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Annex B - Distribution Environmental Screening Document (DESD) (Informative)

Reticulation Powerlines and Ancillary Services

CAPACITY (e.g. land owner, special	Assessor/s IMEAISignature: BLAZASignature: MaxuS / 11157724 st): \Lead man
DATE COMPLETED:!?	

Instructions

- 1. Fill the report in as neatly and completely as possible.
- 2. Where the question i 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.

MATHON PILTER

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Annex B (continued)

1 Project description
Project name/Survey Request Project number Project number Rural scheme/ Feeder Supply from (scheme name, pole numbers for tee-off) Supply to (Farm name, etc.)
2 Properties traversed
Registration number and Division
3 Brief description of the surrounding area
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
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	В
(continue	

4 Physical environment
4.1 Water: streams rivers dams wetlands springs floodplains OTHER
Present condition: JOIL COVERED.
Potential Impact (e.g. threat of pollution):
4.2 Soll: sandy rocky clayey OTHER
Present condition: SOIL COVERED WITH CIRAL (Potential impact (e.g. of erosion) NO IMPACT. 4.3 Topography mountains ridges (hills) valleys ravines dongas OTHER.
Present condition: IT ALLO CIDES UP THE HILL.
Comments/mitigating measures:

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			nnex B continued)				
5 Natural env	dronment				0.71	IER NA,	
5.1 Flora:	indigenous	protecte	eđ (exotic	OIF	IEK	
Brief description	and conservation	n status (e.g. rar	e, etc., mentio	n trees/bu	sh/grass)		
Polential impact (e.g. pennic appi		*******************	***************************************		N/A.	
5.2 Fauna:	mamm	als	birds		OTHER.	((.15). 🔻	
Brief description of (e.g. rare, protect Potential impact (ed, etc., mention	n giraffe, elephar		11001616170-1411		***************	
Comments/mitiga	ung		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	***************************************	**********		
6 Social envi	onment		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	**************************************	**************************************		
6.1 Restricted	nature/game reserves	hiking trails	tourism rou	tès	parks	recreational areas	
Residential- areas	green belts	sacred/holy grounds	OTHER				
Brief description .	<u> </u>	٧١. ١٧	THE	RE	MARN	TIAL AREA	

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Document Classiff	cation: Controlled D)isclosure			
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Potential impact e.	g, threat of encroac	Annex (continued		Imp	ACT
6.2 Visual aesthe	tics easily seen	hidde	Λ	partially	***************************************
Brief description	In R	UNS	NEX 7	70 F	AAA .
4-13-13-13-13-13-13-13-13-13-13-13-13-13-	***************************************	***************************************	*****************	**************	****************
Potential Impact	No 7	meals	18+1441/14114114+14/44/44/44/44/44		
6.3 Natural heritag	ge: cultural	archaeological	monuments	palaeonto objects	ological
	significance graves	objects meteoriles	ruins	OTHER	N/A.
Note: Should any Resource Act, No 2: the SAHRA. If line	5 of 1999 be Identifi or access road ler	led, the requirement ngth exceeds 300m	s of ACL 25 of 1999 SAHRA shali be i	Shall be lost	lational Heritage owed by notifying
Potential impact	NO.	IMPAC	<u></u>	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
t ofertion impage and	*************	34-24	************	4754444555555	***********
Comments/mitigating	g measures				
***************************************	******************	***************************************	************************		***********
		***********************************	************************	*****************	£1314100H1117174
7 Economic en	vironment				
7.1 Land use:	ezopê	orchards	grazing	crop sp	raving
	crops game farming	forestry areas	mining	OTHER	REMAEINSTIAL
Brief description	I7 13	A F	ESIDEN	TIAL	AREA

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Annex B (continued)

Potential Impact	
7.1.1 Commercial: factories shops OTHER	
Brief description	
7.1.2 Infrastructure: roads reliways communications power lines air fields other communications power lines air fields	
Brief description: P.T. CROSSES AN ACCESS ROAD	. ,
Potential Impact No ImPALS	
Comments/miligating measures:	

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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 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 properly, crops or animals. Activities that may cause conflict with landowners, tehants, 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 servliude 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 yeld or on the line route.
- 1.16 Washing end 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 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.

2 Special conditions

protected trees. etc.).

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Annex C (continued)

(Specific issues identified during the scoping as needing attention i.e. erosion berms, bird flappers,

TYPICAL N	NITIGATION 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.
Soll 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 rouls.
Topsoil – subsoil mixing/soll 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 solls. chemical control of dust. cleaning roads to remove mud. temporary planting of grasses.

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Annex C (continued)

	(cosumosa)
Aesthetics	- screen with natural of planted vegetation restoration.
Acomotic	 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
HICOHVACHORICO	landowners' conditions.
	- select timing of activity.
Heritage resources	- avoidance/isolation.
Hetitaga teaduloda	 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
10thism and recreation resources	disruptive.
	- screening and restoration.
	- minimise noise and dust.
	- safely precautions to protect the public.
	- scheduling to avoid peak use periods.
WATER QUALITY	04/104/11/3
Sedimentation of streams due to	- minimise use of slopes adjacent to streams during solls
erosion from the right-of way.	testing, construction and maintenance.
Glosion nom are night or way.	- maintain a cover crop.
	- relain buffers.
Stream bank erosion.	- mechanical erosion control.
Otteath pany glosion	- 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	- timing activities to stable ground conditions.
	- use of gravel roads.
waters due to rutting.	
Contamination of surface or ground	- spill control material and procedures readily available.
waters through spills or leaks of toxic	- site selection where possible.
substances.	
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.
	was a numeral long of tropping
	 recompaction of trenches. avoid trenching parallel to the fall of a slope.

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