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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 | 10.010.000.000.000.000.000.000.000.000. |
| I have seen the completed document | and accept the |
| recommendations made | *************************************** |
| | Assessor/s |
| Form completed by | Signature: |
| in consultation with : | Signature: |
| CAPACITY (e.g. land owner, specialis | st): |
| DATE COMPLETED: | sijni nomini |

Instructions

- 1. Fill the report in as neatly and completely as possible.
- 2. Where the question / statement is not applicable mark N/A.
- 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

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| Project name/Su | irvey | |
|-----------------|--------------------------------------|-------------|
| Request | 22kVa powerline Kareevlei, Farm 142 | Area |
| Project number | | File number |
| Rural scheme/ | | |
| Feeder | Eskom conductor line | Voltage |
| Supply from | Eskom conductor line | |
| (scheme name, | pole numbers for tee-off) | |
| Supply to | Farm 2/142, Kareevlei, Northern Cape | |
| (Farm name, etc |) | |
| | | |

2 Properties traversed

| Farm name | Farm 2/142, Kareevlei, Northern Cape | |
|--------------|--------------------------------------|--------------|
| Registration | number and Division | |
| Compilation | number Line length (m) | 900m |
| | Farm 2/142, Kareevlei, Northern Cape | |
| Registration | number and Division | Sub-division |
| | number Line length/Site | |

3 Brief description of the surrounding area

The area proposed for the distribution line of approximately 900m is located within the Ghaap Plateau Vaalbosvel vegetation type. The area topography can be defined as a flat plateau with a well-developed shrub layer.

There is a presence of surface limestone of Tertiary to Recent age, and dolomite and chert of the Campbell Group support soils of Mispah and Hutton soil forms.

There are no residential areas located within the proposed project area. The line alignment sees no trees, however there is a presence of endemic taxa on the proposed site itself.

