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

Assessor/s

Form completed by
Signature:
in consultation with:

M. J. THELESI Signature:

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

DATE COMPLETED: 03/06/2019

Instructions

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

HEADMAN M.J THELEDI SPRINGFIELD VILLAGE

0 3 JUN 2019

P.O. BOX 1679 UNDER CHIEF MALEBOHO 079 185 8339

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M-J. T.

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Annex B (continued)

1 Project description

노래부터 경기 마이 마이 이번 시간 사람들은 사람들이 되었다.
Project name/Survey
Request CARROLLIACI MCMICHAINY
Project name/Survey Request Project number MAD 474937004 File number
D I I I I I I I I I I I I I I I I I I I
Feeder ALPINE DAM 12 to
Supply from BETWEEN PA 5581 33 & LANGE CO 31
(scheme name, pole numbers for tee-off) Supply to STHNSFIELDS 2LS
(Farm name, etc.)
2 Properties traversed
Farm name SPRINSFIGUS Registration number and Division 268 LL Sub-division D Compilation number 3338 PB Line length (m) 481
Periotrotion aurale 2/6/12
Compiletion and Division
Registration number and Division
Compilation number Line length/Site area (m²)
and longuiroite area (III)
3 Brief description of the automatic
3 Brief description of the surrounding area
THE ADCA IS A 15-14 SIA
THE AREA IS A LESIDENTIAL MEGA IN A LEATIVEY FLAT TELLATIV WITH BOCKY SOIL 9 MOSCLATE
112 FLAT TOLLAN
WITH ROCKY SOIL 9 MOSCRATE
IES EMIJOU
Could the proposed project have an import on as he
Could the proposed project have an impact on or be constrained by any of the following environmenta 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.
Environmental Management Programme.

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4 Physica	I environment			
4.1 Water: Present condi	streams rivers	dams wetlands	- IIOO	plains OTHER THAT
The same of the sa				((0))
Potential impa	ct (e.g. threat of po	ollution):		
***************************************	*****************			
***************************************		ONE		***************************************
***************************************				***************************************
4.2 Soil:	sandy	rocky	clayey	OTHER NA

Potential impac 4.3 Topograph	t (e.g. of erosion) . ny mountains	ridges hills valleys	ravines dong	as OTHER HIM
resent conditio	on:	KEA 15 PL	CATILLY	FLAT
otential impact	(e.g. of erosion)	NOVE		
Comments/mitie	-41-			***************************************
·····	ating measures:			
	••••••••••			••••
	MH			*************
			••••••	

	***************************************	••••		

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Annex B

5 Natural e	nvironment		(oorianded)		
5.1 Flora:	indigenous	protec	cted exotic		THER MA
Brief description	n and conservati	on status (e.g. ra	are, etc., mention tree	es/bush/grass)	
Potential impac	t (e.g. permit ap	plications	E PELM	1T PEA	24 <i>KE</i> D
5.2 Fauna:	mamı	nals	birds	OTHE	R
Brief description	and conservation	on status.			
(e.g. rare, protection)	cted, etc., mention	on giraffe, elepha	ants, eagles, vultures SITE	etc., mention	migratory paths)
Potential impact	(e.g. threat of e	lectrocution, colli	sion, etc)		
Comments/mitig	ating				
					measures
6 Social env					
o o o o o o o o o o o o o o o o o o o	nomment				
6.1 Restricted areas:	nature/game reserves	hiking trails	tourism routes	parks	recreational
Residential- areas	green belts	sacred/holy grounds	OTHER MA		areas
Brief description	NO /	ESP4 CTES	AKESS	Affects	0

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Potential impact e.g.	threat of encroad	Annex (continued	4)	
.2 Visual aesthetic	easily seen	hidde	n	partiallyNA
rief description	THE UM	st 15 c	sabily g	Efr
otential impact	NOW	E		
3 Natural heritage	••••••	archaeological	monuments	palaeontological objects
	graves	meteorites	ruins	OTHER MA
SAHRA. If line or	access road le	resource as listed : fied, the requirement ngth exceeds 300m HEATASE	SAHRA shall b	efined in the National He 99 shall be followed by no e notified.
mments/mitigating	meacures			
	HONE			<u>,</u>
1 Land use: c	rops	orchards	grazing	crop spraving
g	ame farming	forestry areas	mining	crop spraying OTHER
ef description7	HE LAN	18 15 W	Ital for	<u>L</u>

