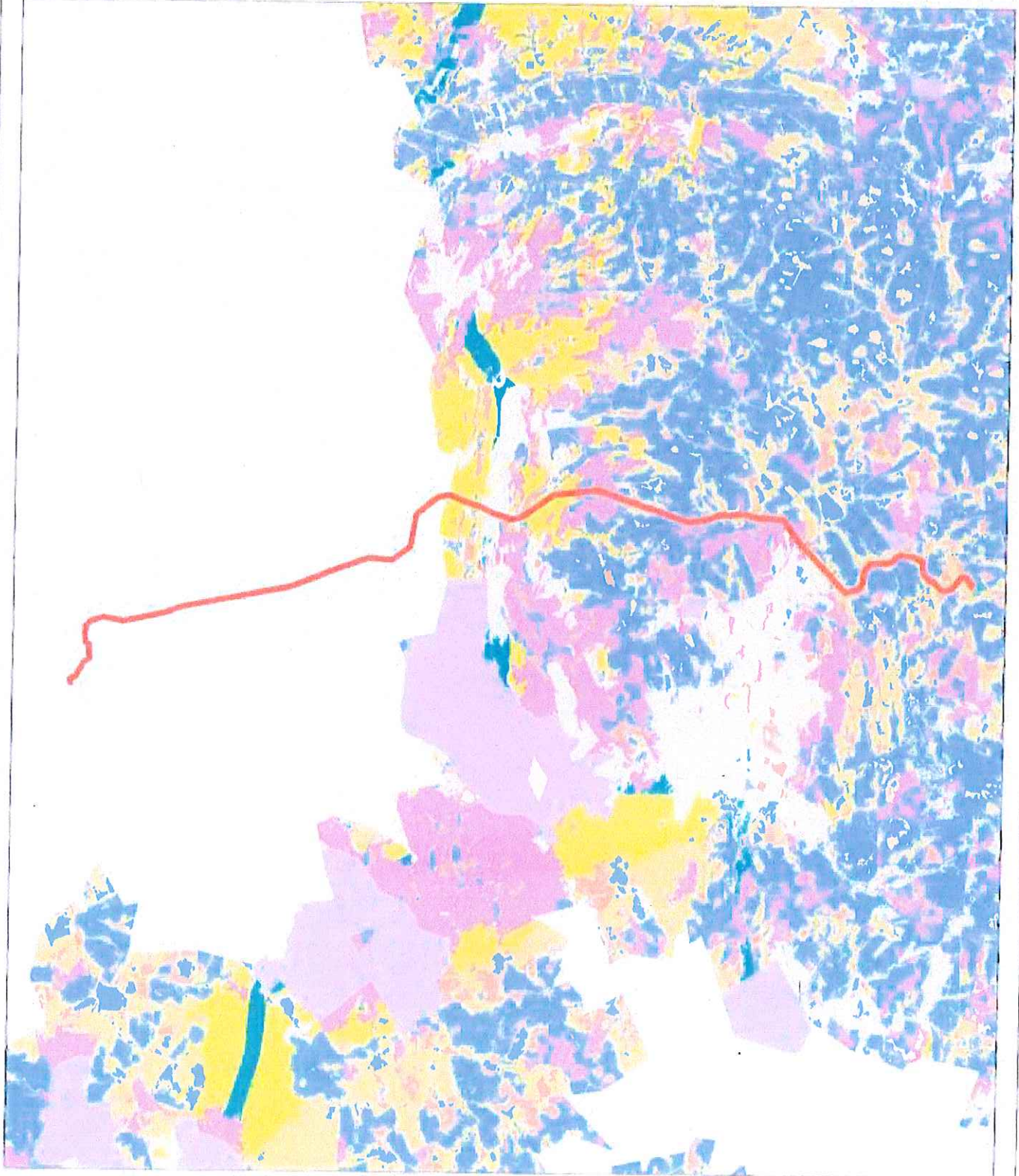
**EMKHIWENI SUBSTATION  
AND 400KV LINE FROM  
EMKHIWENI SUBSTATION  
TO SILIMELA**

