ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

LIMPOPO PR BOLOBER UNDER CHIEFTAINES M. A.A.

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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

in consultation with: Where was to manignature: Mayeres was many

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

DATE COMPLETED: 29/04/2019

Instructions

- Fill the report in as neatly and completely as possible.
- 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.

HEADMAN RESEKGWALO

MOHLABANENG VILLAGE BELLEVUE BLOCK \$

2019 -04- 29

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			nex B	3	
1 Project de	scription	(CO)	ntinued)		
Project name/Su		1 R			
Project number Rural scheme/	B256 961 31)	B	File number	HLABANE	
Feeder Supply from (scheme name, p	BOLOBE DU - BMP40 13 ole numbers for tee-or	(A)			
Supply to (Farm name, etc.)	MIOPANI DIS	TRICT	MUNICIP!	9LITY (BO	KEHOLE)
2 Properties t		- ////			The state of the s
arm name	STATE er and Division	Line len	gth (m) 6.4	1-62M	
	r and Division r				
Brief descript	ion of the surrou	nding area	, ,	, ,	Street and a Street
flat temus	13 generale 1 rules soll	which	exalteris Few En	unnes	······································
push are		area.	There organ	es and wextines	and

demestic mammals within the area. The area.

Could the proposed project have an impact on or be constrained by any of the following environmental

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.

RESOLUTION FIRM FROM CHA

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4 Fnysica	ii environment				
4.1 Water:	streams rivers	dams wetland	s springs floo	dplains OTHER	
Present cond	ition: None of	the abou	e B with	in the area.	
CONTRACTOR CASSOCIATION TO SERVICE					Gi taus
		······································	·····		
4.2 Soil:	(sandy)	(rocky	ciavev	OTHER	
				O () La (
Present conditi	on Sandy	and rock	y 501/ t	ypes characters	<u> </u>
Potential impac	ot (e.g. of erosion)	Ho Impact	7.		
4.3 Topograpi	hy mountains ri	idges hills valley	ravines dong	as OTHER	
Present condition	on: Mone of	the ab	we Bur	lin the area.	
	nating measures:				
		·····································			
	•••••••••••••••••••••••				
••••••••••••••••••					

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Potential imp	witten the act (e.g. permit a	Pelications	ounding a	rea.	grass) Fuw bree
5.2 Fauna:		mmals)	birds		OTHER
Brief descripti	on and conserva	tion etatus:			
e.g. rare, prof	ected, etc., men	tion giraffe, eler	ohants, eagles, vu	ltures, etc. me	ntion migratory paths)
	-410 61-	4		mahla	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
	W.L	nmais	suin as	COUNTES.	are witurn
the	ance.	mmais			
the	ance.	mmais	ollision, etc)		
the	ance.	mmais			
otential impa	area: ct (e.g. threat of	mmais			<i>Z</i> :
otential impa	area: ct (e.g. threat of	mmais			
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otential impa	area: ct (e.g. threat of	mmais			<i>Z</i> :
otential impa	area: ct (e.g. threat of	mmais			<i>Z</i> :
the other or the o	gating Mone	electrocution, c	ollision, etc) //	Impai	<i>Z</i> :
the Potential impa	area: ct (e.g. threat of	mmais		Impai	meas

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6.2 Visual aesthe	etics: easily seen	hidde	n	partially
3rief description	The line	to be but	1 u111 be	castly see
otential impact	No Impais	<i>l</i> .		
3.3 Natural heritag	ge: cultural	archaeological	monuments	palaeontological
	significance	objects		objects
ote: Should any	graves natural heritage of 1999 be identif	meteorites resource as listed a	s of Act 25 of 1999	objects OTHER ned in the National He shall be followed by no
ote: Should any esource Act, No 2 e SAHRA. If line	graves natural heritage of 1999 be identif	meteorites resource as listed a ied, the requirements igth exceeds 300m	above, or as defir s of Act 25 of 1999 SAHRA shall be r	OTHERned in the National He shall be followed by no notified.
lote: Should any Resource Act, No 2! ne SAHRA. If Iline otential impact	graves r natural heritage 5 of 1999 be identif or access road ler	meteorites resource as listed a ied, the requirements igth exceeds 300m	above, or as defir s of Act 25 of 1999 SAHRA shall be r	OTHERned in the National He shall be followed by no notified.
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Potential impact 1/0	Impa	uf.			
7.1.1 Commercial:	factories		shops	OTHER	
Brief description	all of	pyza J	hops are	within	the are
(F	pipelines	railways sewage	OTHER		air fields
Brief description: Pour the area:	*****	•••••			
Potential impact	mpal 1	7.			
Comments/mitigating mea	sures:			•••••	······································
		•••••••••••••••••••••••••••••••••••••••			

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			The same of the water that we are the same that the same t
		Annex B continued)	
What impact will th	is project have on elements 4	to 72	
Physical			
No impact (0)	Medium impact (2)	I Catalogue Communication of the Communication of t	
	model (2)	High impact (4)	
(No impact (0)	Medium impact (2)	High impact (4)	
3. Social		, , , , ,	
(No impact (0))	Medium impact (2)	High impact (4)	
Overall impact:			
This section address	ses the overall environmental (physical, natural and social) r	impact of the project. The im-	Dacte on account in
above tiree spheres	1	need to be considered to determ	nine the overall impact
(No im		4.	
		g	
If the overall impact Environmental Senior	ct is between 2 and 4, con Superintendent.	tact the Environmental Mana	agement Officer or the
	Superintencent.		Same Simon of the
Alternatives			
Have alternative route	s been discussed with the rele	toot land	
Yes	and a doubt with the fele	valitiand owner/s or users?	
No No			
Detailed study			
Is an environmental as	sessment required in terms of I	Pogulation DE 100	
Yes	- qui od in torms or r	regulation R043?	
No 1			
Should a permit applica	tion be made to DWA?		
Yes			
No /			
Should the SAHRA be n	offic dO		
	OUNGQ?		
Yes No			

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Annex C - Environmental Management Plan

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.
- 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.
- 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).
- 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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(Specific issues identifice protected trees. etc.).	d during	the	scoping .	as	needing	attention	i.e.	erosion	berms,	bird	flappers
					••••••••	•••••••	·······			· · · · · · · · · · · · · · · · · · ·	

TYPICAL MITIGATION MEASURES

ENVIRONMENTAL CONCERN	lS .	MITIGATION MEASURES
AGRICULTURE		
Loss of standing crop due to accer and tower work site.	ss road	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	<i>f</i> .	maintain contact with landowner/tenant regarding preferences.
oss 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		supported for lost, injured investock.
/lud and Dust		wetting down dry soils. chemical control of dust. cleaning roads to remove mud. temporary planting of grasses.

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	(continued)
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.
Tourism and recreation resources	- relocation in conjunction with SAHRA. - 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	echedaling to avoid peak use periods.
Sedimentation of streams due to erosion from the right-of way.	 minimise use of slopes adjacent to streams during soils 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.
mpedance of natural flow treams/others surface waters.	 use and maintenance of appropriate stream crossing device. timing activities to stable ground conditions.
raters due to rutting. ontamination of surface or ground aters through spills or leaks of toxic ubstances.	 use of gravel roads. spill control material and procedures readily available. site selection where possible.
oil 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.
ind/water erosion.	 stop activities when ground conditions are poor. 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.
	recompaction of trenches. avoid trenching parallel to the fall of a slope.