ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

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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) | , | 1.10 | |
| Accepted by Land Owner/s/Users | <u>X</u> | Ml | Initial) |
| I have seen the completed documer recommendations made | nt and accep | pt the | (Full signal |
| Form completed by M.J.Ra | wood: | Assessoria | en ski |
| . City completed by KATALASSA | | aignature1 | T |

in consultation with: KH. DYLEMI Signature:

CAPACITY (e.g. land owner, specialist): 1 LAND OWNER

DATE COMPLETED:

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 | ľ |
|---|---|
| Project description Note of the project name/Survey Estom Request Request Replacement Rural scheme/ Feeder Rural scheme/ Supply from NL-7/1/207/23 (scheme name, pole numbers for tee-off) Supply to Se Kuil 28 TR (Farm name, etc.) | |
| 2 Properties traversed Farm name Registration number and Division 28 38 3 Line length (m) 23 18, 3 m Farm name 23 28 3 4 Line length (m) 23 18, 3 m Registration number and Division 4 12 Sub-division (Lem Ext) Compilation number 28 3 4 Line length/Site area (m²) | |
| 3 Brief description of the surrounding area The will be built on 9 black chy Spil Churf and He area Will by Jaran and 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 - Distribution Environmental Screening Document (DESD)

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 acce

recommendations made

Assessor/s

BAKGATLA BA MMAKAU TRADITIONAL COUNCIL

2022 -05- 13

P.O. BOX 1 BA-MOKGOKO 0432

Form completed by

in consultation with : 👠

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

DATE COMPLETED: K...

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Annex B (continued)

1 Project description

| Project name/Survey Request Project number Project number Rural scheme/ Supply from Supply from Supply to (Farm name, etc.) |
|--|
| 2 Properties traversed |
| Farm name Registration number and Division Compilation number Registration number Registration number and Division Registration number and Division Registration number 28 BA Line length/Site area (m²) (13.18.2)m² 28 DR |
| 3 Brief description of the surrounding area The new puckled powerful commences Ling There is few bush cleaning in Section in allowing the femal and Hill is bush Clayey and red Clayey Soul 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: Cavity dam |
| Potential impact (e.g. threat of pollution): |
| 4.2 Soil: sandy rocky Clayey OTHER |
| Present condition: Sandy and black clayers Potential impact (e.g. of erosion) Muddy but Completed: 4.3 Topography mountains ridges hills valleys ravines dongas OTHER Texam |
| Present condition: Hat tervain |
| Potential impact (e.g. of erosion) COMPCLE HEYYOMM |
| Comments/mitigating measures: 1 |

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| | | nex B ntinued) | | | |
|---|---|---------------------|---------------|---------------------------------|--------|
| 5 Natural environment | | | | | |
| 5.1 Flora: indigenou | protected | exotic | OTHE | ₹ | |
| Brief description and conservat | ion status (e.g. rare, | etc., mention trees | s/bush/grass) | | |
| Potential impact (e.g. permit ap | | | ~ , | + | |
| 5.2 Fauna: mam | mals | birds | OTHER | ure Stoc | ek |
| Λ | ion giraffe, elephants | 9- <i>M</i> | Md C | attle. | |
| Comments/mitigating Comments/mitigating Comments/mitigating | ellet | -10 (uA | ón M | measures A Measures | r. |
| 6.1 Restricted nature/game reserves Residential green belts | e hiking trails sacred/holy grounds | OTHER . | ' | recreational areas WLL/gn | razine |
| Brief description Land | used for | resider | itial, pre | sh pro | due |

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| Potential impact e.g. th | | Annex B (continued) nent, etc | ā A | rmecated | |
|--------------------------|------------------------------------|---|--------------------------------------|--|------------------|
| 6.2 Visual aesthetics | easily seen | hidden | | partially. | |
| Brief description | 30% e 300 No m | esli, S hidden påvia r pact | | en | |
| 6.3 Natural heritage: | cultural significance graves | archaeological objects meteorites | monuments ruins | palaeontological objects OTHER | |
| | f 1999 be identifie | d, the requirements | s of Act 25 of 199 SAHRA shall be | ined in the National H 9 shall be followed by no notified. | |
| Comments/mitigating n | neasures A A P | plicate | ou ve | quired. | |
| 7 Economic envir | onment | | | | |
| | ops ame farming | orchards forestry areas | grazing mining | crop spraying OTHER SUM FYESH P | 1 flower roduce. |
| Brief description | engly | used f | of lux | stock ja | vmûe, duces |