**Mpumalanga BSP Map**

**Legend**

- Proposed Substation
- 55m Servitude
- MBSP2
- CBA Irreplaceable
- CBA Optimal
- ESA Landscape corridor
- ESA Local corridor
- ESA Species Specific
- Heavily modified
- Moderately modified
- Old lands
- Other Natural Areas
- Protected Areas

Scale 1:500000



# APPENDIX 7 PROJECT SCHEDULE



**PROGRAMME**  
EIA for the Proposed Enrichment Substation and 400kV Line from  
Enrichment Substation to Salmola

ID	Task Name	Duration	Start	Finish	Predecessors
1	Inception Phase	5 days	Mon 28/08/17	Fri 01/09/17	
2	Inception Meeting	1 day	Mon 28/08/17	Mon 29/08/17	
3	Gather Information	4 days	Tue 29/08/17	Fri 01/09/17	
4	Scoping Phase	189 days	Mon 04/09/17	Fri 06/07/18	
5	Application Form & Scoping Report	163 days	Mon 04/09/17	Thu 17/05/18	
6	Complete Draft Application Form & Draft Scoping Report	38 days	Mon 04/09/17	Wed 25/10/17	
7	Client Review & Amendments	5 days	Thu 25/10/17	Wed 01/11/17	
8	Project on Hold	87 days	Thu 02/11/17	Mon 20/02/18	
9	Client Review and Amendments	20 days	Tue 27/02/18	Tue 27/03/18	
10	Client Approval	2 days	Wed 28/03/18	Thu 28/03/18	
11	IS&Ps Review of Draft Scoping Report	31 days	Tue 03/04/18	Thu 17/05/18	
12	Undertake Public Notification	7 days	Tue 03/04/18	Wed 11/04/18	
13	Submit Application Form and CSR to DEA	2 days	Thu 12/04/18	Fri 13/04/18	
14	Authorities & IAPs Review of CSR	22 days	Mon 16/04/18	Thu 17/05/18	
15	Finalise SR	4 days	Fri 19/05/18	Wed 23/05/18	
16	Submit ISR to DEA	1 day	Thu 24/05/18	Thu 24/05/18	
17	DEA Review and Acceptances	31 days	Fri 25/05/18	Fri 06/07/18	
18	EIA Phase	131 days	Mon 08/07/18	Tue 28/01/19	
19	EIA Report	42 days	Mon 08/07/18	Wed 05/08/18	
20	Responding	13 days	Mon 08/07/18	Wed 25/07/18	
21	Complete Draft EIA Report	8 days	Mon 08/07/18	Wed 19/07/18	
22	Client Review & Amendments	5 days	Thu 19/07/18	Wed 25/07/18	
23	IS&Ps Review of Draft EIA Report	24 days	Thu 26/07/18	Wed 28/08/18	
24	Notification of Review	2 days	Thu 28/07/18	Fri 27/07/18	
25	Authorities & IAPs Review of dEIR	22 days	Mon 30/07/18	Wed 28/08/18	
26	Finalise EIA Report	4 days	Thu 30/08/18	Tue 04/09/18	
27	Submit Final EIA Report to DEA	1 day	Wed 05/09/18	Wed 05/09/18	
28	DEA Review and Decision	77 days	Thu 06/09/18	Fri 11/01/19	
29	IAP Notification & Appeal Period	12 days	Mon 14/01/19	Tue 28/01/19	

