# PROCEDURE FOR THE ENVIRONMENTAL ASSESSMENT OF RETICULATION AND SUB-TRANSMISSION PROJECTS: ANNEX Q OF THE CAPITAL INVESTMENT PROCEDURE SCSPVABP7 Page 1 of 10

#### Annex B

## Distribution Environmental Screening Document (DESD) Reticulation Powerlines and Ancillary Services

		and an anomaly convictor	
	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 ar recommendations made	INDUNA KEKANA INDUNA KEKANA	
>	Form completed by MRAMOKOLO in consultation with: M.F. KEKAN CAPACITY (e.g. land owner, specialist) Date: 30/09/2020		VILLAGE
	-		100

#### Instructions

- Fill the report in as neatly and completely as possible.
- 2. Where the question / statement is not applicable mark N/A.
- The form must be completed in consultation with someone who knows the area well and who can also predict if any future development is envisaged (e.g. a landowner, land user, specialist, etc.).
- Indicate sensitive areas on a map and/or spanning plans.
- 5. 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 R1183, published in terms of the Environment Conservation Act No. 73 of 1989.
- Identify and mitigate the negative impact of Eskom's activities to a minimum in line with both Legislation and Eskom's Environmental Policies.
- 3. 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.

Stamp



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### Annex B (continued)

#### 1 Project description

Project name/Survey	
Request WP HIRI SC	DREHOLEAREN ZEBIDIELA
Project number Rafixi R	OREHOLE SILE
Rural scheme/	OREHOLE File number
Feeder DYOOSTE	2.3
Supply from 4D1511391	Voltage
(scheme name, pole numbers for tee-off)	
Supply to VOLOP	164 Ks
(Farm name, etc.)	104 10
( and reality, etc.)	
2 Properties traversed	
Farm name	DLOP
Registration number and Division	7 7 77
Compilation number 3 429 A	Sub-division KS
Farm name	D. Line length (m)
Compilation number and Division	Sub-division
Compilation number	Line length/Site area (m²)
Brief description of the surrour VOLOP 15 9 FU	and indigenous trees
spects?	ct on or be constrained by any of the following environmental
ncircle the appropriate aspect sixing	description of the present state as well as an indication of the

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4 Physical environment	
4.1 Water: streams rivers dams wetlands springs floodplains OTHER	
Potential impact (e.g. threat of pollution):	
$\Omega/\rho$ .	
4.2 Soil: sandy rocky clayey OTHER	
Present condition: Charactesed by Sandy 5011.	
Potential impact (e.g. of erosion) NA	
3.3 Topography mountains ridges hills valleys ravines dongas OTHER パタッ	
otential impact (e.g. of erosion)	
otential impact (e.g. of erosion)	
omments/mitigating measures:	
P1/13	

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			(continued)		
5 Natural e	environment				
5.1 Flora:	indigenou	pro	tected exot	ic	OTHER
/1	on and conserva Lucus ct (e.g. permit ap		rare, etc., mention tre	ees/bush/grass	only
		plications	t/12		······
5.2 Fauna:		mals	birds	ОТН	ER
Brief descriptio	n and conservat	ion status			
(e.g. rare, prote	cted, etc., ment	on giraffe elen	hants, eagles, vulture	s, etc., mention	n migratory paths)
Potential impac	t (e.a. threat of a				
	· (o.g. tilleat of e	ectrocution, co	ollision, etc)		
	······	1/9/			
Comments/mitig	ating				
					measures
		NI		••••••	
		1 1		••••••	
				•••••	
6 Social env	ironment			••••••••••	••••••
6.1 Restricted	nature/game reserves	hiking trails	tourism routes	parks	recreational
Residential- reas	green belts	sacred/holy grounds	OTHER		areas
rief description	The	area	13 res,	dentra	2/.

Annex B

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

crop spraying

OTHER .....

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forestry areas

mining

game farming

Brief description

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		(continued)			
Potential impact	Н	/A ·			
7.1.1 Commercial:	factories	shops	отн	IER	
Brief description	Phore B	Shop's	aroun	d the	Vil Cou
7.1.2 Infrastructure:		lways communic		es air field	s
Brief description:	good p	ower lin	es and	pipe	lines
Potential impact	N/η,				
Comments/mitigating	measures:		4.		
<i></i>	у/д .				·····

Annex B

ENVIRONMENTAL IMPACT ASSESSMENT FOR Unique Identifier: DISTRIBUTION ACTIVITIES 240-72597722 Revision: Page: 24 of 70 Annex B (continued) What impact will this 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 addresses the overall environmental impact of the project. The impacts as assessed in the above three spheres (physical, natural and social) need to be considered to determine the overall impact 4 No impact Medium impact High impact If the overall impact is between 2 and 4, contact the Environmental Management Officer or the Environmental Senior Superintendent. **Alternatives** Have alternative routes been discussed with the relevant land owner/s or users? Yes No **Detailed study** Is an environmental assessment required in terms of Regulation R543? Yes No Should a permit application be made to DWA? No Should the SAHRA be notified?

Document Classification: Controlled Disclosure

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.
- 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 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.
- 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.
- 1.14 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 left on 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.
- 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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2 Special co	nditions
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(Specific issues identified protected trees. etc.).	during	the	scoping	as	needing	attention	i.e.	erosion	berms,	bird	flappers
No											

### TYPICAL MITIGATION MEASURES

ENVIRONMENTAL CONCERNS	MITIGATION MEASURES
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.
	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	<ul> <li>maintain contact with landowner/tenant regarding preferences.</li> </ul>
oss 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.
OCIAL IMPACTS	injured livestock.
	- wetting down dry soils chemical control of dust cleaning roads to remove mud temporary planting of grasses.

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<ul> <li>screen with natural of planted vegetation restoration.</li> <li>avoid linear access down the right-of-way.</li> <li>addition of topsoil to gravel access roads.</li> <li>hoarding construction sites.</li> <li>installation of landscaping in advance of site completion.</li> </ul>
select route and method of installation to suit landowners' conditions.
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.
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.
- scheduling to avoid peak use periods.
<ul> <li>minimise use of slopes adjacent to streams during soils testing, construction and maintenance.</li> <li>maintain a cover crop.</li> <li>retain buffers.</li> </ul>
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.
<ul> <li>use and maintenance of appropriate stream crossing device.</li> </ul>
- use of gravel roads.
<ul> <li>spill control material and procedures readily available.</li> <li>site selection where possible.</li> </ul>
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.