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 acce

recommendations made

Form completed by

Signature:

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

Assessor/s

in consultation with SJMaHa (49) (Signature:

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.

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Annex 8 (continued)
1 Project description
Project name/Survey Request Request Project number Project number Rural scheme/ Feeder Supply from (scheme name, pole numbers for tee-off) Supply to (Farm name, etc.)
Farm name IG BK PICALS Registration number and Division Sub-division Compilation number 2000 Line length (m) 300 33 M Farm name Registration number and Division Sub-division Compilation number and Division Sub-division Compilation number Line length/Site area (m²)
Prief description of the surrounding area I've propered mu (ine will closs a Livel i Treic is a like to be himned
Could the proposed project have an impact on or be constrained by any of the following environmental spects? Incircle the appropriate aspect, giving a description of the present state as well as an indication of the ossible negative impact. Note that mitigating measures for these impacts are to be included in the invironmental Management Programme.

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Annox B (continued)		
4 Physical environment		
4.1 Water: streams rivers dams wetlands springs		HER
Present condition: The 15 Cross II	<u>ကဌ ရ က်ပ</u>	<u> </u>
Potential impact (e.g. threat of pollution):		
طرع Soil: (sandy) (rocký) claye	y OTHE	R
C mali 11	it's voct	55
Present condition: Soil IS Scindy W	9)	
Potential impact (e.g. of erosion)	dongas OTH	ER .hll.A -
Present condition: NIA		
Potential impact (e.g. of erosion)		
Comments/mitigating measures:		
LXV.		

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Annex B (continued)

5 Natural env	ironment				R Unkrewn
5.1 Flora:	indigenous	protected	exotic	OTHE	R Chiliprecon
Potential impact (e.g. permit appli	cationsX.I.A.	etc., mention trees/bus		
5.2 Fauna:	mamma		birds	OTHER	
Potential impact (ed, etc., mention	giraffe, elephants	s, eagles, vultures, etc. Anomal S on, etc)		
Comments/miliga		1.A.			measures:
and the second				7500 (to # 2006)	anol .
6.1 Restricted areas:	nature/game reserves	hiking trails	tourism routes	parks	recreational areas
Residential- areas	green belts	sacred/holy grounds	OTHER		
		M	(1)		
Brief description			Valarania		



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Potential impact e.g. ti	nreat of encroachm	Armex E (continued) ent, etc.		
6.2 Visual aesthetics	easily seen	hidden	р	artially
Brief description				
Potential impact	N I	F)	<i>i</i>	
6.3 Macural heritage	cultural	archaeological objects	monuments	palaeontological objects
	graves	meteorites	ruins	OTHER
Mote: Should any Resource Act, No 25 the SAHRA. If line of Potential impact	r access road leng	gth exceeds 300m	SAMRA shall be n	ed in the National Heritage shall be followed by notifying offfied.
Comments/mitigating	measures	MIA		
7 Economic env	ironment			
111 140.10	crops game farming	orchards forestry areas	grazing mining	crop spraying OTHER M. I. D.
Brief description	HIA			
			2	





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Annex E (continued)

Potential impact	AIN	······			
7.1.1 Commercial:	factories	sh	ops	OTHER	HIB
Brief description Potential impact	AIN N	n			
7.4.2 Infrastructure:	roads	railways	communications	power lines	air fields
Brief description:	pipelines	sewage Ng LÝN N NGSIC	OTHER	LIVE	vese .
Potential impact	C4111				
Comments/mitigating		MIA			

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		mex B ntinued)		
	project have on elements 4 to			
Physical No impact (0)	Medium impact (2)	High im	npact (4)	
2. Natural				
Mo impact (0)	Medium impact (2)	High in	npact (4)	
3. Social		250.0.0.0	-+ (A)	
(No impact (0)	Medium impact (2)		npact (4)	
Overall impact: This section address above three spheres	es the overall environmental (physical, natural and social)	Hood to Bar	4	s as assessed in the the overall impact
No imp	pact Medium impact	t Hiç	gh impact	
If the overall impact Environmental Senior	ot is between 2 and 4, co r Superintendent.	ontact the E	nvironmental Manage	ment Officer of the
Have alternative rout	es been discussed with the re	elevant land o	wner/s or users?	
Yes <				
No				
Detailed study				
	assessment required in terms	of Regulatio	n R543?	
YesY				
Should a permit app	lication be made to DWA?			
Yes	• · · · ·			
Should the SAHRA I	oe notified?			
Yes X	-			

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Annex G - Environmental Wanagement Etan (Normative)

4 General conditions

- 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.
- 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.
- 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 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.
- 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.
- 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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Aringx C (continued)

- 1.13 If any vehicle should get stuck, the damage shall be repaired immediately so that no deep ruts remain.
- 4.14 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.

- *i.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.
- 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)

						(cor	ntinued)						
2 Spec	cial cor	nditions											
(Specific protected	issues I trees, e	identified etc.).	during	the	scoping	as	needing	attention	i.e.	erosion	berms,	bird	flappers,
												•••••	
			•••••			•••••			······	•••••	· · · · · · · · · · · · · · · · · · ·		
•••••	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •								•••••			

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 solls 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	- 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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Annex C (continued)

	(continued)
Aesthetics	
	- screen with natural of planted vegetation restoration.
1	avoid linear access down the right-of-way
	- audition of topsoil to gravel access roads
	- Hoarding construction sites
	- installation of landscaping in advance of site
Inconvenience	Completion.
	 select route and method of installation to suit
1	landowners' conditions.
Heritage resources	 select timing of activity.
. Torridge resources	- avoidance/isolation.
	- design measures to make facility less obtrusive.
	- screening.
	 alternate methods of equipment.
1	- protection by use of enclosures, barrier fencing
	l covering.
	- salvage in conjunction with SAHRA.
Tourism and recreation resources	- relocation in conjunction with SAHRA
rounant 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
WATER QUALITY	- scheduling to avoid peak use periods.
Codimentally	
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.
Characterist	- 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	- use and maintenance of appropriate stream crossing
streams/others surface waters.	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.	- site selection where possible.
Soil compaction/topsoil-subsoil mixing.	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
een eempaction/topsoil-subsoil mixing.	- avoidance of rutting by vehicles where possible.
	Construction timing.
	- use of gravel roads.
	- use of vehicles with low bearing pressures.
Wind/water erosion.	- stop activities when ground conditions are poor
vino/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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