ENVIRONMENTAL IMPACT ASSESSMENT FOR

DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

NO STAMP

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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

I have seen the completed document and accept the

recommendations made

Form completed by

6

Assessor/s Signature:

in consultation with : P.

Ledwoods

Signature:

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

DATE COMPLETED OS/OS/2021

15/05/2621

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.
- 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

Project name/Su Request MA	rvey THIBELA ELEC	TRUFI CATICAL	Area	ZEBED	KELA		
Project number	PEGGING	C	File num	ber			
Rural scheme/ Feeder	CONTUC						
Supply from	MGT 17/5	19/10/12/	4/2/4	.,,,			
	pole numbers for te MATHIBE	e-off)					
(Farm name, etc	.)						
2 Properties		Cocoau	ncr				
Farm name		GROOTH	*************		0-10		
Registration num	nber and Division	106 K	5	Sub-division	KEIVI		
	nber 2429						·sm
Farm name	nber and Division						
Registration num	nber and Division			Sub-division			
Compilation num	nber	Line	length/Site	area (m²)			
3 Brief desci	ription of the s	arrounding a	irea				
	SLOPED			EDGE	OF 1	EURAL	
TOWN .	NEW S	TANOS					
I 600 m	5 South	OF C	YOWA	N			
	ARGA.	LOW F	ERCEN	TAGE	BUSH		
	AGE						
SAMOY	70 R	ocicy s	OIL				

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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Present condition: NO STREAMS Potential impact (e.g. threat of pollution): NO JMPACT 4.2 Soil: Sandy TOKY CLOSE TO MOWNTAIN Present condition: SANDY AND ROCKY CLOSE TO MOWNTAIN Potential impact (e.g. of erosion) NO EROSION 4.3 Topography mountains ridges hills valleys ravines dongas OTHER FLAT Present condition: SHGHTLY SLOPED AREA Potential impact (e.g. of erosion) NONE FORESEEN	4 Physical environment
Potential impact (e.g. threat of pollution): NO ImPacT 4.2 Soil: sandy rocky clayey OTHER	4.1 Water: streams rivers dams wetlands springs floodplains OTHER. NOWE
4.2 Soil: sandy rocky clayey OTHER Present condition: SARJDY AND ROCKY CLOSE TO MOUNTAIN Potential impact (e.g. of erosion) NO EROSION 4.3 Topography mountains ridges hills valleys ravines dongas OTHER FLAT Present condition: SHGHTLY SLOPED AREA Potential impact (e.g. of erosion) NOME FORESEEN	Present condition: NO STREAMS
Present condition: SAMDY AND POCKY CLOSE TO MODIFICATION Potential impact (e.g. of erosion) NO EROSION 4.3 Topography mountains ridges hills valleys ravines dongas OTHER FLAT Present condition: SLIGHTLY SLOPED AREA Potential impact (e.g. of erosion) NONE FORESEEN	Potential impact (e.g. threat of pollution): NO ImPact
Potential impact (e.g. of erosion) NO EROSION 4.3 Topography mountains ridges hills valleys ravines dongas OTHER FLAT Present condition: SUGHTLY SLOPED AREA Potential impact (e.g. of erosion) NONE FORESEEN	4.2 Soil: sandy rocky clayey OTHER
4.3 Topography mountains ridges hills valleys ravines dongas OTHER FLAT Present condition: SLIGHTLY SLOPED AREA Potential impact (e.g. of erosion) NOME FORESEEN	Present condition: SANDY AND POCKY CLOSE TO MOWNTAIN Potential impact (e.g. of erosion) NO EROSION
Potential impact (e.g. of erosion) NOME FORESEEN	4.3 Topography mountains ridges hills valleys ravines dongas OTHER FLAT
	Present condition: SLIGHTLY SLOPED AREA
Comments/mitigating measures: NONG	Potential impact (e.g. of erosion) NONE FORESEEN
	Comments/mitigating measures:

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5 Natural env	rironment				
5.1 Flora:	indigenous	protecte	d exc	otic O	THER NOWE
Brief description a	ONG I	31G CAN	DELABRI OT PROTE	a TREE	
5.2 Fauna:	mamma	ils	birds	OTHE	R Domestic
	ted, etc., mention	giraffe, elephar ANIMALS	ion, etc)		
Comments/mitiga	ating	NONE			measu
6 Social envi	ronment				
6.1 Restricted areas:	nature/game reserves	hiking trails	tourism route	s parks	recreational areas
Residential- areas	green belts	sacred/holy grounds	OTHERM	ON E	
Residential-	green belts	Proceedings of the Control of the Co			areas

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		Annex I		
Potential impact e.g.	threat of encroaching	PAR CHECOGLUSISTES		
6.2 Visual aesthetic	s: easily seen	hidder	n	partially
Brief description	OPEN ARG ERCENTAGE	A IN BUSH C	RURAL T	own with
Potential impact	UISIOAL D LINES	N07 A	nce, Los	rs of Ales
6.3 Natural heritage	cultural significance	archaeological objects	monuments	palaeontological objects
	2010 TO 1010 TO 1010 TO 1010	meteorites	ruins	OTHER NOW
	of 1999 be identified or access road leng	ed, the requirement gth exceeds 300n	nts of Act 25 of 1999 n SAHRA shall be r	
Comments/mitigating	measures			
THIS MY	1 LINES 1	SAHRA	S,2m A SHOWLD BG	NORTHERD
7 Economic env				
7.1 Land use:	crops	orchards	grazing	crop spraying
	game farming	forestry areas	mining	OTHER PESOCHINA
Brief description	RESIDEN 4 CDGE	TIAL AR	EA NE	W STANDS

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Annex	B
(continue	dì

Potential impact	NO	Impact			
7.1.1 Commercial:	factor	ies	shops	OTHER	
Brief description Potential impact	Few	SMALL IMPAC	SHCCS T		
7.1.2 Infrastructure:		railways es sewage	communications OTHER	bower lines	air fields
Brief description:	only f	EYISTING	POWERLIN	J€ AT	
Potential impact	Nο 2	Impact			
Comments/mitigatin					

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Annex	В
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What impact will	this project	have on	elements 4	to 7?
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1	Physical
	FillySical

No impact (0)

Medium impac

High impact (4)

Natural 2.

No impact (0)

Medium impact (2)

High impact (4)

3. Social

No impact (0)

Medium impac

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

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?

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

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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.
- 1.5 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

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- 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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	2	Special	conditions
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Specific issues identified protected trees, etc.).	during the	scoping a	s needing	attention i.	e. erosion	berms,	bird	flappers,
NONG								

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.
WATER QUALITY	- scheduling to avoid peak use periods.
Sedimentation of streams due to	- minimise use of slopes adjacent to streams during soils
	testing, construction and maintenance.
erosion from the right-of way.	- maintain a cover crop.
Stream bank erosion.	
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	Mechanical erosion control. 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.
STORESTON CONTRACTOR OF THE ST	
Contamination of surface or ground	- spill control material and procedures readily available.
waters through spills or leaks of toxic	- site selection where possible.
substances.	
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.