



CK No. 2004/050201/03
Vat No: 4450221314

Date: 24 January 2017

Dear Sir/Madam

Eskom Transmission is proposing to construct a new 400kV power line between the existing **Foskor Substation in Phalaborwa** and the existing **Spencer Substation in Mohlabaaneng**. This new line will traverse several farms in the area lying between Phalaborwa and Mohlabaaneng. Attached please find a copy of the list of farms we have compiled that may be affected by the new power line.

Your farm may potentially be affected by the proposed power line. You are requested to carefully go through the list of farms and if you are a potentially affected or are an interested party in the project, please complete the attached registration/reply sheet and return it to **Moses Mahlangu** (082 854 9538) or **Calvin Netshaulu** (076 240 8750) at:

By email: delno@telkomsa.net or calvinTN@telkomsa.net

By fax: (013) 656 2233

By post: PO Box 12822, Leraatsfontein, 1038

Registering as an **Interested or Affected Party** will ensure that you receive further information on the project and get invitations to planned Public Meetings to discuss the project.

Your participation in the EIA process is greatly valued. It is about your environment.

Regards

Calvin Netshaulu

Diges Group

PO Box 12822, Leraatsfontein, 1038

Tel: (013) 656 1212 Fax: (013)656 2233

Cell: 076 240 8750 Email: calvinTN@telkomsa.net



Background Information Document

Environmental Impact Assessment for the Proposed Construction of a 400kV Transmission Power Line from Foskop Substation (Phalaborwa) to Spencer Substation (near Giyani) and Spencer MTS Upgrading, Limpopo Province

AIM OF THIS DOCUMENT

This document provides you with an overview of the various aspects of the environmental studies to be undertaken for the proposed Eskom Transmission project. Information included here should provide the Interested and/or Affected Parties (I&APs) with sufficient information to participate in the study by giving:

- ▶ A description of the key activities which form part of the environmental impact assessment;
- ▶ A description of the potential impacts associated with the construction & operation of the power lines and substations.
- ▶ A map of the study area showing the various route corridors for the proposed transmission power lines.

BACKGROUND TO THE PROPOSED PROJECT

Load forecast conducted in 2015 showed that Spencer Main Transmission Substation (MTS) will be having a peak demand of 310MV by year 2018. The substation falls under Nzhelele/ Thohoyandou zone which services an area experiencing growth due to Electrification, Agriculture, Industrial, Diamond and Coal Mining.

To ensure the reliability of electricity supply to customers Eskom Transmission has embarked on a drive to address the transmission constraints at Spencer MTS as well as the 275kV transmission network constraints on the network supplying the substation.

The current situation at Spencer MTS is:

- Spencer MTS equipped with 2x250MVA, 275/132kV transformers.
- Spencer MTS is currently fed from Tabor MTS (86km) and Witkop MTS (138km).

PROJECT DETAILS

The scope of the project entails:

- The construction of a new 400kV power line from Foskop MTS to Spencer MTS
- The upgrading of Spencer MTS

The technical details of the 400kV power line are:

- Length of Power lines: ± 120 km
- Servitude: 55m
- Tower to Tower span: 300m – 350m
- Height of Tower: between 30m-35m
- Minimum conductor ground clearance: 8.1m

The technical details of the substation are:

- The expansion of the substation footprint/yard to accommodate new equipment
- The installation of 1x500MVA, 400/132kV transformer at Spencer MTS



ENVIRONMENTAL IMPACT ASSESSMENT

(Full EIA: Scoping and EIA)

LEGAL REQUIREMENT: This project will follow the 2014 EIA Regulations (GNR982). The project will trigger activities in Listing Notice 1 (983) and 2 (R984) which means that the project will undergo a full Scoping and EIA process. The proposed construction of the power lines and upgrade of the existing Spencer MTS will trigger the following listed activities:

