ENVIRONMENTAL IMPACT ASSESSMENT FOR

DISTRIBUTION ACTIVITIES

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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 M L Lange
I have seen the completed document and accept the
recommendations made ML Larya
Form completed by In consultation with: Assessor/s Assessor/s Assessor/s Assessor/s Form completed by In consultation with: Assessor/s Assessor/s Assessor/s Form completed by Assessor/s Form completed by Assessor/s Form completed by In consultation with:
in consultation with: LIMH Signature: Mt. Consu
CAPACITY (e.g. land owner, specialist): HEADMAH
DATE COMPLETED: 17-03-2022

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

Project name/Cunjoy
Project name/Survey Request Project number Masmembale Electory Area Project number
Project number Nasmework FLECTE FRAFIXATION Imper
Rural scheme/
Rural scheme/ Feeder VNB Voltage 22KV
Supply from
(scheme name, pole numbers for tee-pff) Supply to VNB 3/8/18/24/7/6/6/10 ANA VNB 3/8/8/84/7/17
(Farm name, etc.)
2 Properties traversed
Farm name ABBOTS free PT
Farm name Registration number and Division
Compilation number
Farm name
Pagietration number and Division Sub-division
Registration number and Division
Compilation number
3 Brief description of the surrounding area
VILLAGE EXTENSION
VILLAGE CXTEXION
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 P	nysicai	environi	ment						
4.1 \	Water:	streams	rivers	dams	wetlands	springs	floodplains	OTHER	
Pres	ent condit	tion:	ne d	on (1)	TE.				
Pote	ntial impa	ct (e.g. thre	eat of poll	ution):	Ve				
4.2 \$	Soil:	Sand	dy)	ro	cky	clayey	(
Pres	ent condit	ion:		***************	4 + 4 + 4 + 8 & 8 + 5 + 6 + 5 & 6 + 6 + 6 + 6 + 6 + 6 + 6 + 6 + 6 + 6		***************************************		
Poter	ntial impa	ct (e.g. of e	erosion)	ridaes	hills valley	s ravines	dongas	OTHER None	-
Pres	ent condit	ion://	r re f) 1257	16 F				
Com	ments/mit	tigating mea	asures:						
		** *****************				******************			

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5 Natural env	rironment		at 141 Million			
5.1 Flora:	indigenous	protecte	ed	exotic	OTH	IER
Brief description a	14 TRE		***************************************	************		
5.2 Fauna:	mamma		birds		• • • • • • • • • • • • • • • • • • • •	
Brief description a (e.g. rare, protect			nts, eagles, v	ultures, etc	., mention m	igratory paths)
NONE 1	Ceen A	GIZING SI	7E 118	17		
Potential impact (
***************************************	***************************************		•••••	******************		
		*********************	***************************************			
Comments/mitiga	ting	*****				measures:
*****************	****************	****************				
***************************************	****************	*****************				
6 Social envi	ronment		•••••	****	****************	
O Social ellvi	Omment					
6.1 Restricted	nature/game reserves	hiking trails	tourism ro	outes	parks	recreational areas
Residential- areas	green belts	sacred/holy grounds	OTHER .			
Brief description	Lexisen	THE S	n'effal	7.1		

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		Annex E (continued)		
Potential impact e.g.	threat of encroach			
6.2 Visual aesthetic	easily seen	hidden		partially
Brief description	Vo OBET	RUCTIONS		
Potential impact //	on E			
6.3 Natural heritage	e: cultural significance	archaeological objects	monuments	palaeontological objects
	graves	meteorites	ruins	OTHER NONE
Resource Act, No 25 the SAHRA. If line of	of 1999 be identifi or access road ler	ed, the requirement gth exceeds 300m	s of Act 25 of 1999 SAHRA shall be	ned in the National Heritage shall be followed by notifying notified.
Comments/mitigating	measures	***************************************		

7 Economic env	vironment			
7.1 Land use:	crops	orchards	grazing	crop spraying
	game farming	forestry areas	mining	OTHER
Brief description	Youe, No	Animala	of Form	ma Destivities

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Potential impact	NE				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
7.1.1 Commercial:	factories		shops	OTHER	Vove
Brief description	lillapa	***************			
7.1.2 Infrastructure:	roads pipelines	railways sewage	communications	power lines	air fields
Brief description:			4		
Potential impact			мраст		
Comments/mitigatin	_	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			

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Yes No

Yes No

Yes No

Should a permit application be made to DWA?

Should the SAHRA be notified?

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		nex B tinued)						
What impact will thin 1. Physical	s project 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 (0)	Medium impact (2)	High impact (4)						
above three sphere	sses the overall environmental in s (physical, natural and social) ne 0 2	npact of the project. The impacts as assessed in ted to be considered to determine the overall impact	the					
No ir	mpact 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 roo	utes been discussed with the rele	vant land owner/s or users?						
Yes No	_							
Detailed study								
ls an <i>environmenta</i>	l assessment required in terms of	Regulation R543?						

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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.
- 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)

- 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 Spec	ial co	nditions											
(Specific protected		identified etc.).	during	the	scoping	as	needing	attention	i.e.	erosion	berms,	bird	flappers
*************	***********		************		>**************		*************	************			************	*******	
	**********						************				************		

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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Acathotica		age and with a should of alambad as a station of
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.
	1	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.
	1	minimise noise and dust.
		safety precautions to protect the public.
	- 5	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.
	- r	maintain a cover crop.
	- f	retain buffers.
Stream bank erosion.	- r	mechanical erosion control.
	- r	retain shrubby stream bank vegetation and selectively
	C	cut or prune trees during line clearing/maintenance.
	- 5	selective spraying of herbicides.
	- ľ	Mechanical erosion control.
Impedance of natural flow	- į	use and maintenance of appropriate stream crossing
streams/others surface waters.		device.
Ponding or channelization of surface	- t	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.	- 3	site selection where possible.
Soil compaction/topsoil-subsoil mixing.	_ ,	avoidance of rutting by vehicles where possible.
com compaction/topson-subson mixing.		construction timing.
		use of gravel roads.
		use of yehicles with low bearing pressures.
Wind/water erosion.		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.
	- 6	avoid trenching parallel to the fall of a slope.