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 sprin | gs floodplains | OTHER None |
| Present condition: No streams or significant drainage line are present along the prop The site falls within a NFEPA river FEPAs subquaternary catchm | | not have a priority areas status. |
| Potential impact (e.g. threat of pollution): .No foreseen impacts. | | ***** |
| | | ***** |
| | | |
| | | |
| 4.2 Soil: sandy rocky of | layey OT | HER |
| | | |
| | | |
| Present condition: | on hard or weathering rock) | |
| Potential impact (e.g. of erosion)No foreseen impacts on soil conditions | | THER Plain |
| | | THER Plain |
| Potential impact (e.g. of erosion)No foreseen impacts on soil conditions | | THER Plain |
| Potential impact (e.g. of erosion)No foreseen impacts on soil conditions | ines dongas C |)THER Plain |
| Potential impact (e.g. of erosion)No foreseen impacts on soil conditions 4.3 Topography mountains ridges hills valleys rav Present condition: .The area is represented by plains, and there are existing clearance | ines dongas C | THER Plain |
| Potential impact (e.g. of erosion)No foreseen impacts on soil conditions 4.3 Topography mountains ridges hills valleys rav | ines dongas C | OTHER Plain |
| Potential impact (e.g. of erosion)No foreseen impacts on soil conditions 4.3 Topography mountains ridges hills valleys rav Present condition: The area is represented by plains, and there are existing clearance Potential impact (e.g. of erosion)The alignment is fairly flat and there are re- | ines dongas C | THER Plain |
| Potential impact (e.g. of erosion)No foreseen impacts on soil conditions 4.3 Topography mountains ridges hills valleys rav Present condition: The area is represented by plains, and there are existing clearand Potential impact (e.g. of erosion)The alignment is fairly flat and there are r Comments/mitigating measures: | ines dongas C e at the proposed site. no foreseen impacts. | |
| Potential impact (e.g. of erosion)No foreseen impacts on soil conditions 4.3 Topography mountains ridges hills valleys rav Present condition: The area is represented by plains, and there are existing clearance Potential impact (e.g. of erosion)The alignment is fairly flat and there are re- | ines dongas C e at the proposed site. no foreseen impacts. | |
| Potential impact (e.g. of erosion)No foreseen impacts on soil conditions 4.3 Topography mountains ridges hills valleys rav Present condition: The area is represented by plains, and there are existing clearand Potential impact (e.g. of erosion)The alignment is fairly flat and there are r Comments/mitigating measures: | ines dongas C e at the proposed site. no foreseen impacts. erosion. | |
| Potential impact (e.g. of erosion)No foreseen impacts on soil conditions 4.3 Topography mountains ridges hills valleys rav Present condition: The area is represented by plains, and there are existing clearance Potential impact (e.g. of erosion)The alignment is fairly flat and there are r Comments/mitigating measures: Selective bush clearance can be implemented where necessary to avoid the possibility of soil | ines dongas C e at the proposed site. to foreseen impacts. | |
| Potential impact (e.g. of erosion)No foreseen impacts on soil conditions 4.3 Topography mountains ridges hills valleys rav Present condition: The area is represented by plains, and there are existing clearand Potential impact (e.g. of erosion)The alignment is fairly flat and there are r Comments/mitigating measures: Selective bush clearance can be implemented where necessary to avoid the possibility of soil | ines dongas C e at the proposed site. no foreseen impacts. erosion. | |
| Potential impact (e.g. of erosion)No foreseen impacts on soil conditions 4.3 Topography mountains ridges hills valleys rav Present condition: The area is represented by plains, and there are existing clearand Potential impact (e.g. of erosion)The alignment is fairly flat and there are r Comments/mitigating measures: Selective bush clearance can be implemented where necessary to avoid the possibility of soil | ines dongas C e at the proposed site. no foreseen impacts. erosion. | |
| Potential impact (e.g. of erosion)No foreseen impacts on soil conditions 4.3 Topography mountains ridges hills valleys rav Present condition: The area is represented by plains, and there are existing clearand Potential impact (e.g. of erosion)The alignment is fairly flat and there are r Comments/mitigating measures: Selective bush clearance can be implemented where necessary to avoid the possibility of soil | ines dongas C e at the proposed site. no foreseen impacts. | |

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| Annex B (continued) | | | | | | |
|---|--|--|----------------------|---------------------------------------|---|--|
| 5 Natural env | ironment | | | | | |
| 5.1 Flora: | indigenous | protected | е | xotic | OTHE | ER |
| | 22kVa powerline Ka | areevlei, Farm 142 | | | | |
| Brief description a The NC biodiversity plan 'There are no protected t Potential impact (6 5.2 Fauna: | idenitifies the proposed rees on the proposed lin | line as an ecological supple: Cations There are n trees be ide | oort area. There are | e Griqualand Wes esent on the prop | t endemic and Ka osed line. Howev on through DAFF | alaharo endemic taxa. ver, should any protected |
| (e.g. rare, protecte Small mammals can be e Potential impact (e | Brief description and conservation status: (e.g. rare, protected, etc., mention giraffe, elephants, eagles, vultures, etc., mention migratory paths) Small mammals can be expected in the area, including terrestrial rodents and shrews. Larger mammals may be present. Potential impact (e.g. threat of electrocution, collision, etc). No significant impacts are forseen, as the proposed line is of small magnitude and construction will be of short duration. | | | | | |
| Comments/mitigal No specific mitigation m | | is however recommende | d that bush clearar | nce be kept to a m | inimum. | measures: |
| | 43336663366644434440666 | | | | 90000000000000000000000000000000000000 | |
| ****** | ***** | | ***** | ********** | | ***** |
| 0.0.11 | | | | | | |
| 6 Social envir | onment | | | | | |
| 6.1 Restricted areas: | nature/game reserves | hiking trails | tourism rou | tes p | arks | recreational areas |
| Residential- areas | green belts | sacred/holy grounds | OTHER | lone | | |
| Brief description . | No residential areas | are located within the vici | nity of the project. | | ******* | ***** |

