CHARGAMMENTAL MAPAGY ASSESSMENT FOR CHARTMAN ACTIVITIES

Unique Identifier:

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Revision.

Page:

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anex 8 - อิเรสท์อาลัยก Environmental Screening Decument (DESD) (Informative)

Reviewation Powerlines and Ancillary Services

| Ratified and accepted by | |
|-----------------------------------|-------------------|
| Environmental Practitioner | |
| Environmental Specialist | |
| Head of Engineering Survey | |
| (one signature please) | 1000 |
| Accepted by Land Owner/s/Users | 1 V- 0 M |
| I have seen the completed documer | nt and accept the |
| recommendations made | x 9tt |

E-----animalated by

J. Kampadi sig

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

0 < 1

Instructions

- Fill the report in as neatly and completely as possible.
- Where the guestion / 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.

POTE Complete the report before the surveylil

This is not an office exercise.

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

28(05) 28(0) 799 ENVIRONMENTAL (WEAST ASSESSIMENT FOR Unique Identifier DISTRIBUTION ACTIVITIES Revision: Page: . r.ne.: E (continued) Project description Project name/Survey Project number Rural scheme! Feeder Supply from (scheme name, pole n Supply to (Farm name, etc.) - chardes deversed Registration number and Division 6.2.5 L.S. Sub-division Pta 1
Compilation number 2339 C.D. Line length (m) 2.737 m. Farm name Compilation number 2339.C.D......Line length/Site area (m⁻) 3 Brief description of the surrounding grea the esciptue one on the appose the farm road. The Could the proposed project have an impact on or be constrained by any of the following on as an active aspects? Encircle the appropriate aspect, giving a description of the present state as and as an advances or the possible negative impact. Note that mitigating measures for these impacts are as a Madelife as Environmental Management Programme.

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| | Page: | 30.08.30 |
| ాగాలు కే (continued) | | |
| A Physical environment | | |
| 4.1 Water: streams rivers dams wellands springs | | ER Dyyland |
| Potential impact (e.g. threat of pollution): | yyy gra | Sty |
| 4.3 Soit: sandy rocky cla | yey UTHER | |
| Present condition: Sandy Soil. Recording impact (e.g. at erosion) Compact. | due to | grass. |
| Potential impact (e.g. of erosion) Compact. | es donges OTHE | 05/0 ping |
| Present condition: Sloping area | | Section 10 |
| Potential impact (e.g. of erosion) | t sou | No. 100 100 |
| Comments/miligating measures: LY 12 D. D. L. C. | andard | <i>S 1</i> |
| | LISSOSSON VOICE - E L'EST | 60 (60) ²⁰⁰ |

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| | | (co | ntinued) | | | |
| 5 Watural area 5,4 Plora: | (indigenous |) protected | | | OTHER | |
| Brief description a | oin | Thers | | | | ut. |
| Potential impact (e | | cations PEX.M | | | | Poultry ferrm |
| Brief description a (e.g. rare, protecte Potential impact (| ed, etc., mentior | giraffe, elephant | batoc | W 3 | km a | way |
| Comments/miliga | Edare | birdo. | fui€ | end | لي | design |
| & Social envi | ronment | | | | | |
| 0,1 Restricted areas: Residential- areas | | sacred/holy grounds | | oultre | s fa | |
| Brief description | Lan. | d us | ed | QΣ | Pou | l by |

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dermacated hidden 3.2 Visual aesthetics: / easily seen _L seenntological cultural archaeological топываеть significance objects graves meteorites Mote: Should any natural heritage resource as listed above, or as defined in the Mational Resource Act, No 25 of 1999 be identified, the requirements of Act 25 of 1999 days be followed by reallying the SAHRA. If time or access read length exceeds 200m SAHRA shall be not to

Comments/mitigating measures

? Economic environment

7.1 Land use:

crops

game farming

orchards

forestry areas

grazing mining

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| (continued) | | , |
| Potential impact Use birob friend | dly design | standards, |
| shops shops | OTHER. | faxm. |
| Brief description Land USED for Potential impact Standards | poul my nd by d | jarmine, esign |
| Potential impact Toads railways railways community pipelines sewage OTHER Community pipelines Community pipelines Sewage OTHER Community pipelines Community pipelines Community pipelines Sewage OTHER Community pipelines Community pipelines Sewage OTHER Community pipelines Sewage OTHER Community pipelines pipelines Community pipelines pipelines pipelines pipelines pipelines pipelines pipeli | lorg young | chore line new line night Standards |
| Sommenie/misigenting/massures. Hiend | Dy desu | · % |

