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**Annex B - Distribution Environmental Screening Document (DESD)**  
(Informative)

**Reticulation Powerlines and Ancillary Services**

Ratified and accepted by  
Environmental Practitioner  
Environmental Specialist  
Head of Engineering Survey

(one signature please)

Accepted by Land Owner/s/Users

I have seen the completed document and accept the  
recommendations made

.....  
*F.D. Lotz*  
.....  
*F.D. Lotz*  
.....

**Assessor/s**

Form completed by *A. Pretorius*

Signature: .....

in consultation with: *F.D. Lotz*

Signature: *F.D. Lotz*

CAPACITY (e.g. land owner, specialist): *Owner*

DATE COMPLETED: .....

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**Instructions**

1. Fill the report in as neatly and completely as possible.
2. Where the question / statement is not applicable mark N/A.
3. Indicate sensitive areas on a map and/or spanning plans.
4. When in doubt, consult the Environmental Practitioner in your region.

The purpose of this *DESD* is to:

- Determine whether or not the project should be subject to R543-7, published in terms of the National Environmental management Act 107 of 1998.
- Identify and mitigate the negative impact of Eskom's activities to a minimum in line with both Legislation and Eskom's Environmental Policies.
- This report is a guide to Route Selection, Construction and Field Services.

**NOTE Complete the report before the survey!!!**

**This is not an office exercise.**

**Extra sheets of paper may be added and referenced if insufficient space has been provided.**

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**Annex B**  
(continued)

**1 Project description**

Project name/Survey  
Request ESKOM WITBANK Area AMEESFOOET  
Project number ..... File number .....  
Rural scheme/  
Feeder BERGVLIET NBZ Voltage 22 KV  
Supply from AT43L  
(scheme name, pole numbers for tee-off)  
Supply to RIETSPRUIT Primary  
(Farm name, etc.)

**2 Properties traversed**

Farm name RIETSPRUIT / STEEKSPRUIT  
Registration number and Division 507 / 508 Sub-division 4, 9, 11, 20  
Compilation number ..... Line length (m) 2003m  
Farm name .....  
Registration number and Division ..... Sub-division .....  
Compilation number ..... Line length/Site area (m<sup>2</sup>) .....

**3 Brief description of the surrounding area**

School can be seen. New railway  
Work can be seen in the far.  
Workshop not too far + off pole.  
Mustley grasslands.

Could the proposed project have an impact on or be constrained by any of the following environmental aspects?

Encircle the appropriate aspect, giving a description of the present state as well as an indication of the possible negative impact. Note that mitigating measures for these impacts are to be included in the Environmental Management Programme.

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**Annex B**  
(continued)

**4 Physical environment**

4.1 Water: streams rivers dams wetlands springs floodplains OTHER .....

Present condition: *Crossing small stream.*

Potential impact (e.g. threat of pollution): *N/A*

4.2 Soil: sandy rocky clayey OTHER .....

Present condition: *Normal soil. (Brown - light Brown)*

Potential impact (e.g. of erosion) *N/A.*

4.3 Topography mountains ridges hills valleys ravines dongas OTHER .....

Present condition: *Mostly flat. Slightly uphill and downhill.  
from school side.*

Potential impact (e.g. of erosion) *N/A.*

Comments/mitigating measures:

*Crossing over stream.*

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*Y-DG.*

**Annex B**  
(continued)

**5 Natural environment**

5.1 Flora: indigenous protected exotic OTHER .....

Brief description and conservation status (e.g. rare, etc., mention trees/bush/grass) ... grass  
gum trees .....

Potential impact (e.g. permit applications) Need to be cut. .....

5.2 Fauna: mammals birds OTHER .....

Brief description and conservation status:  
(e.g. rare, protected, etc., mention giraffe, elephants, eagles, vultures, etc., mention migratory paths)  
Cattle .....

Potential impact (e.g. threat of electrocution, collision, etc.)  
N/A .....

Comments/mitigating measures:

Trees need to be cut.  
.....  
.....

**6 Social environment**

6.1 Restricted areas: nature/game reserves hiking trails tourism routes parks recreational areas

Residential-areas green belts sacred/holy grounds OTHER .....

Brief description N/A .....

*P. Y.D.L.*

**Annex B**  
(continued)

Potential impact e.g. threat of encroachment, etc. *N/A*

6.2 Visual aesthetics: easily seen hidden partially... *X*

Brief description *Behind trees.*

Potential impact *N/A*

6.3 Natural heritage: cultural significance archaeological objects monuments palaeontological objects graves meteorites ruins OTHER.....