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| Potential impact e.g. t | hreat of encroach | ment, etc | | ****** |
| 6.2 Visual aesthetics | s: easily seen | hidden | C | partially |
| Brief description . Atho | ugh protruding, the propos | ved line is a far distance away fr | om residential areas or ma | in roads. |
| Potential impactNo | significant visual impacts a | are foreseen. | | |
| 6.3 Natural heritage: | cultural significance | archaeological objects | monuments | palaeontological objects |
| | graves | meteorites | ruins | OTHER |
| Note: Should any n Resource Act, No 25 o the SAHRA. If line or Potential impact | access road leng | gth exceeds 300m S | of Act 25 of 1999 s AHRA shall be no | ed in the National Heritage shall be followed by notifying otified. |
| Should any of the above be iden | | the project must stop and the e | nvironmental officer must b | e notified. |
| 7 Economic envir | onment | | | |
| 7.1 Land use: cr | ops | orchards | grazing | crop spraying |
| ga | me farming | forestry areas | mining | OTHERNatural |
| Brief descriptionThe ar | ea does not present any s | pecific land use. | | |

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| | | nex B tinued) | | |
| | pacts are foreseen, the proposed line Kareevlei, Farm 142 | line is relatively short. | | |
| 7.1.1 Commercial: facto | ories | shops | OTHER | None |
| Brief description No commercial la Potential impact | nduses are applicable preseen | | | |
| 7.1.2 Infrastructure: roads | | communications | power lines | air fields |
| Brief description: | structure along the line route. The | re are only informal farm acces | s roads/tracks. | |
| | ********** | | ********* | |
| | | | | |
| Potential impact No impacts are | foreseen | | | |
| | | | ann <u>aannaannaa</u> | ****** |
| Commonte Instituctions manage | | | | |
| Comments/mitigating measu | 1162. | | | |
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Annex B

(continued)

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

1. Physical

| (| No impact (0) | | Medium impact (2) | High impact (4) |
|---------------|---------------|-------------------|-------------------|-----------------|
| | 2. | Natural | | |
| (| No impact (0) | | Medium impact (2) | High impact (4) |
| | 3. | Social | | |
| No 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 and social) need to be considered to determine the overall impact

| 0 | 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?



Detailed study

Is an environmental assessment required in terms of Regulation R543?



Should a permit application be made to DWA?



Yes

No

Should the SAHRA be notified?

Note that the environmental screening assessment will be submitted to SAHRIS

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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.
- 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-ordiator.
- 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)

- 113 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.
- Camp and office sites shall be dismantled and removed after completion of the construction 1.19 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).
- Should any natural heritage object be found, or exposed during excavations, all work shall be 1.22 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

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

| Should any protected tree species be affected, prior permit application must be submitted to DAFF for approval. |
|---|
| Bush clearance must be kept to a minimum to mitigate against any possible soil erosion. |
| |
| |

TYPICAL MITIGATION MEASURES

| ENVIRONMENTAL CONCERNS | MITIGATION MEASURES |
|--|--|
| AGRICULTURE | The first is sended as a sender and the sender of the send |
| Loss of standing crop due to access road and tower work site. | limit width of access and size of tower site. avoidance of crop areas. monetary compensation for crop loss. time construction to avoid growing season. |
| Soil Compaction | scheduling activities to times of the year when soils are least susceptible to compaction. stop activities when ground conditions are poor. use of equipment with low bearing capacity. chisel ploughing. |
| Construction of new lines | - locate access roads along existing traffic routs. |
| Topsoil – subsoil mixing/soil rutting | scheduling activities. stop activity when ground conditions are poor. use of equipment with low bearing capacity. use of gravel roads. addition of manures to offset fertility loss. compensation for reduced soil pEAuctivity. removal of spoil and/or bentonite from foundation operations. Segregation of topsoil and subsoil. |
| Disturbance to farm operations | maintain contact with landowner/tenant regarding preferences. |
| Loss of livestock | employ noise control measures near sensitive livestock. Construction of farm gates. Securing farm gates. Clean-up construction materials which could be ingested. Compensation for lost, injured livestock. |
| SOCIAL IMPACTS | |
| Mud and Dust | wetting down dry soils. chemical control of dust. cleaning roads to remove mud. temporary planting of grasses. |

