



**Annex B**  
(continued)

**1 Project description**

Project name/Survey

Request **Pepliza Events**..... Area .....

Project number **THT430815154**..... File number .....

Rural scheme/

Feeder **Boltman**..... Voltage **22kv**.....

Supply from **MBM87/1**.....

(scheme name, pole numbers for tee-off)

Supply to **MBM87/16**.....

(Farm name, etc.)

**2 Properties traversed**

Farm name **KRAUSE**.....

Registration number and Division **226LT**..... Sub-division .....

Compilation number **2330 AA**..... Line length (m) **607.65m**.....

Farm name .....

Registration number and Division .....

Compilation number .....

Line length/Site area (m<sup>2</sup>) .....

**3 Brief description of the surrounding area**

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**Flat red soil residential area and dry**.....

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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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**4 Physical environment**

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

Present condition: *NA*

Potential impact (e.g. threat of pollution):

*NA*

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

Present condition: *Soft sandy soil*

Potential impact (e.g. of erosion) *NO impact*

4.3 Topography mountains ridges hills valleys ravines dongas OTHER *Flat*

Present condition: *Very High Area.*

Potential impact (e.g. of erosion) *NO impact*

Comments/mitigating measures:

*NO impact*

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**5 Natural environment**

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

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

*Malacra trees*

Potential impact (e.g. permit applications) .....

*no permit required*

**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)

*domestic animals*

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

*no impact*

Comments/mitigating measures:

*no permit required*

**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 *Rural residential area*

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Potential impact e.g. threat of encroachment, etc. ....  
*NO impact*

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

Brief description: *MV lines will be on the middle street and UV lines on the middle street*

Potential impact *NO impact*

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

**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 *NA*

Comments/mitigating measures *NA*

**7 Economic environment**

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

Brief description *land is used for grazing*

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Potential impact ..... *no impact* .....

7.1.1 Commercial: factories shops OTHER *spaces*

Brief description *There are spaces around the area*  
Potential impact .....  
..... *no impact* .....

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

Brief description *major roads, Telkom com. estab*  
*republic*  
.....  
.....  
Potential impact ..... *no impact* .....

Comments/mitigating measures:  
.....  
.....  
..... *no impact* .....

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

1. Physical

<u>No impact (0)</u>	Medium impact (2)	High impact (4)
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2. Natural

<u>No impact (0)</u>	Medium impact (2)	High impact (4)
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3. Social

<u>No impact (0)</u>	Medium impact (2)	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

<u>0</u>	2	4
No impact	Medium impact	High 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 ✓

## **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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- 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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**2 Special conditions**

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

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**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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Aesthetics	<ul style="list-style-type: none"> <li>- screen with natural or planted vegetation restoration.</li> <li>- avoid linear access down the right-of-way.</li> <li>- addition of topsoil to gravel access roads.</li> <li>- hoarding construction sites.</li> <li>- installation of landscaping in advance of site completion.</li> </ul>
Inconvenience	<ul style="list-style-type: none"> <li>- select route and method of installation to suit landowners' conditions.</li> <li>- select timing of activity.</li> </ul>
Heritage resources	<ul style="list-style-type: none"> <li>- avoidance/isolation.</li> <li>- design measures to make facility less obtrusive.</li> <li>- screening.</li> <li>- alternate methods of equipment.</li> <li>- protection by use of enclosures, barrier fencing, covering.</li> <li>- salvage in conjunction with SAHRA.</li> <li>- relocation in conjunction with SAHRA.</li> </ul>
Tourism and recreation resources	<ul style="list-style-type: none"> <li>- design measures to make facility less obtrusive of disruptive.</li> <li>- screening and restoration.</li> <li>- minimise noise and dust.</li> <li>- safety precautions to protect the public.</li> <li>- scheduling to avoid peak use periods.</li> </ul>
<b>WATER QUALITY</b>	
Sedimentation of streams due to erosion from the right-of way.	<ul style="list-style-type: none"> <li>- minimise use of slopes adjacent to streams during soils testing, construction and maintenance.</li> <li>- maintain a cover crop.</li> <li>- retain buffers.</li> </ul>
Stream bank erosion.	<ul style="list-style-type: none"> <li>- mechanical erosion control.</li> <li>- retain shrubby stream bank vegetation and selectively cut or prune trees during line clearing/maintenance.</li> <li>- selective spraying of herbicides.</li> <li>- Mechanical erosion control.</li> </ul>
Impedance of natural flow streams/others surface waters.	<ul style="list-style-type: none"> <li>- use and maintenance of appropriate stream crossing device.</li> </ul>
Ponding or channelization of surface waters due to rutting.	<ul style="list-style-type: none"> <li>- timing activities to stable ground conditions.</li> <li>- use of gravel roads.</li> </ul>
Contamination of surface or ground waters through spills or leaks of toxic substances.	<ul style="list-style-type: none"> <li>- spill control material and procedures readily available.</li> <li>- site selection where possible.</li> </ul>
Soil compaction/topsoil-subsoil mixing.	<ul style="list-style-type: none"> <li>- avoidance of rutting by vehicles where possible.</li> <li>- construction timing.</li> <li>- use of gravel roads.</li> <li>- use of vehicles with low bearing pressures.</li> <li>- stop activities when ground conditions are poor.</li> </ul>
Wind/water erosion.	<ul style="list-style-type: none"> <li>- avoidance of areas with high erosion potential.</li> <li>- timing activities to the most stable ground conditions.</li> <li>- slope stabilisation.</li> <li>- mechanical erosion control.</li> <li>- vegetation erosion control.</li> <li>- recompaction of trenches.</li> <li>- avoid trenching parallel to the fall of a slope.</li> </ul>