ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

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Roylston

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

Reticulation Powerlines and Ancillary Services

Rablica and accepted by Environmental Practitional 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

Well his whitemature:

* in consultation with: MANIERS. MARIASignature: Mine Julete

LCAPACITY (e.g. land owner, specialist): Accessoring Cleric

DATE COMPLETED: 23 /02/2021

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. 3.
- 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 miligate 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)

1 Project description
Project name/Survey Request Project number Project number Rural scheme/ Feeder Supply from (scheme name, pole numbers for fee-off) Supply to (Farm name, etc.)
2 Properties traversed Farm name Registration number and Division Compilation number Registration number and Division Farm name Registration number and Division Compilation number and Division Sub-division Compilation number
3 Brief description of the surrounding area
Fat, clay, St. ppeny bushy hot
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 B (continued)

4 Physical	environme	ent				
4.1 Water:	streams r					OTHER
Present condit	tion:	N/A	Ł			
Potential impa	act (e.g. threa	t of pollution):	N/A.			
4.2 Soil:	sandy		rocky	claye		OTHER
Present condi	itlon:S./.s.	ppeny	Clai	1 So.	,].	
Potential impa	act (e.g. of er	osion) ains ridge	s hills valle	≬∫(ys ravines	upal dongas	OTHER HAT
Present condi	ition: Veru	J. H.	at a	req.	in pa	Cł
Comments/m	itigating mea				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
		<i>N</i> ₁	o lu	1.DGC	d	
				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	*********************	,

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		(continue	ed)	
5 Natural en 5.1 Flora:	vironment indigenous	protected	exotic	OTHER
Brief description	and conservation s	status (e.g. rare, etc.,	mention trees/bus	n/grass)

Annex B

Brief description at	nd conservation	status (e.g. rare	e, etc., mendon trees/			
Potential impact (e	e.g. permit applic	ations PC	21W1 -	ejuire	ed.	
5.2 Fauna:	mamma	ils 1	birds	YOTHER		
Brief description a	ed, etc., mention	giraffe, elephar	nts, eagles, vultures, e	etc., mention n	nigratory paths)	
DOMES +	1 C Q	the ctrocution, collis	sion, etc)			
Comments/mitiga	iting				measui	res:
	No J	ormit	repulse	d		•••
6 Social envi			-			
6.1 Restricted areas:	nature/game reserves	hiking trails	tourism routes ${\cal Q}$	parks	recreational areas	
Residential- areas	green belts	sacred/holy grounds	OTHER BUL	shy.		
Brief description	Bu	shy-		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		

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Document Classification: Controlled Disclosure 240-72597722 ENVIRONMENTAL IMPACT ASSESSMENT FOR Unique Identifier: 1 DISTRIBUTION ACTIVITIES Revision: 22 of 70 Page: Annex B (continued) Potential impact e.g. threat of encroachment, etc. hidden 6.2 Visual aesthetics: Potential impact palaeontological monuments archaeological cultural 6.3 Natural heritage: objects objects significance OTHER..... ruins meteorites graves 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. Comments/mitigating measures 7 Economic environment crop spraying grazing orchards crops 7.1 Land use:

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forestry areas

game farming

mining

OTHER

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	J	Annex B (continued)			
Potential impact		111		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
7.1.1 Commercial:	factories	shops	OTHER .	enterfei ares Umput	Inmen.
Brief description	******************************			*****************	ake
	<i>l</i>	(up)	<u>i</u>		
	yoanis railwa pipelines sewag	ge OTHER		air flelds	
Brief description:	ed to-	to co	e(Con	OM.	
Potential impact		~ (u_	put		
Comments/mitigating n	neasures:				
		LΩ ()	pct		

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An	nex	E
,	44	- 12

		nnex B ontinued)
What impact will this 1. Physical	s project have on elements 4 to	7?
No impact (0)	Medium impact (2)	High impact (4)
2. Natural		
No impact (0)	Medium impact (2)	High impact (4)
3. Social No impact (0)	Medium impact (2)	High impact (4)
Overall impact: This section address above three sphere	sses the overall environmenta s (physical, natural and social) 2	I impact of the project. The impacts as assessed in the need to be considered to determine the overall impact 4
No.ir	Apact Medium impa	ct High Impact
If the overall imp Environmental Sen	act is between 2 and 4, clor Superintendent.	contact the Environmental Management Officer or the
Alternatives		
Have alternative ro	utes been discussed with the r	elevant land owner/s or users?
Yes	, 	
No	<u></u>	
Detailed study		
ls an environmenta	al assessment required in term	s of Regulation R543?
Yes		
Should a permit ap	oplication be made to DWA?	
Yes		
Should the SAHRA	A be notified?	
Yes		

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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.
- No fences, gates or locks shall be damaged to obtain access onto a line route. Arrangements 1,2 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. 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 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 and vehicles entering into adjacent camps or properties.
- Permission shall be obtained from landowners before any water is used. 1.5
- 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 in the veld.
- If activities that can cause a fire are carried out, fire extinguishers shall be available on site and in 1.7 the construction camp.
- No property may be accessed after normal working hours except with the permission of the 1.8 landowner. Privacy shall be respected at all times.
- Eskom, Eskom's contractors and their employees shall at all times be courteous towards 1.9 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 Eskom project manager or co-ordiator.
- Vehicles shall be driven at a moderate speed on private roads and stay within the statutory speed 1.11 limit on public roads.
- All movement of vehicles shall take place on the established Eskom servitude road or on private 1.12 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 rectlified 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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Annex C (continued)

Special conditions
ecific issues identified during the scoping as needing attention i.e. erosion berms, bird flappers, tected trees, etc.).
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 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 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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Aesthetics	 screen with natural of planted vegetation restoration.
, 10011, 1011	 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
Mootivoring	landowners' conditions.
	- select timing of activity.
Heritage resources	- avoidance/isolation.
Homeige resources	 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
Tourism and residential research	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	- minimise use of slopes adjacent to streams during soils
erosion from the right-of way.	testing, construction and maintenance.
elosion nom the right or may,	- maintain a cover crop.
	- retain buffers.
Stream bank erosion.	- mechanical erosion control.
Off Oction David Over 1997	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.
waters due to rutting.	- use of gravel roads.
Contamination of surface or ground	- spill control material and procedures readily available.
Contamination of surface of ground	site selection where possible.
waters through spills or leaks of toxic	- Site Scientifit Wildre possible.
substances.	- avoidance of rutting by vehicles where possible.
Soil compaction/topsoll-subsoil mixing.	- construction timing
	use of gravel roads.
	- use of year roads use of vehicles with low bearing pressures.
	stop activities when ground conditions are poor.
NAIL II. Annayarian	- avoidance of areas with high erosion potential.
Wind/water erosion.	timing activities to the most stable ground conditions.
	- slope stabilisation.
	- mechanical erosion control.
	- vegetation erosion control.
	- recompaction of trenches.
	at the self-representation to the fall of a clone
	- avoid trenching parallel to the fall of a slope.

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