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		
Environmental Specialist		COUNCIL
Head of Engineering Survey		MANKWENG TRADITIONAL COUNCIL
(one signature please)		PO BOX 403 LESHOANE
Accepted by Land Owner/s/Users	Sic	my 0724
I have seen the completed document	and accept the	2019 -05- 28
recommendations made		7012 -07 50
	Assessor/s A	MAMABOLO LOCATION
Form completed by MAJIIBA	Z.M. Signature: CLS	KGOSHI N.S MAMABOLO
in consultation with : *M.LMar	nable Signature: " Uslamasso	LIMPOPO PROVINCE
CAPACITY (e.g. land owner, specialis		
DATE COMPLETED: \$ 28-	05-2019	

Instructions

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

ENVIRONMENTAL IMPACT ASSESSMENT FOR

Unique Identifier:

240-72597722

DISTRIBUTION ACTIVITIES

Revision:

1

Page:

19 of 70

1 Project description
Project name/Survey Request Project number MM k 2559145 79 File number Rural scheme/
Feeder MONSEMANIE Voltage 11 KV Supply from UMY 192/13
(scheme name, pole numbers for tee-off)
Supply to
(Farm name, etc.)
2 Properties traversed
Farm name Registration number and Division 984 Sub-division
Compilation number and Division
Compilation number Line length (III)
Farm name
Registration number and Division
Compilation number Line length/Site area (m²)
3 Brief description of the surrounding area
free is open and flat with small dry river to cross.
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.

ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

1

Page:

20 of 70

4 Physical env	rironment			
				ns OTHER
Present condition:	TGE V	uith sma	11 dry V	iver to cros
Potential impact (e.	g. threat of pollution):		
	D/V/WAW	impect		
4.2 Soil:	sandy	rocky	clayey	OTHER
Present condition: .	vorcky e	nd Sandy		
Potential impact (e.	g. of erosion) mountains ridge	27.702°00/100	ravines dongas	
Present condition: .	Flat			
Potential impact (e.	g. of erosion)	MINMUM	impaet	
Comments/mitigatin			-17	

ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

1

Page:

21 of 70

5 Natural env	vironment				
5.1 Flora:	indigenous	protected	l exotic	OTH	IER
		10 1055	etc., mention tree		
5.2 Fauna:	mamma	als	birds	OTHER .	
(ted, etc., mentior	n giraffe, elephant	s, eagles, vultures		
6 Social envi	ronment				
6.1 Restricted areas: Residential-areas	nature/game reserves green belts	hiking trails sacred/holy grounds	tourism routes OTHER		recreational areas
Brief description	Area	is ou	t of H	e Villac	<u>e</u>

ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

1

Page:

22 of 70

			rage.	22 01 70
		Annex B (continued)		
Potential impact e.g. the	nreat of encroachi	ment, etc.	*	4
6.2 Visual aesthetics		hidden		partially
Village		e 15 e		
Potential impact ?	1) Hucary	IMPROC		
6.3 Natural heritage:	cultural significance	archaeological objects	monuments	palaeontological objects
	graves	meteorites	ruins	OTHER
	of 1999 be identified	ed, the requirements	of Act 25 of 1999	ed in the National Heritage shall be followed by notifying otified.
Potential impact	inamum	,		
Comments/mitigating n	neasures			
7 Economic envi	ronment			
	ops ame farming	orchards forestry areas	grazing mining	crop spraying OTHER
Brief description\	and use	d for o	razing a	nd Crop forming

ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

1

Page:

23 of 70

Potential impact	$\mathcal{N}_{joinnum}$	in pac	Ł		
7.1.1 Commercial:	factories		shops	OTHER	= = =
Brief description Potential impact	Area	is ou	t of th	v.'llaç	3 e
7.1.2 Infrastructure:		railways sewage	communications		air fields
Brief description:	sater pi	pelines	supplies	the bo	ovehole.
Potential impact					
Comments/mitigating	ı measures:				

Document Classification: Controlled Disclosure Unique Identifier: 240-72597722 ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES Revision: Page: 24 of 70 Annex B (continued) What impact will this project have on elements 4 to 7? Physical No impact (0) ~ Medium impact (2) High impact (4) Natural High impact (4) No impact (0) Medium impact (2) 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 0 High impact No impact Medium 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 Detailed study Is an environmental assessment required in terms of Regulation R543? Yes No

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Should a permit application be made to DWA?

Should the SAHRA be notified?

Yes

Yes No

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.
- 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.
- 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

(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.

ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

1

Page:

27 of 70

Annex C (continued)

2 Special conditions						
(Specific issues identified during protected trees. etc.).	the scoping	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 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. 			

ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

1

Page:

28 of 70

Annex C (continued)

	(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. select route and method of installation to suit
Heritage resources	landowners' conditions select timing of activity avoidance/isolation.
Tientage 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 disruptive. screening and restoration. minimise noise and dust. safety precautions to protect the public. scheduling to avoid peak use periods.
WATER QUALITY	scriedding to avoid peak use periods.
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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