GOVERNMENT NOTICE No. R984 LISTING No. 2 OF EIA REGS 2014	
GNR.983, Item 14: <i>The development of facilities or infrastructure, for the storage, or for the storage and handling of a dangerous good, where such storage occurs in containers with a combined capacity of 80 cubic meters or more but not exceeding 500 cubic metres</i>	The oil holding dam for the 400/132kV transformer has a capacity of 120m ³ .
GNR.983 Item 27: <i>The clearance of an area of 1 hectares or more, but less than 20hectares of indigenous vegetation.</i>	The expansion of the transformation yard requires ±1 ha.
GN R.984 Item 9: <i>The development of facilities or infrastructure for the transmission and distribution of electricity with a capacity of 275 kilovolts or more, outside an urban area or industrial complex.</i>	Construction of ±120km, 400kV power line

The Study Team

Eskom has appointed Diges Group as the independent Environmental Assessment Practitioner (EAP) for this project. The study team is constituted as follows:

- **Diges Group:** Lead consultant
- **Margen Industrial Services:** Public Participation Process
- Various **specialist studies** will be undertaken including
 - Avi-fauna;
 - Agricultural potential
 - Biodiversity;
 - Heritage and Palaeontology;
 - Social Impact Assessment;
 - Tourism Impact Assessment;
 - Visual; and
 - Wetlands.



GENERIC ISSUES ASSOCIATED WITH TRANSMISSION POWER LINES AND SUBSTATIONS

The table below is a list of issues that often arises on Eskom power lines and substation projects. The significance of these impacts and the way they impact on I&APs will be investigated during the EIA phase.

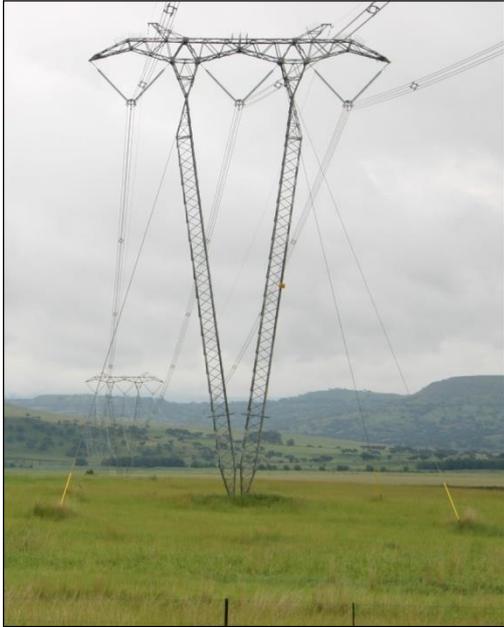
Issue/Concern	Remarks
Economic	<ul style="list-style-type: none"> • Job creation • Local opportunities
Safety	<ul style="list-style-type: none"> • Veld fire • Health and Safety • Electromagnetic field
Land Issues and Compensation	<ul style="list-style-type: none"> • Compensation for acquired servitude • Property value reduction
Aesthetic	<ul style="list-style-type: none"> • Visual impact • Loss of sense of place
Farming related issues	<ul style="list-style-type: none"> • Loss of agricultural land
Natural environment and heritage	<ul style="list-style-type: none"> • Impacts on fauna; flora; birds; historical and heritage sites
Social and well being	<ul style="list-style-type: none"> • Relocation of people • In-migration of construction workers
Technical	<ul style="list-style-type: none"> • Underground cabling

PUBLIC PARTICIPATION ACTIVITIES

Planned Public Participation Activities for the Scoping Phase are as follows:

- Identify stakeholders in different sectors of society and invite them to register as Interested and or Affected Parties (I&APs)
- Make available information such as the Background Information Document (BID) that explains the need for the project and the process that will be followed during the EIA study.
- Newspaper advertisements will be published informing the public of the process and inviting stakeholders to register as I&APs.
- Telephonic consultation will be done with registered stakeholders where necessary.
- Focus Group Meetings with key stakeholders and directly affected landowners may take place.
- Public meetings and will be held in the study area. Registered stakeholders will be informed about the details of meetings to be held.
- Draft Scoping Report will be placed at different public places in the study area for public review. What about the FSR, DEIAR, EMPPr and FEIAR
- Registered I&APs will receive all information dissemination documents throughout the study period.