Note: Should any natural heritage resource as listed above, or as defined in the National Heritage Resource Act, No 25 of 1999 be identified, the requirements of Act 25 of 1999 shall be followed by notifying the SAHRA. If line or access road length exceeds 300m SAHRA shall be notified.

Potential impact *N/A*

Comments/mitigating measures *N/A*

**7 Economic environment**

7.1 Land use: *(crops)* orchards *(grazing)* crop spraying game farming forestry areas mining OTHER .....

Brief description *Maize, cattle grazing.*

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*[Handwritten signature]*  
*Y.O.R.*

**Annex B**  
(continued)

Potential impact *N/A* .....

7.1.1 Commercial: factories shops OTHER .....

Brief description *NA* .....

Potential impact *N/A* .....

7.1.2 Infrastructure: roads railways communications power lines air fields  
pipelines sewage OTHER .....

Brief description: *NA* .....

Potential impact *N/A* .....

**Comments/mitigating measures:**

*N/A* .....

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*[Handwritten initials]* *F-Oh.*

**Annex B**  
 (continued)

What impact will this project have on elements 4 to 7?

1. Physical

<input checked="" type="radio"/> No impact (0)	<input type="radio"/> Medium impact (2)	<input type="radio"/> High impact (4)
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2. Natural

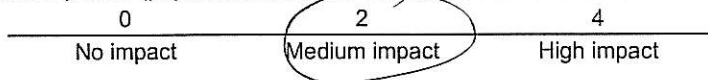
<input type="radio"/> No impact (0)	<input checked="" type="radio"/> Medium impact (2)	<input type="radio"/> High impact (4)
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3. Social

<input checked="" type="radio"/> No impact (0)	<input type="radio"/> Medium impact (2)	<input type="radio"/> High impact (4)
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**Overall impact:**

This section addresses the overall environmental impact of the project. The impacts as assessed in the above three spheres (physical, natural and social) need to be considered to determine the overall impact



If the overall impact is between 2 and 4, contact the Environmental Management Officer or the Environmental Senior Superintendent.

**Alternatives**

Have alternative routes been discussed with the relevant land owner/s or users?

Yes  \_\_\_\_\_  
 No  \_\_\_\_\_

**Detailed study**

Is an *environmental assessment* required in terms of Regulation R543?

Yes  \_\_\_\_\_  
 No  \_\_\_\_\_

Should a permit application be made to DWA?

Yes  \_\_\_\_\_  
 No  \_\_\_\_\_

Should the SAHRA be notified?

Yes  \_\_\_\_\_  
 No  \_\_\_\_\_

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*Y.Dh.*

**Annex C - Environmental Management Plan**  
(Normative)

**1 General conditions**

- 1.1 The Eskom project manager or co-ordinator shall be responsible for ensuring that the land owners have been informed before any work is carried out on site. Contractors shall find out if the landowners have been informed before moving onto site.
- 1.2 No fences, gates or locks shall be damaged to obtain access onto a line route. Arrangements shall be made in advance to obtain permission for access.
- 1.3 Use of private roads shall be arranged in advance. Any damage to private roads shall be repaired at the contractor's expense and to the satisfaction of the landowner. This shall be the responsibility of the project manager or co-ordinator.
- 1.4 Gates shall be left as they are found, i.e. closed gates shall be kept closed and open gates shall be left open. Gates to adjacent properties or onto public roads shall be closed at all times. Any Eskom gates installed on the line route shall be kept closed and locked except while stringing is taking place. Open gates shall be guarded to prevent animals straying and unauthorised persons and vehicles entering into adjacent camps or properties.
- 1.5 Permission shall be obtained from landowners before any water is used.
- 1.6 No fires shall be lit on private property. If fires are lit on Eskom's property or in the construction camp, provision shall be made that no accidental fires are started. No firewood shall be collected in the veld.
- 1.7 If activities that can cause a fire are carried out, fire extinguishers shall be available on site and in the construction camp.
- 1.8 No property may be accessed after normal working hours except with the permission of the landowner. Privacy shall be respected at all times.
- 1.9 Eskom, Eskom's contractors and their employees shall at all times be courteous towards landowners, tenants and the local community.
- 1.10 Eskom, Eskom's contractors and their employees shall not cause damage to property, crops or animals. Activities that may cause conflict with landowners, tenants, the local work force or the local community shall be avoided. Should conflict arise it shall be immediately reported to the Eskom project manager or co-ordinator.
- 1.11 Vehicles shall be driven at a moderate speed on private roads and stay within the statutory speed limit on public roads.
- 1.12 All movement of vehicles shall take place on the established Eskom servitude road or on private roads as agreed in advance. Keep to existing tracks. No movement shall take place through the veld. Special care shall be taken to prevent excess damage during wet weather.

