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	bv	
Environmental Practition		
Environmental Speciali	st	
Head of Engineering S		
(one signature please)		
Accepted by Land Own	er/s/Users	
I have seen the comple	ted documen	t and accept the
recommendations mad	е	7
	11	Assessor/s
Form completed by	/ LAIN	Signature:
in consultation with	HERBET	Signature: X Managara,
CAPACITY (e.g. land or	wner, speciali	st): Commiccoe.
DATE COMPLETED:	29/0	7/2015

Instructions

- 1. 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.
- 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)

Project name/So Request Project number Rural scheme/ Feeder Supply from	Bampoen Village Valious	Area CCIroling File number Voltage
(scheme name, p Supply to (Farm name, etc	oole numbers for tee-off) VINOU	
2 Properties	traversed	
Farm name	Varous	
ouripliation name	Jei n. m. Line	Sub-divisionlength (m)
togiotiation num	del and Division	Sub-division length/Site area (m²)
	ption of the surrounding ar	rea

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.

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Annex B (continued)

4 Physical	environment	(continu	ea)	
4.1 Water: Present condition	streams rivers	wettarids	springs	floodplains OTHER
Potential impact				

	***************************************		****************	***************************************
4.2 Soil:	sandy	rocky	clayey	OTHER
Present condition	n:			······································
Potential impact 4.3 Topography	(e.g. of erosion)	ridges hills valleys	******************	dongas OTHER
Present condition	li awaa			
Potential impact (The second second		
Comments/mitiga				
		*****************************	*****************	
		*************************		000000000000000000000000000000000000000

34997901111111111111111111111111111111111		***************************************		

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Annex B (continued)

5 Natural	l environmer		(continued)		
	indigen		protected	exotic	OTHER
Potential imp	tion and consert (100) act (e.g. permit	vation status (e.g. rare, etc., mer	ntion trees/bush	/grass)
5.2 Fauna:	A. 12. 12. 12. 12. 12. 1	mmals	birds		OTHER
1 All	on and conserva	tion giraffe, e	lephants, eagles, v	rultures, etc., m	ention migratory paths)
Potential impac	ct (e.g. threat of	electrocution,	collision, etc)	***************************************	***************************************
Comments/mitig		******************	Fra Consessors (************************************	*********************	
					measure
Social env	ironment	**************************************			
1 Restricted	nature/game reserves	hiking trails	tourism route	es parks	s recreational
esidential- eas	green belts	sacred/holy grounds	OTHER	tions of the same	areas
ef description	*****************	*********	******************************	***********	

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Potential impact e.g. tl	hreat of encroach	Annex E (continued)		
6.2 Visual aesthetics		hidden		partially
Brief description		******************************		
Potential impact	*******************			
6.3 Natural heritage:	cultural significance	archaeological objects	monuments	palaeontological objects
	graves	meteorites	ruins	OTHER
Note: Should any na Resource Act, No 25 of the SAHRA. If line or a Potential impact	A Coess road leng	gth exceeds 300m S	SAHRA shall be	ned in the National Heritage shall be followed by notifying notified.
Comments/mitigating me	easures			***************************************

7 Economic enviro	onment	(*************************************		***************************************
7.1 Land use : crop	ps ne farming	orchards forestry areas	grazing mining	crop spraying
Brief description	\ \\			

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Annex B (continued)

Potential impact	The same and a same				
7.1.1 Commercial:	factories	***************************************	***************************************	***************************************	***************************************
			shops	OTHER	
Brief description Potential impact	***************				
Potential impact		**************			****************
740	300000000000000000000000000000000000000	***************************************	***************************************		
7.1.2 Infrastructure:	roads pipelines	railways sewage	communications OTHER	power lines	air fields
Brief description:	verlings	*****************	***	******	
Potential impact	A				
Potential impact		****************	***************************************		***************************************
Comments/mitigating me	9361170 -				537752886
***************************************	easures:	HOLETT Zerrann			
					Transactions.
		**************************************			***********
		5000000000000000			

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		Annex B (continued)	
What impact will this pro 1. Physical	pject have on elements 4	to 7?	
No impagt (0) 2. Natural	Medium impact (2)	High impact (4)	
No impact (0) 3 Social	Medium impact (2)	High impact (4)	
Overall impact:	Medium impact (2)	High impact (4)	
0	2	I impact of the project. The need to be considered to c	ne impacts as assessed in the determine the overall impact
No impact	Medium impac		-
	between 2 and 4, coperintendent.		Management Officer or the
Alternatives			
Have alternative routes be	een discussed with the re	levant land owner/s or use	rs?
Yes No			
Detailed study			
Is an environmental asses	sment required in terms (of Regulation R543?	
Yes No			
Should a permit application	n be made to DWA?		
Yes No			
Should the SAHRA be notif	fied?		
Yes No	ne exceeds	(300 m	

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Annex C - Environmental Management Plan

(Normative)

1 General conditions

- The Eskom project manager or co-ordinator shall be responsible for ensuring that the land owners 1.1 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.
- Use of private roads shall be arranged in advance. Any damage to private roads shall be repaired 1.3 at the contractor's expense and to the satisfaction of the landowner. responsibility of the project manager or co-ordinator. This shall be the
- Gates shall be left as they are found, i.e. closed gates shall be kept closed and open gates shall 1.4 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 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 1.7
- If activities that can cause a fire are carried out, fire extinguishers shall be available on site and in 1.8
- No property may be accessed after normal working hours except with the permission of the 1.9
- Eskom, Eskom's contractors and their employees shall at all times be courteous towards landowners, tenants and the local community.
- Eskom, Eskom's contractors and their employees shall not cause damage to property, crops or 1.10 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 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.
- 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
 - 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.
- 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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Annex C (continued)

2 Special conditions

(Specific issues identified during the scopin protected trees. etc.).	g as needing attention i.e. erosion berms, bird flappers,
	паррого,
	77774454444444444444444444444444444444
Total Control of the	
11.01411111	***************************************

	F-11 F-10 F-10 F-10 F-10 F-10 F-10 F-10

TYPICAL MITIGATION MEASURES

MITIGATION AND A COURT
MITIGATION MEASURES
of access and size of tower site. of crop areas. ompensation for crop loss. uction to avoid growing season.
activities to times of the year when soils sceptible to compaction. It is when ground conditions are poor, ment with low bearing capacity, bring.
s roads along existing traffic routs
ctivities. when ground conditions are poor. ment with low bearing capacity. roads. anures to offset fertility loss. n for reduced soil pEAuctivity. poil and/or bentonite from foundation of topsoil and subsoil.
act with landowner/tenant regarding
control measures near sensitive of farm gates, gates, struction materials which could be of for lost, injured livestock. dry soils, ol of dust, to remove mud.
dry

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Annex C (continued)

	(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
Inconvenience	select route and method of installation to suit landowners' conditions.
Heritage resources	 select timing of activity. 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.
WATER QUALITY	 scheduling to avoid peak use periods.
Sedimentation of streams due to	- minimise use of slopes ediseaset
erosion from the right-of way. Stream bank erosion.	testing, construction and maintenance, maintain a cover crop, retain buffers, mechanical erosion control
mpedance of natural flow	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 streams/others surface waters. Ponding or channelization of surface	 use and maintenance of appropriate stream crossing device.
valers due to rutting	 timing activities to stable ground conditions. use of gravel roads.
Contamination of surface or ground vaters through spills or leaks of toxic ubstances.	 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. 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.