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Annex C

| | (continued) |
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| Aesthetics | screen with natural of planted vegetation restoration. avoid linear access down the right-of-way. addition of topsoil to gravel access roads. hoarding construction sites. installation of landscaping in advance of site completion. |
| Inconvenience | select route and method of installation to suit landowners' conditions. select timing of activity. |
| Heritage resources | avoidance/isolation. design measures to make facility less obtrusive. screening. alternate methods of equipment. protection by use of enclosures, barrier fencing, covering. salvage in conjunction with SAHRA. relocation in conjunction with SAHRA. |
| Tourism and recreation resources | design measures to make facility less obtrusive of disruptive. screening and restoration. minimise noise and dust. safety precautions to protect the public, scheduling to avoid peak use periods. |
| WATER QUALITY | |
| Sedimentation of streams due to erosion from the right-of way. | minimise use of slopes adjacent to streams during soils testing, construction and maintenance. maintain a cover crop. retain buffers. |
| Stream bank erosion. | mechanical erosion control. retain shrubby stream bank vegetation and selectively cut or prune trees during line clearing/maintenance. selective spraying of herbicides. Mechanical erosion control. |
| Impedance of natural flow streams/others surface waters. | use and maintenance of appropriate stream crossing device. |
| Ponding or channelization of surface waters due to rutting. | timing activities to stable ground conditions. use of gravel roads. |
| Contamination of surface or ground waters through spills or leaks of toxic substances. | spill control material and procedures readily available. site selection where possible. |
| Soil compaction/topsoil-subsoil mixing. | avoidance of rutting by vehicles where possible. construction timing. use of gravel roads. use of vehicles with low bearing pressures. stop activities when ground conditions are poor. |
| Wind/water erosion. | avoidance of areas with high erosion potential. timing activities to the most stable ground conditions. slope stabilisation. mechanical erosion control. vegetation erosion control. recompaction of trenches. avoid trenching parallel to the fall of a slope. |

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Annex C (continued) Contamination by petrochemicals. spill control material and procedures made readily available. restoration methods investigated. FAUNA & FLORA Loss of habitat, breeding and/or food source environmental mapping to identify sensitive areas. for terrestrial wildlife. avoidance of areas containing rare/endangered species. construction and maintenance activities to be timed where possible to avoid peak breeding periods. the creation of "edge" (may be considered a positive impact.) promotion of wildlife habitat through vegetation control. avoid the filling of small wetlands. use design with low risk to wildlife electrocution or collision fit bird flight divertors to powerlines in bird migration areas. Changes in composition of vegetation as a construction timing to minimise soil disturbance. result of disturbance. restoration of soils to a stable condition. Removal or burial of stream bottom habitat minimise erosion from the right-of-way by and increased turbidity due to sedimentation. maintaining a cover crop. mechanical erosion control. minimise stream bank erosion by retaining shrubby bank vegetation and selective cutting, pruning of trees near watercourses. installation of sediment traps when necessary. Possible loss of wildlife/fish migration/travel avoid filling small wetlands servings as staging areas for waterfowl migration. routes. Installation and maintenance of a proper stream crossing device. time construction activities to avoid disturbance to migrating fish and wildlife or during breeding. Follow Eskom standards for the application of herbicides near watercourses. Preserve and/or augment existing natural corridor crossings; investigate tower placement to optimise clearances to preserve existing vegetation. IntEAuction of exotic plant species resulting use of native species for erosion control. from vegetative erosion control. Vegetation stress due to nutrient loss as a erosion control measures. result of soil deterioration. Changes in vegetation due time construction/clearing to take advantage of soil to disturbance (topsoil-subsoil mixing). stable soil conditions.

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