ENVIRONMENTAL IMPACT ASSESSMENT FOR

DISTRIBUTION ACTIVITIES

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240-72597722

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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	417************************************
(one signature please)	
Accepted by Land Owner/s/Users	A STATE OF THE STA
I have seen the completed docume	ent and accept the
recommendations made	
Form completed by Mctshiri	Assessor/s
in consultation with:	Signature:
CAPACITY (e.g. land owner, speci	ialist);
DATE COMPLETED: 08-0	8 - 2018

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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(continued)
1 Project description
Project name/Survey Montana Residents Request Project number Rural scheme/ Feeder Supply from Such Sidents (scheme name, pole numbers for tee-off) Supply to (Farm name, etc.)
Parm name Registration number and Division Compilation number CHIMPASE 386 M7 Compilation number CHIMPASE 386 M7 Sub-division Compilation number and Division Registration number and Division Compilation number and Division Compilation number Line length/Site area (m²)
3 Brief description of the surrounding area both Steeping and flat terrain surfaces. There are few these within the area There are fausting powerlines and paved roads within the area schapey. The area is mainly used for resistantial purposed 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

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 Physical	environment				
			springs floods	blains OTHER	
	v				
Potential impac	ot (e.g. threat of poli	ution): Mo Im	palet.	**************************************	
******************************			***************************************		

4.2 Soil:	sandy	rocky	clayey	OTHER	
_					
Present condition	on: Aayey se	et type the	uraclenises	the surround	ha
Potential impac	t (e.g. of erosion)	No impace	<i>f</i>		
4.3 Topograpi	ry mountains	ridges hills valle	ys ravines dong	as OTHER	
				bhe area :	
Potential impact	t (e.g. of erosion)	No impact	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	***************************************	
	gating measures:	,			
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		\		
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o waturai en	ivironment					
5.1 Flora:	indigenous	protec	ted exc	tic	OTHER	
INT WIL	אלו וימער	MAKINGKAIN	re, etc., mention to mg area mpack			
5.2 Fauna:	mamn	nals	birds	ОТН	ER	
(e.g. rare, protection (e.g. rare, protection (e.g. rare) (e.g. ra	domestic	n giraffe, elepha	ints, eagles, vultur 	ogs are	urllin Ll	e.
	ating None				n	neasures:
3 Social env		.,,		······································		
3.1 Restricted areas:	nature/game reserves	hiking trails	tourism routes	parks	recreationa areas	I
Residential- areas	green belts	sacred/holy grounds	OTHER			
Brief description	The una	is gener	ally used	as a n	xsdental d	inels .

全要数据的复数形理等的现在分类数据的第三元数据

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6.2 Visual aesthet	ics: easily seen) hidder	1	partially
3rief description	Te Imes i	to be held	all be	casly seen:
Potential impact	40 Impass			

		archaeological objects	monuments	palaeontological objects
i.3 Natural heritag lote: Should any Resource Act, No 2	significance graves natural heritage i 5 of 1999 be identif	objects meteorites resource as listed led, the requirement	ruins above, or as defil s of Act 25 of 1999	objects OTHER ned in the National Here shall be followed by noti
3.3 Natural heritag Vote: Should any Resource Act, No 29 he SAHRA. If line	significance graves natural heritage i 5 of 1999 be identif or access road ler	objects meteorites resource as listed led, the requirement out the exceeds 300m	ruins above, or as defii s of Act 25 of 1999 SAHRA shall be	objects OTHER ned in the National Her shall be followed by notinotified.
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Potential impact	Impack	•			·····
7.1.1 Commercial:	factories		shops	OTHER	
Brief description	gall spa u trupan	rça dep	s-are arthin	the an	A :
7.1.2 Infrastructure:	pipelines	sewage			
Brief description:	ined re	rad and	powerlines	are w	thin the
otential impactMQ	Impac	l.			
Comments/mitigating	measures:	Vene.			
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Document Classification: Controlled Disclosure **ENVIRONMENTAL IMPACT ASSESSMENT FOR** Unique Identifier: 240-72597722 **DISTRIBUTION ACTIVITIES** Revision: 1 24 66 70 Page: Annex B (continued) What impact will this project have on elements 4 to 7? Physical 1. No impact (0) Medium impact (2) High impact (4) 2. Natural (0) Wo impact Medium impact (2) High impact (4) Social 3. (No impact (0) Medium impact (2) 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 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

