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Annex B - Distribution Environmental Screening Document (DESD) (Informative)

Reticulation Powerlines and Ancillary Services 100 02/03/2000

SERENZUE

かけんこいらひ

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 accept the

recommendations made

12.01

Assessor/s

Form completed by

Signature ..

in consultation with '

ROT CHICAMESIgnature Children Ring
vner. specialist) CHIE-Y-

CAPACITY (e.g. land owner, specialist)

DATE COMPLETED.

25/02/2020

Instructions

- 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
- 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.

Private Bag X423 ACORNHOEK 1360

25 -02- 2020

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1 Pro	ject d	escri	ption
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Project name/Survey

Request

Project number

MBC352260643

Rural scheme/

Feeder Supply from AIRTHURSCAT-SEHLONG EP ASC 93 9 94.

(scheme name, pole numbers for tee-off)
Supply to Precious MALATIA

(Farm name, etc.)

Area MOU

Voltage 72 hV

2 Properties traversed

Farm name ARTHURSENT

Registration number and Division 71

ZIY-KV Sub-division 12/6

441 M

Compilation number

Farm name

Compilation number

Registration number and Division ..

Line length (m)

3 Brief description of the surrounding area

THE LINE WILL SUPPLY THE NEW CHICAEN FARM IN VOILETBANK.

.. ..

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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(continuea)			
4 Physical environment			
4.1 Water. streams rivers dams wetlands springs floodplains OTHER や/イ・			
Present condition			
Potential impact (e.g. threat of pollution):			
4.2 Soil: clayey OTHER .			
Present condition GCOD SCIL CONDITION: Potential impact (e.g. of erosion) PUNSABLE SIGHT SWACT. 4.3 Topography mountains ridges hills valleys ravines dongas OTHER			
Present condition RELATIVILY SLAT ARCA. Potential impact (e.g. of erosion) PLAUSHISE SMALL THIRACT			
Comments/mitigating measures No. MITIGATING MCASURUS TO BE THICK TO PROTECT THE PHYSICAL CAVITROMENT.			
•			

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			nnex B ontinued)		
5 Natural en	vironment	`	,		
5.1 Flora:	ındıgenous	protected	<u>j</u> ex	otic	OTHER
Brief description :	H AND GR	V1S5			
Potential impact ((e g permit appli	cations ONLY	FRUIT TO	RECS CUSIC	AG CUT.
•	4114 4 4				* *******
5.2 Fauna.	mamma	als	birds	ОТН	ER
e g rare, protect COATS Potential impact (ted, etc , mention <i>S〜</i> とルークル	giraffe, elephant	rsat		on migratory paths)
	••••••••				
Comments/mitigating No MITIGATING MEASURES TO 30 IMPLOMENTED TO PROTECT THE MANURAL ENVIRONMENT					
6 Social environment					
6.1 Restricted areas	nature/game reserves	hiking trails	tourism route	s parks	recreational areas
Residential areas	green belts	sacred/holy grounds	OTHER		
Brief description	Develoran	c Respon	WLEAL 1	men.	

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Potential impact e g thre	eat of encroachn	nent, etc		
6.2 Visual aesthetics	easily seen	hıdden	pa	artially
Brief description 1116	° LINC	WILL NUN	ON 5722	et Perot.
			(****	•••
Potential impact	ZMPACT.			
6.3 Natural heritage:	cultural significance	archaeological objects	monuments	palaeontological objects
	graves	meteorites	ruins	OTHER .
	1999 be identifie	d, the requirements o	f Act 25 of 1999 sl	d in the National Heritage nall be followed by notifying tiffed.
Potential impact 7/16	Une I	5 462 m.	Lowe.	••
Comments/mitigating me	easures SAHM	4 NIENS TO	BE -1007	SPICO.
7 Economic enviro	onment	,,,,,,		
7.1 Land use cro	ps ne farming	orchards forestry areas	grazing mınıng	crop spraying OTHER
Brief description 1146	CAUC U	Eli Surrey	A CHICA	on fine.

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Potential impact

7.1.1 Commercial:

shops

OTHER

Potential impact

THE CINE WZLL SUMPLY POSTITUELY -

7.1.2 Infrastructure

roads

railways communications power lines

pipelineş

sewage

OTHER

Brief description LEXTS IZIN 6 WATCA

PUNCALINE THE ANCH IS

Potential impact . DAMAGE .

Comments/mitigating measures:

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		nnex B ontinued)	
What impact will this pr 1 Physical	oject have on elements 4 to	7?	
No impact (0)	Medium impact (2)	High impact (4)	
2 Natural			
No impact (0)	Medium impact (2)	High impact (4)	
3. Social			
No impact (θ)	Medium impact (2)	High impact (4)	
	s the overall environmental hysical, natural and social) r 2 ct Medium impact	need to be considered to det	

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 u	sers?
YesNo	

Detailed study

Is an environmental assessment required in terms of Regulation R543?

Yes No
Should a permit application be made to DWA?
Yes
Should the SAHRA be notified?
Yes

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Annex C - Environmental Management Plan

(Normative)

1 General conditions

รับได้เรียกรับที่เกิด ราก เกิดการเกิด ค. โดยการกิจต่องการเสียกที่ เป็นและสมิติเกียกที่ ได้เป็นได้ใช้เป เพื่อเกิดต่อง 2000 ค. วิวาคา เกิดการการการการการเกิดต่องการการคลาดต่องการการเกิดต่องเลือด ในสังเดิดต่องตัดต่อ

- 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, re-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.
- 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
- 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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TENNE CREATER OF CHISTOPHIA COLORS CONTRACTOR OF STANK OF THE COLORS

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Annex C

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(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

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(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
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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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	- minimise use of slopes adjacent to streams during soils
erosion from the right-of way	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	- use and maintenance of appropriate stream crossing
streams/others surface waters	device
Ponding or channelization of surface	- timing activities to stable ground conditions
waters due to rutting	- use of gravel roads
Contamination of surface or ground	- spill control material and procedures readily available
waters through spills or leaks of toxic	- site selection where possible
substances	and deligation miles problems
Soil compaction/topsoil-subsoil mixing	- avoidance of rutting by vehicles where possible
The state of the s	- 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
	avoid trottorarily purchase to the fall of a slope

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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 maintaining a cover crop
and increased turbidity due to sedimentation	- 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
routes	areas for waterfowl migration
	- 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 to soil	- time construction/clearing to take advantage of
disturbance (topsoil-subsoil mixing)	stable soil conditions