ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

1

Page:

18 of 70

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

Reticulation Powerlines and Ancillary Services

Ratified and accepted by			
Environmental Practitioner	us labetus	Telacolala Sessi	
Environmental Specialist		March Ships February	
Head of Engineering Survey			
(one signature please) Accepted by Land Owner/s/Use	IS P.C MABASI	2	~
I have seen the completed docu recommendations made	ment and accept the	(MAKGWAKGWA)	AD.
Form completed by A Next	f	()	
in consultation with : P.C. MA	Signature Signature	de	
CAPACITY (e.g. land owner, sp	pecialist): 7 Navember 2018	HEALMAN	

Instructions

- Fill the report in as neatly and completely as possible.
- Where the question / statement is not applicable mark N/A.

7 November 2018

- 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:

DATE COMPLETED:

- 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.

ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

Page:

19 of 70

		nex B	to Prince
1 Project de	200	index)	artessa v
Rural scheme/ Feeder Supply from	Tshabalala Services Malookelele Pegging Koloti Uarious	Area Polokwor File number	***************************************
Supply to (Farm name, etc.	Maba kelele Village	4.27	***************************************
Compilation num Farm name Registration num	Maliet zie locotion aber and Division 606 65 ber 232900 Line I aber and Division 606	Sub-division ength (m) MV= 1&1	5m
3 Brief descr Mobokeleli to tar with ku	ription of the surrounding ar Unlique near Sen read Village Trees. Layouth of	ea hogo / Blocolnuer	f area structured
Could the propos	sed project have an impact on or I	be constrained by any	of the following environ

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 IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

1

Page:

20 of 70

Annex B (continued)

4 Physical e	environment				
4.1 Water:	streams rivers	dams wetlands	s springs floo	dplains OTHER	
Potential impact	t (e.g. threat of poll	ution): N.A			
4.2 Soil:	sandy	rocky	clayey	OTHER	
Present condition	on Seft so	,/.			
	t (e.g. of erosion) .	N.A	eys ravines d	ongas OTHER	
Present condition	on: Flot	ared.			
Potential impac	t (e.g. of erosion) .	N-A			
Comments/mitig	gating measures:				
	/				

ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

1

Page:

21 of 70

			Annex B			
5 Natural er	vironment					
5.1 Flora:	indigenous	protect	ed	exotic	0	THER
Brief description	and conservation st	atus (e.g. ra			ush/grass)	
Potential impact	t (e.g. permit applicat	ionsNONE	Nor	ρ.		
5.2 Fauna:	mammals	***************************************	birds		OTHER	R
State of the second second second second	and conservation stated, etc., mention gire		nts, eagles	, vultures, et	c., mention	migratory paths)
				ara:		***************************************
Potential impact	t (e.g. threat of electro	ocution, collis	sion, etc)	77-71		
Comments/mitig	gating					measures:
	. /					
6 Social env	rironment					
6.1 Restricted areas:	nature/game hill reserves	king trails	tourism	routes	parks	recreational areas
Desidential- areas	gr	cred/holy ounds				
Brief description	Area with	stand	r and	haso	U	

ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

1

Page:

22 of 70

otential impact e.g. thr	eat of encroachi	Annex B (continued)	.A ·	
.2 Visual aesthetics;) hidden		partially
rief description	w power	ines next	to stars	h and
otential impact	1.4			
.3 Natural heritage:	cultural significance	archaeological objects	monuments	palaeontological objects
	graves	meteorites	ruins	OTHER
he SAHRA. If line or	access road let	ngth exceeds 300m	SARKA SHAIL DE	9 shall be followed by not notified.
Comments/mitigating n	measures			
	N.A			
7 Economic envi	ronment			
7.4.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	1000	orchards	grazing	crop spraying
AND CONTRACTOR OF SEC.	rops ame farming	forestry areas	mining	OTHER
9	and lanning			
Brief description				

ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision

1

Page:

23 of 70

			nnex B ontinued)	
Potential impact	nne -	************************		
				1
7.1.1 Commercial:	factories		shops	OTHER
	A			111 110
Brief description	lone .	*****************		
				8/8
7.1.2 Infrastructure:	roads	railways	communications	power lines air fields
A	pipelines	sewage	OTHER	
Brief description:/				***************************************
	4			
Potential impact/V			***************************************	
Comments/mitigating	measures:	/		

UP-19-00-800-79-1101-201-201-010-1101-010	/		***********************	

ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

1

Page:

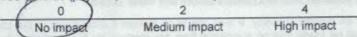
24 of 70

Annex B (continued)

What impact will this 1. Physical	s project have on elements 4 to	77
No impact (0)	Medium impact (2)	High impact (4)
2. Natural		
No impact (0)	Medium impact (2)	High impact (4)
3 Social		
No impact (6)	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



If the overall impact is between 2 and 4, contact the Environmental Management Officer or the Environmental Senior Superintendent.

Alternatives

Have all	ternative roof	es been di	scussed	with the	relevant	land o	wner/s	or us	ers?
Yes No									

Detailed study

No

Is an environmental assessment required in terms of Regulation R543?

Yes No

Should a permit application be made to DWA?

Yes No Should the SAHRA be notified?

ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

1

Page:

25 of 70

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.
- 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 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.

ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

1

Page:

26 of 70

Annex C

- 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 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.
- 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).
- 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.

ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

1

Page:

27 of 70

Annex C (continued)

Special	conditions	
SDECIAL	conomons	

(Specific issues identified protected trees. etc.).	during the	scoping a	as needing	attention i.e.	erosion	berms,	bird flappers

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 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, injuried livestock.
SOCIAL IMPACTS	
Mud and Dust	 wetting down dry soils. chemical control of dust. cleaning roads to remove mud. temporary planting of grasses.

ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

1

Page:

28 of 70

Annex C

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.	
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.