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**Annex C**

(continued)

- 1.13 If any vehicle should get stuck, the damage shall be repaired immediately so that no deep ruts remain.
- 1.14 Any damage to private property shall immediately be reported to Eskom and the owner. The damage shall be rectified immediately if possible and/or appropriate compensation shall be paid to the owner at the discretion of the project manager/co-ordinator in consultation with the property owner. A record of damages and rectifying action shall be kept. The landowner's satisfaction with the outcome of rectifying action shall be obtained in writing.
- 1.15 A proper system of waste management shall be instituted in the construction camp. This entails that sufficient waste bins are available on site and in the construction camp. The waste shall be dumped at an approved waste disposal site. No containers, scrap metal, conductor etc. shall be left on site.
- All scrap shall be removed and taken to an appropriate disposal site. No oil, diesel or other chemicals shall be spilled or discarded anywhere. If an accidental spill occurs, it shall be reported immediately and cleaned to the satisfaction of Eskom and the landowner. No waste shall be left in the veld or on the line route.
- 1.16 Washing and toilet facilities shall be provided on site and in the construction camp. The facilities shall comply with Eskom standards and shall have the approval of the landowner.
- 1.17 No human excrement shall be left in the veld. If no toilet facilities are available such waste shall be buried *immediately*.
- 1.18 Herbicides shall only be applied with Eskom's permission and in accordance with the Eskom Policy on Herbicides ESKPBAAD4.
- 1.19 Camp and office sites shall be dismantled and removed after completion of the construction phase of the project. The site shall be rehabilitated to as close as possible to its original condition to the satisfaction of the landowner, which shall be in writing.
- 1.20 All excavations shall be enclosed to prevent animals or people from accidentally falling into excavations.
- 1.21 No trees shall be cut or removed without prior permission from the landowner. Permits shall be obtained for the cutting and removal protected trees (protected trees shall be dealt with in 2, **Special conditions**).
- 1.22 Should any natural heritage object be found, or exposed during excavations, all work shall be terminated immediately and the finding reported to the Project Manager who shall inform the Eskom Environmental Practitioner and the SAHRA.

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**Annex C**

(continued)

**2 Special conditions**

(Specific issues identified during the scoping as needing attention i.e. erosion berms, bird flappers, protected trees. etc.).

.....  
*(grum trees need to be cut -*  
*crossing over small stream.*  
 .....

**TYPICAL MITIGATION MEASURES**

ENVIRONMENTAL CONCERNS	MITIGATION MEASURES
<b>AGRICULTURE</b>	
Loss of standing crop due to access road and tower work site.	<ul style="list-style-type: none"> <li>- limit width of access and size of tower site.</li> <li>- avoidance of crop areas.</li> <li>- monetary compensation for crop loss.</li> <li>- time construction to avoid growing season.</li> </ul>
Soil Compaction	<ul style="list-style-type: none"> <li>- scheduling activities to times of the year when soils are least susceptible to compaction.</li> <li>- stop activities when ground conditions are poor.</li> <li>- use of equipment with low bearing capacity.</li> <li>- chisel ploughing.</li> </ul>
Construction of new lines	<ul style="list-style-type: none"> <li>- locate access roads along existing traffic routs.</li> </ul>
Topsoil – subsoil mixing/soil rutting	<ul style="list-style-type: none"> <li>- scheduling activities.</li> <li>- stop activity when ground conditions are poor.</li> <li>- use of equipment with low bearing capacity.</li> <li>- use of gravel roads.</li> <li>- addition of manures to offset fertility loss.</li> <li>- compensation for reduced soil pEAactivity.</li> <li>- removal of spoil and/or bentonite from foundation operations.</li> <li>- Segregation of topsoil and subsoil.</li> </ul>
Disturbance to farm operations	<ul style="list-style-type: none"> <li>- maintain contact with landowner/tenant regarding preferences.</li> </ul>
Loss of livestock	<ul style="list-style-type: none"> <li>- employ noise control measures near sensitive livestock.</li> <li>- Construction of farm gates.</li> <li>- Securing farm gates.</li> <li>- Clean-up construction materials which could be ingested.</li> <li>- Compensation for lost, injured livestock.</li> </ul>
<b>SOCIAL IMPACTS</b>	
Mud and Dust	<ul style="list-style-type: none"> <li>- wetting down dry soils.</li> <li>- chemical control of dust.</li> <li>- cleaning roads to remove mud.</li> <li>- temporary planting of grasses.</li> </ul>

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