

PROJECT DESCRIPTION

PROJECT NAME / SURVEY REQUEST Bulkeps - Jenkins Self build

AREA Postmansburg.

PROJECT NUMBER _____ NUMBER _____

RURAL SCHEME / FEEDER Bulkeps - Jenkins VOLTAGE 11 kV

SUPPLY FROM (scheme name, pole numbers for tee-off)

Bulkeps Substation.

SUPPLY TO (farm name, etc.)

Jenkins 562

PROPERTIES TRAVERSED

FARM NAME Macarthy 559

REGISTRATION # & DIVISION Karuman SUB-DIVISION 5

COMPILATION # 2823

LINE LENGTH (m) / SITE AREA (m²) 600m

FARM NAME Macarthy 559

REGISTRATION # & DIVISION Karuman SUB-DIVISION 2

COMPILATION # 2823

LINE LENGTH (m) / SITE AREA (m²) 900m

BRIEF DESCRIPTION OF THE SURROUNDING AREA

Flat terrain, savanna grassland, scattered Camel thorn trees
vaalbos and awarhak bushes. Farming and mining activities.
Provincial Road No 386 traverse through the property as well as Telkomo
services and Sedibeng water pipeline parallel either side of
the road reserve.

**DISTRIBUTION GROUP:
PROCEDURE FOR ENVIRONMENTAL
ASSESSMENT OF MINOR AND MAJOR
SUPPLY APPLICATIONS**

REV DRAFT 1

DATE: 25 May 1999

**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.

1. PHYSICAL ENVIRONMENT

| | | | | |
|---|-----------------------------------|-------------|------|------------------------|
| WATER : | streams | rivers | dams | wetlands |
| | springs | floodplains | | OTHER <u>Wood mill</u> |
| PRESENT CONDITION: | <u>area is flat and very dry.</u> | | | |
| POTENTIAL IMPACT (e.g. threat of pollution) | <u>none</u> | | | |

| | | | | |
|------------------------------------|---|--------------|--------|-------------|
| SOIL : | <u>sandy</u> | <u>rocky</u> | clayey | OTHER _____ |
| PRESENT CONDITION | <u>covered with sawn grassland and Swarthak bushes.</u> | | | |
| POTENTIAL IMPACT (e.g. of erosion) | <u>none</u> | | | |

| | | | | |
|--|---|--------|--------------|-------------|
| TOPOGRAPHY : | mountains | ridges | <u>hills</u> | valleys |
| | ravines | dongas | slope | OTHER _____ |
| PRESENT CONDITION | <u>hills covered with grass and swarthak bushes</u> | | | |
| POTENTIAL IMPACT (e.g. threat of erosion etc.) | <u>none</u> | | | |

COMMENTS / MITIGATING MEASURES :

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2. NATURAL ENVIRONMENT

| |
|--|
| FLORA : <input checked="" type="checkbox"/> indigenous <input checked="" type="checkbox"/> protected <input type="checkbox"/> exotic <input type="checkbox"/> OTHER _____ |
| BRIEF DESCRIPTION & CONSERVATION STATUS (e.g. rare) <i>savanna grassland with scattered Camel Thorn trees and wattak bushes</i> |
| POTENTIAL IMPACT (e.g. permit applications) <i>Permit to be obtained for cutting of Camel thorn trees.</i> |

| |
|---|
| FAUNA : <input type="checkbox"/> mammals <input type="checkbox"/> birds <input type="checkbox"/> OTHER _____ |
| BRIEF DESCRIPTION & CONSERVATION STATUS : (e.g. rare, protected, etc., mention giraffe, elephants, eagles, vultures, etc., mention migratory paths) <i>none seen.</i> |
| POTENTIAL IMPACT (e.g. threat of electrocution, collision, etc) <i>none.</i> |

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3. SOCIAL ENVIRONMENT

| | | | |
|---|------------------------|--------------------|-------------------|
| RESTRICTED AREAS : | nature / game reserves | hiking trails | |
| tourism routes | parks | recreational areas | residential-areas |
| green belts | sacred/holy grounds | OTHER _____ | |
| BRIEF DESCRIPTION | | | |
| <i>none</i> | | | |
| POTENTIAL IMPACT e.g. threat of encroachment, etc.) | | | |
| <i>none</i> | | | |

| | | | |
|---|--------------------|--------|-----------------|
| VISUAL AESTHETICS : | <u>easily seen</u> | hidden | partially _____ |
| BRIEF DESCRIPTION | | | |
| <i>Lower line is planned parallel with Provincial road.</i> | | | |
| POTENTIAL IMPACT | | | |
| <i>none</i> | | | |

| | | | |
|--------------------------|------------------------|----------------|-----------|
| SENSITIVE AREAS : | historical sites | archaeological | monuments |
| ruins | natural heritage sites | graves | landmarks |
| | OTHER _____ | | |
| PRESENT CONDITION | | | |
| <i>none</i> | | | |
| POTENTIAL IMPACT | | | |
| <i>none</i> | | | |

