ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier.

240-72697722

Kayldon: Pages

10 of 70

Annex B - Distribution Environmental Screening Document (DESD)

Reticulation Powerlines and Ancillary Services

Ralifod and accepted by Environmental Procillional Environmental Specialist	POPPATIANTITO OF CO.CO.
Head of Engineering Survey (one signature please) Accepted by Land Owner/s/Users	THADITIONAL CRUNCH O I A FOR TO SHARING THE
thave seen the completed document and accept the	LIBOUR TO THE
Form completed by Jelk Mile Land Assessor/s Vinconsultation with: MAJELE MARKET MARKET MILE LAND CLERKE.	P/BAG X1153 XIKUNDU REMBE DISTRICT SUPPORT CENTHI
> In consultation with: T.A. IR J.C.R.C., C.A. A. A. Signature	- ON GWINE
DATE COMPLETED: A S. /	

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 Proclitioner 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 miligale 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 Roule 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 his inficient space has been provided.

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ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

1

Page:

19 of 70

Annex B (continued)

Project description
Project name/Survey Request Project number Rural scheme/ Feeder Supply from (scheme name, pole numbers for tee-off) Supply to (Farm name, etc.)
2 Properties traversed
Farm name Registration number and Division Compilation number Registration number and Division Registration number and Division Compilation number Line length/Site area (m²)
3 Brief description of the surrounding area
For sandy surat rendental
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.

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ENVIRONMENTAL IMPACT ASSESSMENT FOR

DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

1

Page:

20 of 70

Annex B (continued)

Physical en	vironment				
	reams rivers	dams wetlands	springs	floodplains	OTHER
		Y/A			
Potential impact (e.g. threat of pollu	ution):			
4.2 Soil:	sandy	rocky	claye	D	OTHER
4,5 Topograpii	y Mouricanie				
		Hat G	2	in pa	C
***************************************	*******************	No Iu		************	
			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		

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ENVIRONMENTAL IMPACT ASSESSMENT FOR

DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

1

Page:

21 of 70

Annex B (continued)

5 Natural environment	onment			OTHED	
5,1 Flora:	Indigenous	protected	exotlo	OTHER	
Brief description and Co. Co. Co. Co. Potential impact (e. 5.2 Fauna:	d conservation st G. permit applical mammals	(O PC1)	a, mention trees/bush M. (→ ΥΘ irds	/grass) 1 W.I. ICO OTHER	
Domest	d, etc., mention g	Iraffe, elephants,	eagles, vultures, etc., , etc)	****************	
			•		measures:
Comments/mitigal	ling				***************************************
6 Social envi		27 mil	regulied		
6,1 Restricted areas: Residential- areas	nature/game reserves green belts	hiking trails sacred/holy grounds	tourism routes OTHERB.Y.S.	parks	recreational areas
Brief description	Bu	shy-			

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Document Classification: Controlled Disclosure 240-72597722 Unique Identifier: ENVIRONMENTAL IMPACT ASSESSMENT FOR Revision: DISTRIBUTION ACTIVITIES 22 of 70 Page: Annex B (continued) Potential impact e.g. threat of encroachment, etc. partially..... hidden 6.2 Visual aesthetics: palaeontological monuments archaeological 6.3 Natural heritage: cultural objects objects significance OTHER..... meteorites ruins graves Note: Should any natural heritage resource as listed above, or as defined in the National Heritage Resource Act, No 25 of 1999 be identified, the requirements of Act 25 of 1999 shall be followed by notifying the SAHRA. If line or access road length exceeds 300m SAHRA shall be notified. Comments/mitigating measures 7 Economic environment crop spraying grazing orchards crops 7.1 Land use: OTHER mining forestry areas game farming

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ENVIRONMENTAL IMPACT ASSESSMENT FOR

DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

1

Page:

23 of 70

		Annex B (continued)			
		X //A.			
Potential Impact				111111111111111111111111111111111111111	
7.1.1 Commercial:	factories	shops	OTHER	enterfa	Inmen 2.
Brief description	Meuly	built	enter te	21 MPut	ake
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	م ا	cet		
7.1.2 Infrastructure:	ninelines s	allways commur sewage OTHER			
Brief description:	sel t	5-to-c	(elton	OM.	
149414441911411414		M (u	****************	()******************	
Comments/mitigatin			v		
Collination		<u> </u>	uput		
***************************************	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				

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Document Classification: Controlled Disclosure 240-72597722 Unique Identifier: ENVIRONMENTAL IMPACT ASSESSMENT FOR Revision: DISTRIBUTION ACTIVITIES 24 of 70 Page: Annex B (continued) What Impact will this project have on elements 4 to 7? Physical High impact (4) Medium impact (2) No Impact (0) Natural 2. High Impact (4) Medium Impact (2) No Impact (0) Social High impact (4) Medium Impact (2) No Impact (0 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 2 High Impact Medium impact No 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? No

Detailed study

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?

