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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

of the

Assessor/s

Form completed by MARTUMELA Signature

in consultation with Mittaliella GR. Signature

CAPACITY (e.g. land owner, specialist); SECRETORY

DATE COMPLETED: 2015/10/29

MAGOMANI ROYAL COUNCIL P.O. BOX 692 SASELAMANI 0928

HEADMAN
SIGNATURE: Allocale k

DATE: 20/5/10/29

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 B (continued)

1 Project description

Project name/Su	
Request	Salom of Misharah Area DA ASOMAH
Project number	THT 15 4844391 File number
Rural scheme/	
Feeder	PHAMENI Voltage ZZKN
Supply from	MPH 341 MM1 249/93
(scheme name, p	pole numbers for tee-off)
Supply to	SOLOMOH MISHACAHI MASHAMBA.
(Farm name, etc.	
2 Properties	traversed
Farm name	Bhikundu
Registration numb	ber and Division 260 MT Sub-division — Der 230 DD Line length (m) 0.44064Em -
Compilation numb	2230 AD Line terret (2) 0:44 064 km;
arm name	Line length (m) 9 -3(90 T 1
Registration numb	per and Division
Compilation numb	perLine length/Site area (m²)
	Line lengthy site area (m)
Rrief descri	ption of the surrounding area
THE S	ARRA U FLAT WITH
CIANG	THE FRAME SURPLE OF THE
(OH = 1	OIL THAT FORMS SUPPERY PROPERIES
······································	USET.
ould the propose spects?	of project have an impact on or be constrained by any of the following environment
ncircle the approx	priate aspect giving a description of the present state or
reside Hegatire I	priate aspect, giving a description of the present state as well as an indication of the manual model and indication of the manual manual area are to be included in the manual programme.

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Potential impac	ct (e.g. threat of	pollution):	1 mpazī	s
l.2 Soil:	sandy	rocky	(aye)	OTHER
		ridges hills valle	ACT	gas OTHER
and the second	72	ACCENT IC	E -	
*******************************		AREA U	•	

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	indigenous	crotec	ed exotic	C	THER
Brief description	and conservation	on status (e.g. ra	are, etc., mention trees	s/bush/grass)	ISHIDWAO
Ann mi	LT WA FO	TOC IT	EN 140		
Potential impact	(e.g. permit app	lications PE	MIT APPLI SWALO TREE	CATION !	5 FOURD
MOT T	EqUICE	D (2) 15HI	ISWALO TREE	= TO BE	CUT AND
5.2 Fauna:	76 BC /	nals	birds	OTHE	R
		3533)	0000000		
Brief description	and conservation	on status:			
e.g. rare, protec	cted, etc., mentic	on giraffe, elepha	ants, eagles, vultures,	etc., mention	migratory paths)
			ECH SPOT		
SUPIC					
Potential impact	(e.g. threat of el	ectrocution, colli	sion, etc)	MARKE	Ţ
	0.000.000.000.000				***************************************
			•		······································
Comments/mitig	atino				measures
	atino	ONE			
	atino				
	atino				
	atino				
	ating H				
Comments/mitig	ating H				
Comments/mitig	ating H		tourism routes	parks	
Comments/mitig	ating P	ONE			measures
Comments/mitig	ironment nature/game reserves	hiking trails			measures
Comments/mitig	ating H	ONE			measures
Comments/mitig	ironment nature/game reserves	hiking trails			measures
Social env Restricted reas:	ironment nature/game reserves green belts	hiking trails sacred/holy grounds	tourism routes	parks	measures

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Potential impact e.g. thre		hidder		partially
6.2 Visual aesthetics:		hidden	1	partially
	OLONA MARKANIA MARKAN			
otential impact		PAEI		
	cultural significance	archaeological objects	monuments	palaeontological objects
	graves	meteorites	ruins	ØTHER
esource Act, No 25 of 1 e SAHRA. If line or ac otential impact	999 be identificess road len	ed, the requirements gth exceeds 300m ABOVE	s of Act 25 of 1999 SAHRA shall be	RECH
Esson (=	HVEOH	MEHIALO	thicess y	PLETION MUT BE
1 Land use: crops	3	(rchards	grazing	crop spraying
game	e farming	forestry areas	mining	OTHER
rief description	HAICIS	MAGE MAN	LATSLE O	H THE

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Potential impact	Noin	PACI			
7.1.1 Commercial:	factories		shops	OTHER.	
Brief description Potential impact	14/A 14/A-				
7.1.2 Infrastructure:		railways sewage	communications	ower lines	air fields
Brief description:	SWER	UMES THE	MD 9	zave c	POAD.
Potential impact⊁	to iu	PAG			
Comments/mitigating	measures:	HOME			

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Should the SAHRA be notified?

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			nnex B	
What 1.	impact will thi Physical	s project have on elements 4 t	0.7?	
No im	pact (1)	Medium impact (2)	High impact (4)	
2.	Natural			
No im	pac 🔘	Medium impact (2)	High impact (4)	
3.	Social			
No im	paq((0)	Medium impact (2)	High impact (4)	
This s	three spheres	(physical, natural and social)	impact of the project. The impacts as assessed in need to be considered to determine the overall impact 4	the
	No in	pact Medium impac	t High impact	
Altem	nmental Senio	or Superintendent.	entact the Environmental Management Officer or several sevent land owner/s or users?	ine
IVO	Engles - 22			
Detaile	ed study			
ls an e	nvironmental a	assessment required in terms of	of Regulation R543?	
Yes	W-1			
9				
Should	a permit appli	cation be made to DWA?		
/es				
NO N				

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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 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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2 Special conditions								
(Specific issues identified or protected trees, etc.).	during the	scoping a	as needing	attention	i.e. erosio	n berms,	bird	flappers,
	NI	HC-			***************************************			
		xa						
***************************************		AUGUSTO CONTRACTOR						

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	, and a second
flud 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. 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. select route and method of installation to suit landowners' conditions. select timing of activity.				
Inconvenience					
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. Ponding or channelization of surface	use and maintenance of appropriate stream crossing device. timing activities to stable ground conditions.				
waters due to rutting. Contamination of surface or ground waters through spills or leaks of toxic substances.	use of gravel roads. 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.				