ENVIRONMENTAL IMPACT ASSESSMENT FOR **DISTRIBUTION ACTIVITIES**

Unique Identifier:

240-72597722

Revision:

1

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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 Signature: , =

Form completed by D. Scholtz

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

in consultation with: C. MGBETTI Signature:

↑ DATE COMPLETED:

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.

VALOYI TRE HOSI ! NWAMITWA 0871 0.80% 1

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Annex B (continued)

1 Proje	ct des	cript	ion
---------	--------	-------	-----

Project name/St	irvey Visco To - D C	Balaka	
Request	Xiverengi BE.	Area Bolobedy	
Project number	RUNNIMEDE ELECTRIFICATION	File number	
Rural scheme/	V'hana.		
Feeder	Xi hoko	Voltage 22kV	*****
Supply from	MBW (Various)	
(scheme name.	pole numbers for tee-off)		
Supply to	(Various)		
(Farm name, etc	2.)		
2 Properties	traversed		
Farm name	Runny mea	le & Nomgolala U28 CT Sub-division 0 ine length (m) U9 - 1.641	70000
Registration nun	nber and Division	428 CT Sub-division O	
Compilation nun	nber 7330 CB	ine length (m)	
Farm name		MV - 1 3.314	
Registration nun	nber and Division		

3 Brief description of the surrounding area

RUNNYM	REDE	VILLAGE	5/7	CUATED	ON	BITHER	51725	OF	44744
SMALL	TAR	ROAD	IN	N'WA	MITWA	. FLA	7 70	SLIGI	HTLY
		OPOGRAPH TALL GR							
5male	To	LA ROC STALLTY	TREE	S. Exc	STING				

Compilation number Line length/Site area (m²)

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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Annex (continue	and the same of th
4 Physical environment	
4.1 Water: streams rivers dams wetlands	springs floodplains OTHER
Present condition:	
Potential impact (e.g. threat of pollution):	
No	
4.2 Soil: rocky	clayey OTHER
Potential impact (e.g. of erosion)	
4.3 Topography mountains ridges (ills) valley	s ravines dongas OTHER
Present condition: FLAT To SLIGHTLY Potential impact (e.g. of erosion) No	
Potential impact (e.g. of erosion)/200	SAME THE STATE OF
Comments/mitigating measures:	
FLAT TO SLIGHTLY SLOPING	TOPOGRAPHICAL AREIS.

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Annex B (continued)
4 Physical environment
4.1 Water: streams rivers dams wetlands springs floodplains OTHER
Present condition:
Potential impact (e.g. threat of pollution):
No
4.2 Soil: rocky clayey OTHER
Present condition: SOFT TO HARD SAWOY SOIL.
Potential impact (e.g. of erosion)
4.3 Topography mountains ridges fills valleys ravines dongas OTHER
Present condition: FLAT TO SLIGHTLY SLOPING
Potential impact (e.g. of erosion)
Comments/mitigating measures:
FLAT TO SLIGHTLY SLOPING TOPOGRAPHICAL AREAS.

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Potential impact e.g. th	reat of encroachn	Annex B (continued)	lo	
6.2 Visual aesthetics	: easily seen	hidden		partially
Brief description On	I BITHER	SIDE OF	Smore Tr	TR ROAD
Potential impact	No			
6.3 Natural heritage:		archaeological	monuments	palaeontological
	significance	objects meteorites	ruins	objects OTHER
	f 1999 be identifie	ed, the requirements	of Act 25 of 1999	ned in the National Heritage shall be followed by notifying notified.
Comments/mitigating n	neasures			
7 Economic envir	ronment			
7.1 Land use: Cr	rops	orchards	grazing	crop spraying
	ame farming	forestry areas	mining	OTHER
Brief description	NALL CREA	25 IN 574	WOS:	

Document Classification: Controlled Disclosure ENVIRONMENTAL IMPACT ASSESSMENT FOR Unique Identifier: 240-72597722 DISTRIBUTION ACTIVITIES Revision: Page: 22 of 70 Annex B (continued) Potential impact e.g. threat of encroachment, etc. 6.2 Visual aesthetics: easily seen hidden partially..... N EITHER SIDE OF SMALL TAR ROAD Potential impact 6.3 Natural heritage: cultural archaeological palaeontological monuments significance objects objects graves meteorites OTHER..... ruins Note: Should any natural heritage resource as listed above, or as defined in the National Heritage Resource Act, No 25 of 1999 be identified, the requirements of Act 25 of 1999 shall be followed by notifying the SAHRA. If line or access road length exceeds 300m SAHRA shall be notified. Potential impact ... ments/mitigating measures 7 Economic environment 7.1 Land use: orchards grazing crop spraying

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forestry areas

TALL CREPS IN STAMOS.

mining

OTHER

game farming

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		Annex B (continued)	
	t will this project have on elements rsical	32 5	
No impact (0	Medium impact (2)	High impact (4)	
2. Nati	ural		
No impact (0	Médium impact (2)	High impact (4)	
3. Soc	ial		
No impact (0	Medium impact (2)	High impact (4)	
Overall impa This section above three	addresses the overall environme spheres (physical, natural and soc	cial) need to be considered to det	impacts as assessed in the termine the overall impact
	No impact Medium im	pact High impact	
If the overa	all impact is between 2 and 4 tal Senior Superintendent.	, contact the Environmental M	Management Officer or the
Alternatives	>		
Have alterna	ative routes been discussed with th	e relevant land owner/s or users	?
Yes			
No			
Detailed stu	idy		
Is an enviror	nmental assessment required in ter	ms of Regulation R543?	
Yes	,/		
No	V		
Should a per	mit application be made to DWA?		
Yes			
Should the S	AHRA be notified?		
Yes			
No			

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Annex B

			entinued)	
What	impact will this	s project have on elements 4 to	7?	
	3	AS STATE OF THE PROPERTY AND ADDRESS.		
No in	pact (0)	Medium impact (2)	High impact (4)	
2.	Natural			
No in	pact (0)	Médium impact (2)	High impact (4)	
3.	Social			
No in	pact (0)	Medium impact (2)	High impact (4)	
	all impact:			
This above	section addres	ses the overall environmental	impact of the project. The impacts as assessed need to be considered to determine the overall imp	d in the
		2	4	Jact
	Noin	pact Medium impact	High impact	
Yes No		tes been discussed with the rel	evantiland owner/s or users?	
Detai	led study			
Is an	environmental	assessment required in terms of	f Regulation R543?	
Yes		-		
No	V	* 5		
Shoul	d a permit app	lication be made to DWA?		
Yes No				
Shoul	d the SAHRA b	pe notified?		
Yes No				

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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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	 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. scheduling to avoid peak use periods.
WATER QUALITY	
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.
Impedance of natural flow streams/others surface waters.	 use and maintenance of appropriate stream crossing device.
Ponding or channelization of surface waters due to rutting.	 timing activities to stable ground conditions. use of gravel roads.
Contamination of surface or ground waters through spills or leaks of toxic substances.	 spill control material and procedures readily available. site selection where possible.
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.

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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.
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Tourism and recreation resources	 design measures to make facility less obtrusive of
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	- minimise noise and dust.
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WATER QUALITY	
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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.
PREMISSION SET TO STREET STREET	- Mechanical erosion control.
Impedance of natural flow streams/others surface waters.	 use and maintenance of appropriate stream crossing 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 sciection where possible.
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.
	avoid trottoring parallel to the fall of a slope.