**APPENDIX 8  
DECLARATION OF THE APPLICANT**

I, Annah Kawadza, declare that –

- I am, or represent<sup>1</sup>, the applicant in this application;
- I have appointed an Environmental Assessment Practitioner (EAP) to act as the independent EAP for this application / have obtained exemption from the requirement to obtain an EAP<sup>2</sup>;
- I will take all reasonable steps to verify whether the EAP and specialist/s appointed are independent and have expertise in conducting environmental impact assessments or undertaking specialist work as required, including knowledge of the Act, the EIA Regulations and any guidelines that have relevance to the proposed activity;
- I will provide the EAP and the competent authority with access to all information at my disposal that is relevant to the application;
- I will be responsible for the costs incurred in complying with the Regulations, including but not limited to –
  - costs incurred in connection with the appointment of the EAP or any person contracted by the EAP;
  - costs incurred in respect of the undertaking of any process required in terms of the Regulations;
  - costs in respect of any fee prescribed by the Minister or MEC in respect of the Regulations;
  - costs in respect of specialist reviews, if the competent authority decides to recover costs; and
  - the provision of security to ensure compliance with conditions attached to an environmental authorisation, should it be required by the competent authority;
- I will inform all registered interested and affected parties of any suspension of the application as well as of any decisions taken by the competent authority in this regard;
- I am responsible for complying with the conditions of any environmental authorisation issued by the competent authority;
- I hereby indemnify the Government of the Republic of South Africa, the competent authority and all its officers, agents and employees, from any liability arising out of the content of any report, any procedure or any action which the applicant or EAP is responsible for in terms of these Regulations;
- I will not hold the competent authority responsible for any costs that may be incurred by the applicant in proceeding with an activity prior to obtaining an environmental authorisation or prior to an appeal being decided in terms of these Regulations;
- I will perform all obligations as expected from an applicant in terms of the Regulations;
- all the particulars furnished by me in this form are true and correct; and
- I am aware of what constitutes an offence in terms of Regulation 48 and that a person convicted of an offence in terms of Regulation 48(1) is liable to the penalties as contemplated in section 49B of the Act.
- I am aware that in terms of Section 24F of the National Environmental Management Act, Act No 107 of 1998, as amended, that no listed activity may commence prior to an environmental authorisation being granted by the Competent Authority.

  
Signature<sup>3</sup> of the applicant/ Signature on behalf of the applicant

**Eskom Holdings SOC Ltd**

Name of company (if applicable)

29 March 2018

Date:

<sup>1</sup> If this is signed on behalf of the applicant, proof of such authority from the applicant must be attached. If the applicant is a juristic person, a signature on behalf of the applicant is required as well as proof of such authority.

<sup>2</sup> If exemption is obtained from appointing an EAP, the responsibilities of an EAP will automatically apply to the person conducting the environmental impact assessment in terms of the Regulations.

<sup>3</sup> Only original signatures will be accepted. No scanned, copied or faxed signatures will be accepted. An EAP may not sign on behalf of an applicant.



APPENDIX 9  
9.1 DECLARATION OF THE EAP

I, KRISTY ROBERTSON, declare that -

- I act as the independent environmental assessment practitioner in this application;
- I have expertise in conducting environmental impact assessments, including knowledge of the Act, Regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, Regulations and all other applicable legislation;
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant;
- I will take into account, to the extent possible, the matters listed in Regulation 18 of the Regulations when preparing the application and any report relating to the application;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority, unless access to that information is protected by law, in which case it will be indicated that such information exists and will be provided to the competent authority;
- I will perform all obligations as expected from an environmental assessment practitioner in terms of the Regulations; and
- I am aware of what constitutes an offence in terms of Regulation 48 and that a person convicted of an offence in terms of Regulation 48(1) is liable to the penalties as contemplated in section 49B of the Act.

**Disclosure of Vested Interest (delete whichever is not applicable)**

- I do not have and will not have any vested interest (either business, financial, personal or other) in the proposed activity proceeding other than remuneration for work performed in terms of the Regulations;
- ~~I have a vested interest in the proposed activity proceeding, such vested interest being:~~

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



Signature of the environmental assessment practitioner

NEMA CONSULTING

Name of company:

03/04/2018

Date

APPENDIX 9  
9.2 UNDERTAKING UNDER OATH/ AFFIRMATION

I, KRISTY ROBERTSON, swear under oath / affirm that all the information submitted or to be submitted for the purposes of this application is true and correct.

KRISTY  
Signature of the environmental assessment practitioner

NEMAI CONSULTING  
Name of company

03/04/2018  
Date

ABE  
Signature of the commissioner of oaths

04/04/2018  
Date

CERTIFIED A TRUE COPY OF THE ORIGINAL DOCUMENT  
GESERTIFISEER 'N WARE AF SKRIF VAN  
OORSPRONKLIKE DOKUMENT  
**BRENDA PERUMAL**  
MALANI PADAYACHEE AND ASSOCIATES (PTY) LTD  
REG No: 1997 009813 07  
JOHANNESBURG NORTH MAGISTERIAL DISTRICT  
RANDBURG  
REF No 12 04 2018  
EX OFFICIO COMMISSIONER OF OATHS

DATE RECEIVED  
DATE FORWARDED