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Annex B (continued)

Potential impact	Mone	••••••			••••••	
7.1.1 Commercial:	factories		shops		OTHER .	MA
Brief description Mo Potential impact	COMM	REL 4AT	S1168	Affecto	2 .	
7.1.2 Infrastructure: (roads pipelines	railways sewage	com	munications	oower lines	air fields
Brief description:A			om	HAS BE	BU Ch	OSJEA
Potential impact 56			18	OFICE		
Comments/mitigating r						
Ste dos Closyn	3123	prosii	£ ;	fol R	OA 1)	

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			nnex B ontinued)
What 1.	t impact will thi Physical	s project have on elements 4 to	7?
No in	npact(0)	Medium impact (2)	High impact (4)
2.	Natural		
No in	npact (0)	Medium impact(2)	High impact (4)
3.	Social		
No in	npact (0)	Medium impact(2)	High impact (4)
This above	() (2)	impact of the project. The impacts as assessed in the need to be considered to determine the overall impact
	No in	npact Medium impac	High impact
Alter	natives	or caperinterident.	intact the Environmental Management Officer or the
Alter	natives	act is between 2 and 4, co or Superintendent.	intact the Environmental Management Officer or the
Alter Have Yes No	natives	or caperinterident.	intact the Environmental Management Officer or the
Altern Have Yes No Detai	alternative rou	ites been discussed with the re	entact the Environmental Management Officer or the levant land owner/s or users?
Altern Have Yes No Detai	alternative rou	or caperinterident.	entact the Environmental Management Officer or the levant land owner/s or users?
Alter Have Yes No Detai	alternative rou	ites been discussed with the re	entact the Environmental Management Officer or the levant land owner/s or users?
Alteri Have Yes No Detai Is an	alternative rouselled study	ites been discussed with the re	entact the Environmental Management Officer or the levant land owner/s or users?
Alterion Have Yes No Detail Is an Yes No	alternative rouselled study	assessment required in terms	entact the Environmental Management Officer or the levant land owner/s or users?
Altern Have Yes No Detai ds an Yes No	alternative rouselled study	assessment required in terms	entact the Environmental Management Officer or the levant land owner/s or users?
Alterion Have Yes No Detail Is an Yes No Should Yes No	alternative rouselled study	assessment required in terms lication be made to DWA?	entact the Environmental Management Officer or the levant land owner/s or users?
Alteri Have Yes No Details and Yes No Shoul Yes	alternative rouseled study environmental	assessment required in terms lication be made to DWA?	entact the Environmental Management Officer or the levant land owner/s or users?
Altern Have Yes No Details and Yes No Shoul	alternative rouseled study environmental	assessment required in terms lication be made to DWA?	entact the Environmental Management Officer or the levant land owner/s or users?

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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.
- 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 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.
- 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 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)

2 5	pecial	conditions
-----	--------	------------

(Specific issues identified during the protected trees. etc.).	scoping as needing attentio	n i.e. erosion berms, bird flappers,
The PERMIT	LEQUICED	

TYPICAL MITIGATION MEASURES

ENVIRONMENTAL CONCERNS	MITIGATION MEASURES
AGRICULTURE	MITIOATION MEASURES
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.
SOCIAL IMPACTS	 Compensation for lost, injured livestock.
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)

Aesthetics	 screen with natural of planted vegetation restoration. 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 landowners' 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 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 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 erosion from the right-of way.	 minimise use of slopes adjacent to streams during soils testing, construction and maintenance. maintain a cover crop. 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 streams/others surface waters.	use and maintenance of appropriate stream crossing 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.	 spill control material and procedures readily available. site selection where possible.
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. recompaction of trenches. avoid trenching parallel to the fall of a slope.

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