COMMENTS / MITIGATING FACTORS

**COULD THE PROPOSED PROJECT HAVE AN IMPACT ON OR BE CONSTRAINED BY
ANY OF THE FOLLOWING ENVIRONMENTAL ASPECTS ?**

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4. ECONOMIC ENVIRONMENT

| | | | | |
|--------------------------|---|----------------------------|---------------------------------|------------------------------|
| LAND USE : | crops game farming | orchards forestry areas | <u>grazing</u> <u>mining</u> | crop spraying OTHER _____ |
| BRIEF DESCRIPTION | <i>savanna grasslands, mining activities in hills</i> | | | |
| POTENTIAL IMPACT | <i>none</i> | | | |

| | | | |
|--------------------------|-------------|-------|-------------|
| COMMERCIAL : | factories | shops | OTHER _____ |
| BRIEF DESCRIPTION | <i>none</i> | | |
| POTENTIAL IMPACT | <i>none</i> | | |

| | | | | | |
|--------------------------|---|------------|----------|------------------|---------------------------------|
| INFRASTRUCTURE : | <u>roads</u> power lines | air-fields | railways | <u>pipelines</u> | <u>communications</u> sewage |
| OTHER | <i>haulroad</i> | | | | |
| BRIEF DESCRIPTION | <i>new power line is planned parallel to water pipeline, crosses the pipeline, road and Telkom line and goes parallel to the Telkom line.</i> | | | | |
| POTENTIAL IMPACT | <i>No impact if prescribed clearances are maintained</i> | | | | |

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IMPACT

WHAT IMPACT WILL THIS PROJECT HAVE ON ELEMENTS 1 TO 4 ?

1. PHYSICAL

LOW IMPACT ~~(0)~~ MEDIUM IMPACT (2) HIGH IMPACT (4)

2. NATURAL

LOW IMPACT ~~(0)~~ MEDIUM IMPACT (2) HIGH IMPACT (4)

3. SOCIAL

LOW IMPACT ~~(0)~~ MEDIUM IMPACT (2) HIGH IMPACT (4)

4. ECONOMIC

LOW IMPACT ~~(0)~~ MEDIUM IMPACT (2) HIGH IMPACT (4)

OVERALL IMPACT:

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

| | | |
|--------------|---------------|-------------|
| 0 | 2 | 4 |
| Low impact | Medium impact | High impact |

If the overall impact is between 2 & 4, contact the environmental practitioner or specialist.

ALTERNATIVES

HAVE ALTERNATIVE ROUTES BEEN DISCUSSED WITH THE RELEVANT LAND OWNER/S OR USERS ?

YES
NO

DETAILED STUDY

IS AN ENVIRONMENTAL SCOPING REQUIRED IN TERMS OF REGULATION 1183 ?

YES
~~NO~~

ENVIRONMENTAL MANAGEMENT PLAN

1. GENERAL CONDITIONS

- 1.1 The Eskom project manager or co-ordinator is responsible to ensure that the land owners have been informed before any work is carried out on site. Contractors must find out if the land owners have been informed before moving onto site.
- 1.2 No fences, gates or locks may be damaged to obtain access onto a line route. Arrangements must be made in advance to obtain permission for access.
- 1.3 Use of private roads must be arranged in advance. Any damage to private roads must be repaired at the contractor's expense and to the satisfaction of the land owner. This is the responsibility of the project manager or co-ordinator.
- 1.4 Gates must be left as they are found, i.e. closed gates must be kept closed and open gates must be left open. Gates to adjacent properties or onto public roads must be closed at all times. Any Eskom gates installed on the line route must be kept closed and locked except while stringing is taking place. Open gates must be guarded to prevent animals straying and unauthorised persons and vehicles entering into adjacent camps or properties.
- 1.5 Permission must be obtained from land owners before any water is used.
- 1.6 No fires may be lit on private property. If fires are lit on Eskom's property or in the construction camp, provision must be made that no accidental fires are started. No fire wood may be collected in the veld.
- 1.7 If activities that can cause a fire are carried out, fire extinguishers must 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 land owner. Privacy must be respected at all times.
- 1.9 Eskom, Eskom's contractors and their employees must at all times be courteous towards land owners, tenants and the local community.

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- 1.10 Eskom, Eskom's contractors and their employees may not cause damage to property, crops or animals. Activities that may cause conflict with land owners, tenants, the local work force or the local community must be avoided. Should conflict arise it should be immediately reported to the Eskom project manager or co-ordinator.
- 1.11 Vehicles must 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 must take place on the established Eskom servitude road or on private roads as agreed in advance. Keep to existing tracks. No movement may take place through the veld. Special care must be taken to prevent excess damage during wet weather.
- 1.13 If any vehicle should get stuck, the damage must be repaired immediately so that no deep ruts remain.
- 1.14 Any damage to private property must immediately be reported to Eskom and the owner. The damage must be rectified immediately if possible and/or appropriate compensation must 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 must be kept. The land owner's satisfaction with the outcome of rectifying action must be obtained in writing.
- 1.15 A proper system of waste management must be instituted in the construction camp. This entails that sufficient waste bins are available on site and in the construction camp. The waste should be dumped at an approved waste disposal site. No containers, scrap metal, conductor etc. may be left on site.
Such scrap must be removed and taken to an appropriate disposal site. No oil, diesel or other chemicals may be spilled or discarded anywhere. If an accidental spill occurs, it must be reported immediately and cleaned to the satisfaction of Eskom and the land owner. No waste may be left in the veld or on the line route.
- 1.16 Washing and toilet facilities must be provided on site and in the construction camp. The facilities must comply with Eskom standards and have the approval of the land owner.
- 1.17 No human excrement may be left in the veld. If no toilet facilities are available such waste must immediately be buried.

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- 1.18 Herbicides may only be applied with Eskom's permission and according to the Eskom Policy on Herbicides (ref. Herbicide Management Policy :ESKPBAAB4)

- 1.19 Camp, office sites must be dismantled and removed after completion of the construction phase of the project. The site must be rehabilitated to as close as possible to its original condition to the satisfaction of the land owner which should be in writing.

- 1.20 All excavations must be enclosed to prevent animals or people from accidentally falling into excavations.

- 1.21 No trees may be cut or removed without prior permission from the landowner. Permits should be obtained for protected trees (protected trees should be dealt with in **special conditions**)

3. SPECIAL CONDITIONS

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

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