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

Form completed by

Assessor/s

Signature:

in consultation with MAOSi TOS, A.M. Signature

CAPACITY (e.g. land owner, specialist)

Instructions

- 1 Fill the report in as neatly and completely as possible
- Where the question / statement is not applicable mark N/A.
- 3. 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.

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1 Project description	(Continued)
Project name/Survey Request Project number Rural scheme/ Feeder Supply from (scheme name, pole numbers for tee-off) Supply to (Farm name, etc.)	Area Seiskes Langues File number Voltage 72/1/2
Registration number and Division Compilation number	Sub-division Line length (m) Sub-division Sub-division Line length/Site area (m²)
	ig area
Could the proposed project have an impact or aspects?	n or be constrained by any of the following environmental
Encircle the appropriate assess	ription of the present state as well as an indication of the measures for these impacts are to be included in the

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4 Physical e	nvironment	(contin	ued)		
4.1 Water: s	atreams rivers	dams wetlands		Iplains OTHER	
Potential impact					
4.2 Soil:	sandy	rocky	clayey	OTHER	
Present condition	14	Fresson;	(1)		_
Potential impact (e. 4.3 Topography	- gr or orosion)				
Present condition:	3200	FERT			
Potential impact (e	.g of erosion)				
Comments/mitigating	ng measures:	***************************************			
Particular and the Manager					

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			(oontariaca)				
5 Natural er	vironment						
5.1 Flora	indigenous	protec	oted	exotic	ОТ	HER	
Drief descripti							
Brief description	and conservati	on status (e.g. ra	are, etc., men	tion trees/b	ush/grass)	-1	
Potential impact	(e.g. permit app	olications		***************************************			
	Theorem and the same of	*************************			STATE AND A STATE OF THE STATE	.00097911011011011010101	
5.2 Fauna:	mamr		birds			***************************************	
Brief description	and conservation	on status					
(e.g. rare, protect	oted, etc., mentio	on giraffe, elepha	ants, eagles,	vultures, etc	c., mention m	nigratory paths)	
oronial management	7.17 T.F. I. C. S.	***************************************					
Potential impact	(e.g. threat of el	ectrocution, colli	sion, etc)	***********	*****************		
	1/10			***************************************	***************************************	**********************	
Commonto/esition				- Contract of the Contract of		************************	
Comments/mitiga	-					meas	sures
		CONTRACTOR OF CONTRACTOR				**************************************	
				in the second	orderson virtuality in a		Otropies
6 Social envi	ronment						
6.1 Restricted	nature/game reserves	hiking trails	tourism ro	utes	parks	recreational	
Residential areas	green belts	sacred/holy grounds	OTHER .			areas	
Brief description	Land	the					
	A						

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Potential impact e	g, threat of encroad	Annex 5 (continued)	nón	
6.2 Visual aesthe		hidden	**************************************	partially
Brief description	Za,	Rismengo	12	Persi.
Potential impact				
6.3 Natural heritag	CONTRACTOR OF THE SAME	archaeological objects	monuments	palaeontological
	graves	meteorites	ruins	objects OTHER
he SAHRA. If line of	or access road len	ngth exceeds 300m S	AHRA shall be r	
Comments/mitigating	measures	ô		TATALON ASSESSMENT OF THE PROPERTY OF THE PROP
Economic env	ironment		***************************************	744-14-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4
	crops game farming	orchards forestry areas	grazing	crop spraying OTHER
rief description	X135153	Duch for	?mn16-	
		**************************************		******

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			,		
Potential impact	***************************************	· · · · · · · · · · · · · · · · · · ·		***************************************	
7.1.1 Commercial:	factories		shops		

7.1.2 Infrastructure: Brief description:	roads pipelines	railways sewage	communications OTHER	power lines	air fields
Green and the second se					
Potential impact	1/10				
Comments/mitigating r	neasures:				
					5) (C. C. C