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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 fandowner. 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 tollet 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 dismantied 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	s			
(Specific issues identific protected trees. etc.).				
		 ·····	.,,,,,	 ***************************************

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 rutling	 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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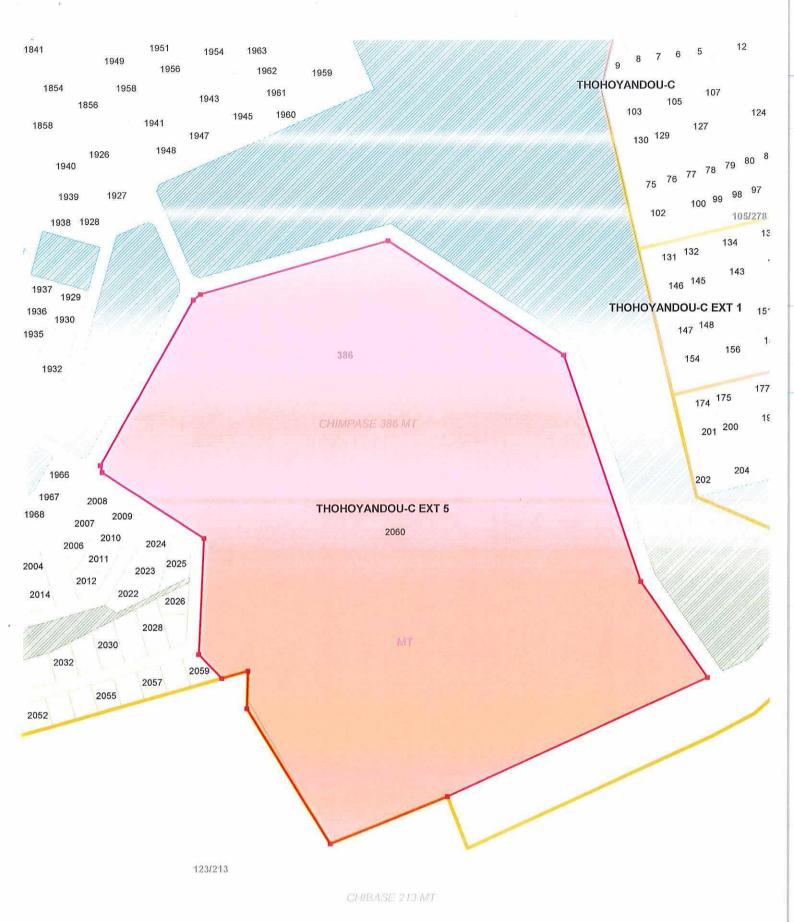
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Aesthetics	 screen with natural of planted vegetation restoration.
	- avoid linear access down the right-of-way.
	 addition of topsoil to gravel access roads.
	- hoarding construction sites.
	installation of landscaping in advance of site
	completion.
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.
1	- 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.
Ougan bank ordston.	- retain shrubby stream bank vegetation and selectively
	cut or prune trees during line clearing/maintenance.
	- selective spraying of herbicides.
lunuadana of anticol florid	- 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.	Site delication mileto populato.
Soil compaction/topsoil-subsoil mixing.	- avoidance of rutting by vehicles where possible.
Oon compaction/topacif-subsoit mixing.	- avoidance of rutting by venicles where possible construction timing.
	· · · · · · · · · · · · · · · · · · ·
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	- 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.

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