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
I have seen the completed document and accept the recommendations made

Assessor/s
Form completed by

Assessor/s

Form completed by

Assessor/s

Assessor/s

SEBAYENG

Signature

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

DATE COMPLETED: 03/12/20

Instructions

- 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.

4 Desired describeles

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i Project de	scription	
Project name/Su	ırvey	
Request		Area Mankweng
Project number		File number
Rural scheme/	. 4	
Feeder	Madiga	Voltage // K
	, - , ,	149
Supply to	Sebayeng Bo	e holes 1116-0643
(Farm name, etc		
(i aim name, etc	~1	
Compilation num Farm name Registration num	nber 2329 DCH Line Poort geometric Line 12329 DCH Line	Sub-division
3 Brief desci	ription of the surrounding a	rea
		-/- H - L 1
< 1	unity in bush or	of them bush
	sandy Cartle a.	g eas see- 15
riele		

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 Physica	l environ	ment					
4.1 Water:	streams	rivers	dams w	etlands s	prings	floodplains	OTHER
Present cond	ition:		(**************	MIN			
Potential impa	act (e.g. thr	eat of polluti	on):	To ex		***************************************	
	***************************************	***************				***************************************	
4.2 Soil:	san	dy	rocky		clayey		OTHER
Present cond	lition:	Sandy	! <i>sai.l</i>	l with	s 4º	165 15	t
Potential impa	act (e.g. of	erosion)	Noix				
4.3 Topogra	denerge stratifies			A PARTICIPATION	ravines	dongas	OTHER
r resent cond					*************		
Potential impa	act (e.g. of	erosion)	None				
Comments/m	itigating me	asures:	1.				
				····			
	************	******************			************		
	** ***********	***************	**********	************	************		
		*************		***********			

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			continued)		
5.1 Flora:	indigenous	protecte	ed exotic	0	THER
04	y thon	bucks	e, etc., mention trees		
5.2 Fauna:	mamm	als	birds	OTHE	R
Brief description	and conservation	n status:			
Cal	the and	gus s	nts, eagles, vultures,		
The second secon			sion, etc)		
		Nou			
	ating measures	:			
Comments/mitig					
6 Social env					
6 Social env					
6 Social env 6.1 Restricted areas: Residential-	rironment			parks	recreational
6 Social env 6.1 Restricted areas: Residential- areas	rironment nature/game reserves	hiking trails sacred/holy grounds	tourism routes	parks	recreational

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		Annex E (continued	<u>70</u> 0	
6.2 Visual aesthetic	s: easily seen	hidden		partially
Brief description	line i	, hidden	in bush	
Potential impact		Non		
***************************************	***************************************		***************************************	
6.3 Natural heritage	: cultural significance	archaeological objects	monuments	palaeontological objects
	graves	meteorites	ruins	OTHER
Comments/mitigating	*********************	to be n	. I. Freid	
7 Economic envi				
7.1 Land use:	rops	orchards	grazing	crop spraying
g	ame farming	forestry areas	mining	OTHER MIN
Brief description		HIM		
Potential impact				
			***************	***************************************

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7.1.1 Commercial:	Commercial: factories		shops	OTHER		
Brief description Potential impact						
7.1.2 Infrastructure:		railways sewage	communications	power lines	air fields	
Brief description:		*****************			***************************************	
Potential impact		None				
Comments/mitigating) measures:	None				

			*******		************	

Should the SAHRA be notified?

Yes No

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				nex B	
What 1.	impact will this Physical	s project have	on elements 4 to	7?	
No in	npac ()	Medium ii	mpact (2)	High impact (4)	
2.	Natural				
No in	npact	Medium ir	mpact (2)	High impact (4)	
3.	Social				
No in	ipact 🕝	Medium ir	mpact (2)	High impact (4)	
This			tural and social) n	eed to be considered to	The impacts as assessed in the determine the overall impact
	No in	·	2 Medium impact	4 High impact	_
Alter	onmental Senionatives alternative rou			evant land owner/s or us	ers?
Yes No	~				
Detai	led study				
ls an	environmental	assessment re	equired in terms o	f Regulation R543?	
Yes		-			
No					
Shou	ld a permit app	lication be ma	de to DWS?		
Yes	10-	3			
No	_	2			

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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.
- 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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- 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 condition	ons
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protected trees. etc.).		×.			flappers,
SAL				 	

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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screen with natural of planted vegetation restoration. Aesthetics 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. select route and method of installation to suit Inconvenience 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. flow use and maintenance of appropriate stream crossing Impedance natural streams/others surface waters. 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. 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.