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	
Head of Engineering Survey	
(one signature please)	
Accepted by Land Owner/s/Users	
I have seen the completed document a	and accept the
recommendations made	
	Assessor/s
Form completed by	Signature:
in consultation with : LR Man	Signature: Duny LBM4704)
CAPACITY (e.g. land owner, specialis	1) Rom Clerk
DATE COMPLETED: 11 0	CTOBER 2022

Instructions

- 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.

SOUTHEY TRIBAL COUNCIL Cell: 0826219090

1 OCTOBER 2022

ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

1

Page:

19 of 70

Annex B (continued)

1 Project description

Project name/Survey Southern Area	Project name/Su Request
	Project number
Rural scheme/ HMP 27/1/2014	Rural scheme/ Feeder
scheme name, pole numbers for tee-off) Supply to Supply to Residencial House	Supply from (scheme name, Supply to
Farm name, etc.)	(Farm name, etc

Properties traversed	2 Properties
SOUTHEY	Farm name
Registration number and Division .4.7.7. T.M. Sub-division .P. T.M. 0	
Compilation number Line length (m)	Compilation num
Compilation number Line length (m)	Farm name
Registration number and Division 474 J.M. Sub-division P. 714 D. Line length/Site area (m²)	Registration nun
Compilation numberLine length/Site area (m²)	Compilation nun
Brief description of the surrounding area	3 Brief desc
The area is 11 coted is sangers VIII of a sputter Extens, of near	The of
5611 43 84119	,000
Could the proposed project have an impact on or be constrained by any of the following environmenta aspects?	Could the proposed aspects?

ESKOM COPYRIGHT PROTECTED

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 en	vironment			
4.1 Water: str		ms wetlands		
Present condition:	MO VI	Nowa	my sp	orio on
Potential impact (or Charles of Property o	e.g. threat of pollution) limpa to th	et ort e surri	threat
4.2 Soil:	sandy	rocky	clayey	OTHER
Potential impact (c	e.g. of erosion)	0 1 mPaces hills valleys	ravines donga	as OTHER
Present condition:	There of PYOP e.g. of erosion)	ave no	dongas ower 11'n	hiss rouses
Comments/mitigat				
No m there	itiga	ing in	e asar-	e 5/me

ENVIRONMENTAL IMPACT ASSESSMENT FOR

DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

Page:

21 of 70

Annex B (continued)

			,			
5 Natural env	ironment					
5.1 Flora:	indigenous	protecte	ed exo	tic	OTHER	•
Brief description a				s regs	There is	to Panplan.
5.2 Fauna:	mamm		birds		ER	,
oin i dana.	·	uio	ellius	01111	_1 \	
Brief description a (e.g. rare; protecte Potential impact (Comments/mitigat	e.g. threat of ele	ectrocution, collis	sion, etc)	of G	Mario	measures:
						•
6 Social envir	ronment					
6.1 Restricted areas:	nature/game reserves	hiking trails	tourism routes	parks	recreation areas	nal
Residential- areas	green belts	sacred/holy grounds	OTHER			
Brief description .	Hi po	AV 200	jame 12	LServes	on 19	

ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

1

Page:

22 of 70

		Annex B (continued)	1 10 . (1	and March
Potential impact e.g.	threat of encroachm	nent, etc. H	to the	Surromalus
6.2 Visual aesthetic	s: easily seen	hidden	p	partially
Brief description	here is	I an ex aversing	in the	overhead frimi areasils
Potential impact	Moing	rait		
6.3 Natural heritage	e: cultural significance	archaeological objects	monuments	palaeontological objects
	graves	meteorites	ruins	OTHER
	of 1999 be identified	d, the requirements	of Act 25 of 1999 s	ed in the National Heritage shall be followed by notifying otified.
Comments/mitigating	measures HV	impart	-	
7 Economic env	rironment -			
7.1 Land use:	crops	orchards	grazing	crop spraying
	game farming	forestry areas	mining	OTHER
Brief description	so or yps	min's	Les to Yest	NO WEA

ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

1

Page:

23 of 70

Annex B (continued)

Potential impact	Ho impoc	5	
7.1.1 Commercial:		\bigcirc	OTHER
Brief description	er were 1 Ampart which em	few juice	Shops
7.1.2 Infrastructure:	coads railways pipelines sewage OVERNATION	communications of Contractions of Contractions	ower lines air fields
	to Impar		
Comments/mitigating	tiguring	hers.	5 0 W

ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

1

Page:

24 of 70

		ontinued)
What impact will this 1. Physical	s 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)
above three spheres	s (physical, natural and social) i	impact of the project. The impacts as assessed in the need to be considered to determine the overall impact
No im	npact Medium impact	High impact
If the overall impa Environmental Senio	act is between 2 and 4, co or Superintendent.	ntact the Environmental Management Officer or the
Alternatives		
Have alternative rou	tes been discussed with the rel	evant land owner/s or users?
Detailed study		
Is an environmental	assessment required in terms o	of Regulation R543?
Should a permit app	lication be made to DWA?	
Should the SAHRA I	pe 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.
- 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: Page:

1

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 the scoping as needing attention i.e. erosion berms, bird flappers, protected trees. etc.).

permit is regured to trim the two tries on the LV route on

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)

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
Inconvenience	landowners' conditions.
	- select timing of activity.
Haritaga ragguraga	- avoidance/isolation.
Heritage resources	- design measures to make facility less obtrusive.
	screening. alternate methods of equipment.
	 protection by use of enclosures, parrier fencing, covering.
	- salvage in conjunction with SAHRA.
	- relocation in conjunction with SAHRA.
Tourism and recreation resources	design measures to make facility less obtrusive of
Tourism and recreation resources	disruptive.
	- screening and restoration.
	- minimise noise and dust.
	- safety precautions to protect the public.
	- scheduling to avoid peak use periods.
WATER QUALITY	- Scrieduling to avoid peak use periods.
	miniming upo of alance adiacont to atrooms during sails
Sedimentation of streams due to	- minimise use of slopes adjacent to streams during soils
erosion from the right-of way.	testing, construction and maintenance.
	maintain a cover crop. retain buffers.
Stream bank erosion.	
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	use and maintenance of appropriate stream crossing
streams/others surface waters.	device.
Ponding or channelization of surface	
waters due to rutting.	- use of gravel roads.
Contamination of surface or ground	- spill control material and procedures readily available.
waters through spills or leaks of toxic	- site selection where possible.
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.