TYPICAL STRUCTURES WHICH COULD BE USED FOR THE TRANSMISSION POWER LINE CONSTRUCTION



Guyed V 400kV Tower Design



Cross-rope Suspension Tower Design



Self-supporting Tower Design

PUBLIC INVOLVEMENT OFFICE CONTACT DETAILS

Diges Group
PO Box 12822,
Leraatsfontein, 1038

Tel: (013) 656 1212

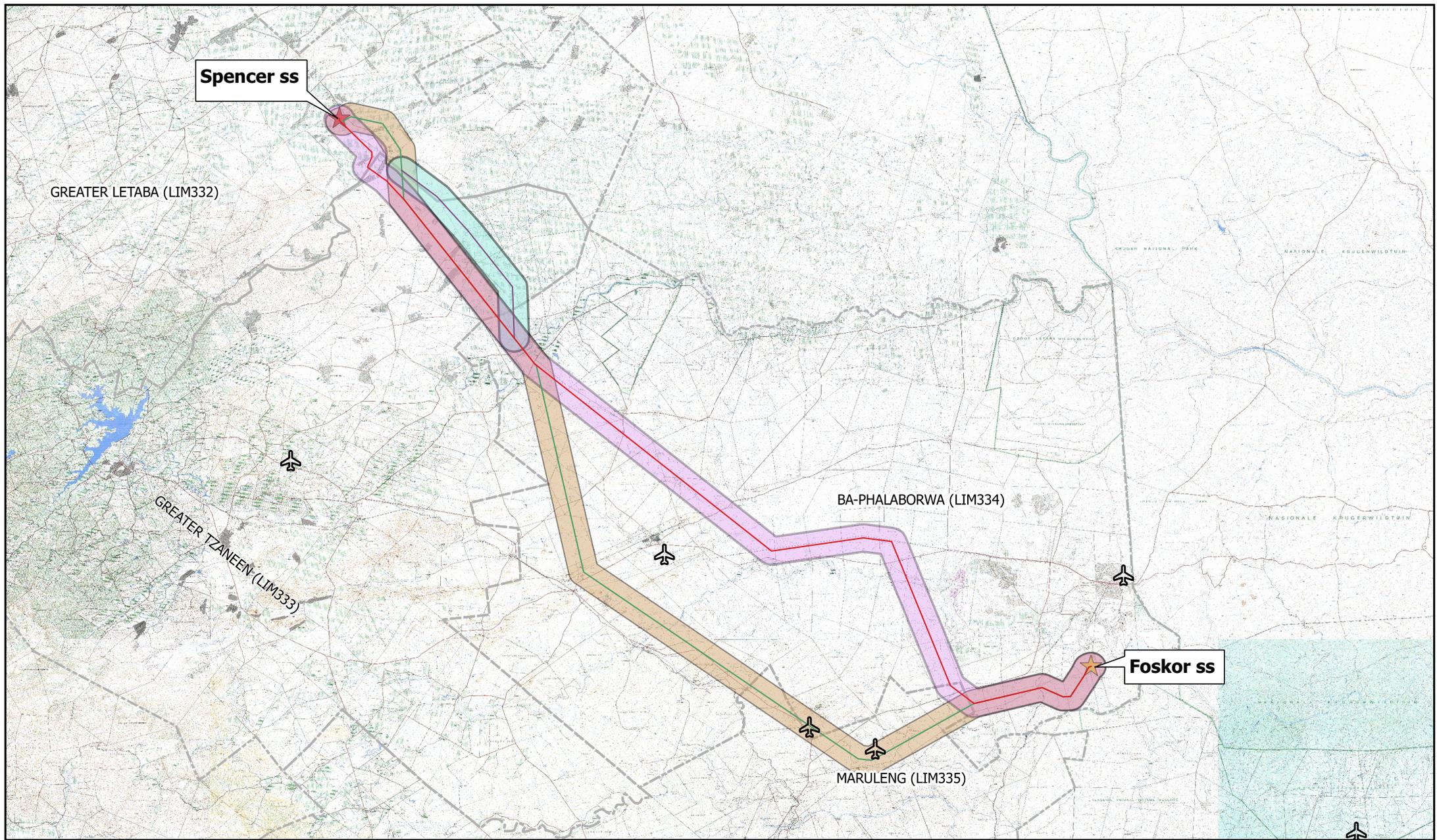
Fax: (013) 656 2233

Email: delno@telkomsa.net

Contact Person

Moses Mahlangu

You are invited to participate freely and to submit your comments or any information you feel may be useful to the EIA process. This assessment is being conducted on behalf of Eskom.



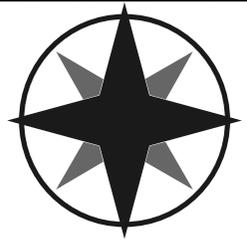
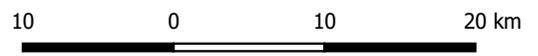
PROPOSED CONSTRUCTION OF 110KM, 400KV POWER LINE FROM FOSKOR SUBSTATION TO SPENCER SUBSTATION AND THE UPGRADE OF SPENCER SUBSTATION, LIMPOPO PROVINCE

Legend

- Airports
- Foskor ss
- Spencer ss
- Fos Spencer Route 1
- Fos Spenc Route 2
- Fos Spenc Route 3
- 3km Fos Spenc Buffer_1
- 3km Fos Spenc Buffer_2
- 3km Fos Spenc Buffer_3
- Local Municipality**
- BA-PHALABORWA (LIM334)
- GREATER LETABA (LIM332)
- GREATER TZANEEN (LIM333)
- MARULENG (LIM335)

Compiled by: B. Makanza
GCS: WGS84
Date: 25 November 2016

LOCALITY MAP



1:400 000

Environmental Impact Assessment
for the
Proposed Eskom Transmission Project in Mopani District Municipality

- Construction of new ± 120 km, 400kV Transmission Power Line
