ENVIRONMENTAL IMPACT ASSESSMENT FOR Unique Identifier: 240-7259772	9
ENVIRONMENTAL IMPACT ASSESSMENT FOR Unique Identifier: 240-7259772	***
DISTRIBUTION ACTIVITIES Revision: 1	
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Annex B - Distribution Environmental Screening EXPMINIM (EHEDAN) (Informative) MNINGINISI BLOCK 2 VIL	M.S. AGE
Reticulation Powerlines and Ancilla y Servic <mark>อุธีกุร -07- 0 3</mark>	
Ratified and accepted by Environmental Practitioner Environmental Specialist Head of Engineering Survey RO. BOX 4369, GIYANI. CELL: 072 1196 27 LIMPOPO PROVINC	0826 2 E
Head of Engineering Survey (one signature please) Accepted by Land Owner/s/Users	_
I have seen the completed document and accept the	1-1,
Assessor/s	
in consultation with: M.S. KIAPHINANISignature: CAPACITY (e.g. land owner, specialist): H.F.A-UMA-M. DATE COMPLETED: DOI 5 07 03	
Instructions	

- 1. Fill the report in as neatly and completely as possible.
- 2. Where the question / statement is not applicable mark N/A.
- 3. 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.

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Annex B (continued)

1 Project description
Project name/Survey Glyane G144718592 Request Area Project number
Feeder frumen Voltage 22 W
Rural scheme/ Feeder Furumi Voltage 22 W Supply from TF/11 Khup (scheme name, pele numbers for tee-off)
Supply to
(Farm name, etc.)
2. Proposico (vovorend
2 Properties traversed
Farm name Registration number and Division \$4 Sub-division 7 Compilation number 233.0 Line length (m) 302,34
Farm name
Registration number and Division Sub-division Sub-division
Compilation number Line length/Site area (m²)
3 Brief description of the surrounding area
·
Righelished all

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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Annex B (continued)

4 Physical environment
4.1 Water: streams rivers dams wetlands springs floodplains OTHER Present condition: Alexy Au June Sunday Theody flood
Tresent condition.
Potential impact (e.g. threat of pollution):
4.2 Soil: sandy rocky clayey OTHER
Present condition: pelly sell
Potential impact (e.g. of erosion)
Present condition: recley Lev
Potential impact (e.g. of erosion)
Comments/mitigating measures:

Document Clas	sification: Contro	olled Disclosure				
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			Annex B (continued)			
5 Natural er	vironment		•			
5.4 Flora:	indigenous	protec	eted	exotic	OTHER	₹
Brief description	and conservation	on status (e.g. ra	are, etc. ment	on trees/bush/	grass),	
Potential impact	(e.g. permit app	lications	reA	mil		***************************************
*****************					*************	
5.2 Fauna:	mamn	oals	blrds		OTHER	
Brief description (e.g. rare, protection Potential impact	ted, etc., mentic	on giraffe, elepha	1			*******************************
Comments/mitigation	ating					measures:
***************************************	·····	·····				
•••••				******************	• • • • • • • • • • • • • • • • • • • •	
***************************************	•••••	***************************************	******************	***************	•••••	**********
6 Social envi	ronment			***************************************	***************************************	
6.1 Restricted areas:	nature/game reserves	hiking trails	tourism rot	ites pa		creational eas
Residential- areas	green belts	sacred/holy grounds	OTHER	••••••		
Brief description					••••••	

Document Classificat	ion: Controlled Di	sclosure		
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Potential Impact e.g.	threat of encroach	Annex B (continued) ment, etc		
6.2 Visual aesthetic	s: easily seen	hidden		partially
Brief description	and My	12 Sun	·····	
Potential impact		mahne	1	
6.3 Natural heritage		archaeological objects meteorites	monuments	palaeontological objects OTHER
Note: Should any r Resource Act, No 25 of the SAHRA. If line or	of 1999 be Identifi	ed, the requirements	of Act 25 of 1999	ed in the National Heritage shall be followed by notifying notified.
Potential impact				
Comments/mitigating	measures			
7 Economic envi	ronment			
	rops ame farming	orchards forestry areas	grazing mining	crop spraying OTHER
Brief description			- /	

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Annex B

		(continued)			
		1			
Potential impact		mandend			
7.1.1 Commercial:	factories	shops	OTHER .		
					uu ta Netalu.
Brief description	•••••		***************************************		
•					
7.1.2 Infrastructure:	roads	railways communica	itions power lines	air fields	
		sewage OTHER	Link		
Brief description:	gfin	1			
·					
		••••••			

Comments/mitigating					
•••••					

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Amne; (continu		
What impact will this project have on elements 4 to 7? 1. Physical		
No impact (0) Medium impact (2) 2. Natural	High impact (4)	
No impact (0) Medium impact (2)	High impact (4)	
No impact (0) Medium impact (2)	High impact (4)	
Overall impact: This section addresses the overall environmental impa above three spheres (physical, natural and social) need 0 2	to be considered to determine t	as assessed in the he overall impact
No impact Medium impact	High impact	
If the overall impact is between 2 and 4, contact Environmental Senior Superintendent.	the Environmental Managen	nent Officer or the
Alternatives		
Have alternative routes been discussed with the relevan	t land owner/s or users?	
YesNo		
Detailed study		
Is an environmental assessment required in terms of Re	gulation R543?	
Yes No 1		
Should a permit application be made to DWA?		
Yes		
Should the SAHRA be notified?		
Yes		

No

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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.
- 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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Appay C

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

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.

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Annex C (continued)

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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
Inconvenience	select route and method of installation to suit landowners' conditions.
Heritage resources	select timing of activity. avoidance/isolation. design measures to make facility less obtrusive. sergonian
	 alternate methods of equipment. protection by use of enclosures, barrier fencing, covering. salvage in conjunction with SAHRA
Tourism and recreation resources	 relocation in conjunction with SAHRA. design measures to make facility less obtrusive of disruptive. screening and restoration. minimise noise and dust. safety precautions to protect the public.
WATER QUALITY	- scheduling to avoid peak use periods.
Sedimentation of streams due to	- minimise use of clopes of the authority
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.
waters due to rutting. Contamination of surface or ground	timing activities to stable ground conditions. use of gravel roads.
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.
1	 stop activities when ground conditions are poor. 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.