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| 34กาขาม ครับ ครับ 13 ค | Revision: Page: | ja . |
| V.S.Frid (contin | | |
| What impact will this project have on elements 4 to 7? 1. Physical | | |
| No impact (0) wiedium impact (2) | High impact (4) | |
| 2. Natural (No impact (0) Medium impact (2) | High impact (4) | |
| 3. Social Medium Impact (2) | High impact (4) | |
| Overall impact: This section addresses the overall environmental impact above three spheres (physical, natural and social) need to be impact. | pact of the project. The impacted to be considered to determine at High Impact | ts as assessed in the a the overall impact |
| If the overall impact is between 2 and 4, conta Environmental Senior Superintendent. | ect the Environmental Manage | ement Officer of the |
| Alternatives Have alternative routes been discussed with the relev | ant land owner/s or users? | |
| | | |
| Yes | | |
| Detailed study | Decidation 95/39 | |
| Is an environmental assessment required in terms of | Ragulation (Co.C.) | |
| Yes | | |
| Should a permit application be made to DWA? | | |
| Yes No | | |
| Should the SAHRA be notified? | | |
| Yes No | | |

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ENVIRONMENTAL IMPACT ASSESSMENT FOR DEPARTMENT AUTOMICS

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4 General conditions

- 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 tandowners have been informed before moving onto site.
- Y.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.
- 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 white stringing is taking place. Open gates shall be guarded to prevent animals straying and unauthorised persons and vehicles entering into adjacent camps or properties.
- 7.5 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.
- No property may be accessed after normal working hours except with the permission of the landowner. Privacy shall be respected at all times.
- 1.5 Eskom, Eskom's contractors and their employees shall at all times be courteous towards landowners, tenants and the local community.
- 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.
- Vehicles shall be driven at a moderate speed on private roads and stay within the statutory speed limit on public roads.
- 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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- 1.33 If any vehicle should get stuck, the damage shall be repaired immediately so that no deep ruts remain.
- 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.
- 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 teft 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.
- 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.
- 1.47 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 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.
- 7.20 All excavations shall be enclosed to prevent animals or people from accidentally falling into excavations.
- 1.27 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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| E Special soudinions | | | |
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| (Specific issues identified protected trees. etc.). | during the scoping | as needing attention | i.e. eroslon berms, bird flappers, |
| | | | |
| | | | |

TYPICAL WITIGATION WEASURES

| ENVIRONMENTAL CONCERNS | BESTURATION MEARING |
|---|--|
| AGRICULTURE | |
| Loss of standing crop due to access road and tower work site. | limit width of access and size of lower 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 fost, injured livestock. |
| SOCIAL IMPACTS | |
| Mud and Dust | wetting down dry soils. chemical control of dust. cleaning roads to remove mud. temporary planting of grasses. |

EMPRONUENTAL IMPROTASSESSIMENT FOR DISTUBLINGMAD OVINES

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| Aesthetics | - screen with natural of planted vegetation restoration. |
| | - avoid linear access down the right-of-way. |
| | addition of tensoil to gravet |
| | addition of tobacil to thavel access made |
| | I modraing construction sites. |
| | installation of landscaping in advance of site |
| Inconvenience | completion. |
| | Toolset foute and mellion of installation to enit |
| | landowners' conditions. |
| Heritage resources | select timing of activity. |
| l l l l l l l l l l l l l l l l l l l | - avoidance/isolation. |
| į,b | design measures to make facility less obtrusive. |
| | - screening. |
| 7 | alternate methods of equipment. |
| | - protection by use of anclosures, barrier fencing |
| | Covering. |
| - 16 | - salvage in conjunction with SAHRA. |
| Tourism | - 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 | sorrodaling to avoid peak use periods. |
| Sedimentation of streams due to | - minimise use of alance adia. |
| erosion from the right-of way. | I difficulting the control of the co |
| , | testing, construction and maintenance. |
| | member a cover crop. |
| Stream bank erosion. | |
| Control of the Contro | moshemear Grusion Control. |
| | - retain shrubby stream bank vegetation and selectively |
| | cut of prune tress during line clearing/maintenages |
| | 1 - Selective spraying of herbicides |
| impedance of natural flow | - Mechanical erosion control. |
| mpedance of natural flow treams/others surface waters. | - use and maintenance of appropriate stream crossing |
| Vonding of class III iii | device. |
| onding or channelization of surface | - timing activities to stable ground conditions. |
| aters due to rutting. | - use of gravel roads. |
| ontamination of surface or ground | |
| aters through spills or leaks of toxic | I Provide thatchar and properties regardly available |
| ibstances. | - site selection where possible. |
| oil compaction/topsoil-subsoil mixing. | |
| mixing, | - avoidance of rutting by vehicles where possible. |
| | - Construction timing. |
| | - use of gravel roads. |
| | - use of vehicles with low bearing pressures. |
| nd/water erosion. | - stop activities when ground conditions are poor |
| norwater erosion. | avoldance of areas with high erosion potential |
| | - timing activities to the most stable ground conditions. |
| 1 | - slope stabilisation. |
| i i | - mechanical erosion control. |
| 1 | vegetation erosion control. |
| 1 | recompaction of trenches. |
| 140 | recompaction of trenches |
| | avoid trenching parallel to the fall of a slope. |