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			Annex B	
Wha	at impact will this p Physical	project have on elements 4	to 7?	
	rifysical			
	mpaq (0)	Medium impact (2)	High impact (4)	
2,	Natural			
No ir	mpac((0))	Medium impact (2)	High impact (4)	
3_	Social			
No ir	npact (0)	Medium impact (2)	High impact (4)	
Over This	all impact:	ATTAIN TO THE PARTY OF THE PART		
abov	e three spheres (p	s the overall environmental hysical, natural and social)	impact of the project. The impacts as a need to be considered to determine the or	assessed in the
			4	verali impact
	No impa	ct Medium impac	High impact	
lf the Envir	e overall impact onmental Senior S	is between 2 and 4, co	ontact the Environmental Management	Officer or the
	natives	, , , , , , , , , , , , , , , , , , , ,		
Have	alternative routes	been discussed with the re	evant land owner/s or users?	
Yes			ovaritional owners or users?	
No				
Detail	ed study			
Is an e	environmental ass	essment required in terms o	of Regulation R543?	
Yes				
No				
Should	d a permit applicati	ion be made to DWA?		
Yes	U			
Should	the SAHRA be no	ptified?		
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.
- No fires shall be lit on private property. If fires are lit on Eskom's property or in the construction 1.6 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 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 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 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.
- 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.
- 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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Annex C (continued)

2 Special	conditions
-----------	------------

(Specific issues identified during the scopin protected trees etc.).	g as needing	attention i.e.	erosion	berms,	bird f	lappers.
The Control of the Co						
		Control of the Contro	3-111-1-1-02			
	In the later was a second part and					
					ANOVE:	
	0.227					.5
Herent the control of			STORES HARMOND			
	M-11-11-11-11-11-11-11-11-11-11-11-11-11	# * * * * * * * * * * * * * * * * * * *				
			T-1100000000000000000000000000000000000	**********		

TYPICAL MITIGATION MEASURES

ENVIRONMENTAL CONCERNS	MITICATION BETACHT				
AGRICULTURE	MITIGATION MEASURES				
Loss of standing crop due to access road and tower work site. Soil Compaction	limit width of access and size of tower site, avoidance of crop areas, monetary compensation for crop loss time construction to avoid growing season.				
Construction of new lines	 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. 				
	locate access roads along existing traffic routs.				
Topsoil – subsoil mixing/soil rutting Disturbance to farm operations	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				
	maintain contact with landowner/toppers				
OCIAL IMPACTS	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. wetting down dry soils.				
	cleaning roads to remove mud temporary planting of grasses.				

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Aesthetics	(continued)
	screen with natural of planted vegetation restoration.
	void linear access down the right-of-way
	addition of topsoil to gravel access roads
	Toarding Construction sites
	- installation of landscaping in advance of site
Inconvenience	completion
riconvenience	- select route and method of installation to suit
	andowners 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 englacement
	protection by use of enclosures, barrier fencing, covering.
	Sarvage 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	
erosion from the sixty of	minimise use of slopes adjacent to streams during soils
erosion from the right-of way	tosting constituction and maintenance
	maintain a cover crop.
Ctroops by J	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	- Use and maintenance of annual in
streams/others surface waters	use and maintenance of appropriate stream crossing device.
Ponding or channelization of surface	
waters due to rutting	and the stable of Other Conditions
	use of gravel roads
Contamination of surface or ground	spill control material and procedures readily available.
vaters through spills or leaks of toxic substances.	site selection where possible
Soil come - 1' /	- F = 440,810
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
P D	stop activities when ground conditions are poor.
Vind/water erosion	- avoidance of areas with high erosion potential
	timing activities to the most stable
	timing activities to the most stable ground conditions.
	- mechanical orgains control
	modifical elosion control
	regeration erosion control
	 recompaction of trenches. avoid trenching parallel to the fall of a slope.
	avoid trenching possillal to use a