- Upgrading of the existing Spencer Main Transmission Substation (MTS)

Invitation to register as an Interested & Affected Party

YOU ARE INVITED TO COMPLETE THE REGISTRATION FORM AND RETURN IT TO THE PUBLIC PARTICIPATION OFFICE DETAILED BELOW:

Margen Industrial Services, P O Box 12822, Leraatsfontein, 1038.
Phone: (013) 656 1212 Fax: (013) 656 2233

E-mail: delno@telkomsa.net

Attention: Moses Mahlangu

PERSONAL DETAILS:

TITLE (Prof, Dr, Mr, Mrs, Ms)		FIRST NAME	
INITIALS		SURNAME	
ORGANISATION			
CAPACITY			
ADDRESS			
POSTAL CODE		TEL NO	
CELL NO		FAX NO	
E-MAIL ADDRESS			

Details of the project can be found in the attached **Background Information Document**

What is the farming activity taking place on your property?

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What potential impacts do you foresee with regards the construction of the proposed power line through/over your property?

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Please confirm your farm name/s and portion numbers here.

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ARE THERE ANY INTERESTED AND AFFECTED PARTIES (e.g. *your neighbours*) YOU FEEL SHOULD BE CONSULTED IN THE COURSE OF THIS STUDY? IF YES PLEASE SUPPLY:

Name:.....Farm Name or Organisation:.....

Telephone/address/e-mail:

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Thank you for your participation