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| Annex B (continued) |
|--|
| Potential impact |
| 7.1.1 Commercial: factories shops OTHER SUM FLOWUV |
| 7.1.1 Commercial: factories shops OTHER SUM FLOWER FRESH PROMUCE, Brief description The land used for westock & fresh produce. Potential impact NO MARKET |
| 7.1.2 Infrastructure: roads railways communications power lines air fields oTHER |
| Brief description: Chell for Undly Ground. |
| Potential impact hell for underground Nater pres |
| Comments/mitigating measures: Chelle with fam foreman and community members before Construction is commenced. |

.....

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Annex B
(continued)

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

Physical

| • | ct will this project have on elements 4 to 7' vsical | ? |
|-------------|--|--|
| No impact (| 0) (Medium impact (2) | High impact (4) |
| 2. Na | ural | |
| No impact | 0) Medium impact (2) | High impact (4) |
| 3 So | cial ⁻) | |
| No impact | 0) Medium impact (2) | High impact (4) |
| Overall imp | act: | |
| | | npact of the project. The impacts as assessed in the eed 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.

High impact

Alternatives

No impact

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

Medium impact

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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.
- 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.
- 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)

- 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 protected trees. etc.). | during the scoping SAHRA and R | | i.e. erosion berms, | bird flappers, |
| | | Coud Crossing | ••••• | ********** |
| 1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | *************************************** | | |

TYPICAL MITIGATION MEASURES

| ENVIRONMENTAL CONCERNS | MITIGATION MEASURES |
|---|--|
| AGRICULTURE | |
| 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)

| | | (continued) |
|---|-------|---|
| Aesthetics | | creen with natural of planted vegetation restoration. |
| | | void linear access down the right-of-way. |
| | | ddition of topsoil to gravel access roads. |
| | | oarding construction sites. |
| | | nstallation of landscaping in advance of site |
| | | ompletion. |
| Inconvenience | | elect route and method of installation to suit |
| Į | | andowners' conditions. |
| | - s | select timing of activity. |
| Heritage resources | | voidance/isolation. |
| Į | - d | esign measures to make facility less obtrusive. |
| Į | | creening. |
| Į | - a | Iternate methods of equipment. |
| Į | - p | rotection by use of enclosures, barrier fencing, |
| Į | | overing. |
| l | | alvage in conjunction with SAHRA. |
| | | elocation in conjunction with SAHRA. |
| Tourism and recreation resources | - d | esign measures to make facility less obtrusive of |
| | | isruptive. |
| Į | - \$1 | creening and restoration. |
| Į | | ninimise noise and dust. |
| Į | - S | afety precautions to protect the public. |
| | - S | cheduling to avoid peak use periods. |
| WATER QUALITY | | |
| Sedimentation of streams due to | - m | ninimise use of slopes adjacent to streams during soils |
| erosion from the right-of way. | | esting, construction and maintenance. |
| | - m | naintain a cover crop. |
| ! | - re | etain buffers. |
| Stream bank erosion. | - n | nechanical erosion control. |
| | - re | etain shrubby stream bank vegetation and selectively |
| | | ut or prune trees during line clearing/maintenance. |
| | | elective spraying of herbicides. |
| | | Mechanical erosion control. |
| Impedance of natural flow | | se and maintenance of appropriate stream crossing |
| streams/others surface waters. | | evice. |
| Ponding or channelization of surface | - tii | ming activities to stable ground conditions. |
| waters due to rutting. | | se of gravel roads. |
| Contamination of surface or ground | | pill control material and procedures readily available. |
| waters through spills or leaks of toxic | | ite selection where possible. |
| substances. | - 5 | ite selection where possible. |
| Soil compaction/topsoil-subsoil mixing. | - a | voidance of rutting by vehicles where possible. |
| Son compaction/topson-subson mixing. | | |
| | | onstruction timing. |
| | | se of gravel roads. |
| | | se of vehicles with low bearing pressures. |
| Mindhustororgion | | top activities when ground conditions are poor. |
| Wind/water erosion. | | voidance of areas with high erosion potential. |
| | | ming activities to the most stable ground conditions. |
| | | lope stabilisation. |
| | | nechanical erosion control. |
| | | egetation erosion control. |
| | | ecompaction of trenches. |
| | - a | void trenching parallel to the fall of a slope. |