Yes

No

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ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

1

Page:

25 of 70

Annex C - Environmental Management Plan (Normalive)

1 General conditions

- 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 1.1 landowners have been informed before moving onto site.
- No fences, gates or locks shall be damaged to obtain access onto a line route. Arrangements 1.2 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 1.3 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 1.4 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.
- Permission shall be obtained from landowners before any water is used. 1.5
- 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 1.6 in the veld.
- If activities that can cause a fire are carried out, fire extinguishers shall be available on site and in 1.7 the construction camp.
- No property may be accessed after normal working hours except with the permission of the 1.8 landowner. Privacy shall be respected at all times.
- Eskom, Eskom's contractors and their employees shall at all times be courteous towards 1.9 landowners, tenants and the local community.
- 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 1.10 local community shall be avoided. Should conflict arise it shall be immediately reported to the Eskom project manager or co-ordiator.
- Vehicles shall be driven at a moderate speed on private roads and stay within the statutory speed 1.11 limit on public roads.
- 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 1.12 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)

- If any vehicle should get stuck, the damage shall be repaired immediately so that no deep ruts 1.13 remaln.
- 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 1.14 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.
- 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 1.15 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.
- Washing and toilet facilities shall be provided on site and in the construction camp. The facilities 1.16 shall comply with Eskom standards and shall have the approval of the landowner.
- No human excrement shall be left in the veld. If no toilet facilities are available such waste shall 1.17 be buried immediately.
- Herbicides shall only be applied with Eskom's permission and in accordance with the Eskom 1.18 Policy on Herbicides ESKPBAAD4.
- 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 1.19 to the satisfaction of the landowner, which shall be in writing.
- All excavations shall be enclosed to prevent animals or people from accidentally falling into 1.20 excavations.
- No trees shall be cut or removed without prior permission from the landowner. Permits shall be obtained for the cutling and removal protected trees (protected trees shall be dealt with In 2, 1.21 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 1.22 Eskom Environmental Practitioner and the SAHRA.

2 Special conditions

protected trees, etc.).

ENVIRONMENTAL IMPACT ASSESSMENT FOR DISTRIBUTION ACTIVITIES

Unique Identifier:

240-72597722

Revision:

1

Page:

27 of 70

Annex C (continued)

(Specific issues identified during the scoping as needing attention i.e. erosion berms, bird flappers,

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TYPICAL MI	TIGATION MEASURES
ENVIRONMENTAL CONCERNS	MITIGATION MEASURES
AGRICULTURE	
Loss of standing crop due to access road and tower work site.	 Ilmit width of access and size of tower site. avoldance of crop areas. monetary compensation for crop loss. time construction to avoid growing season.
Soil Compaction	 scheduling activities to times of the year when solls 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.

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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.
nconvenience	- 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.
,	- salvage in conjunction with SAHRA
	 relocation in conjunction with SAHRA. design measures to make facility less obtrusive of
Tourism and recreation resources	- design measures to make tacinty less obtractors
	disruptive screening and restoration.
	t t t - mains and dust
	to be a mouthone to protect the nublic.
	- safety precautions to protect the passes - scheduling to avoid peak use periods.
	- Scheduling to avoid peak doe periods.
WATER QUALITY	- minimise use of slopes adjacent to streams during soils
Sedimentation of streams due to	testing, construction and maintenance.
erosion from the right-of way.	1 1 1
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	machanical erosion control.
Stream bank erosion.	I rotate shrubby stream bank vedetation and selectively
	cut or prune trees during line clearing/maintenance.
	selective spraying of herbicides.
	Mechanical erosion control.
- Carrier Carrier	- use and maintenance of appropriate stream crossing
Impedance of natural flow	device.
streams/others surface waters.	- timing activities to stable ground conditions.
Ponding or channelization of surface	- use of gravel roads.
waters due to rutting.	Aldelian Allega and Al
Contamination of surface or ground	- spill control material and probedures readily dramaway
waters through spills or leaks of toxic	- site selection where possible.
substances.	the section of milling by vohicles where possible.
Soil compaction/topsoll-subsoil mixing.	avoidance of futing by vehicles whole possible.
	- construction timing use of gravel roads.
	I was a combining with low bearing pressures.
	t could a suban around conditions are DOOL
	avaldance of areas with high erosion potential.
Wind/water erosion.	I will a statistica to the most stable dround conditions.
	linhilleation
	1
	we taken aradan control
	- my action of tropping
	the first share parallel to the fall of a SiODG.
	- avoid trenching parallel to the fall of a clops.

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