

5. Annexure B

PHASE 2 Distribution Environmental Screening Document (DESD) template

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Instructions:

- a) Please COMPLETE ALL REQUIRED INFORMATION by marking with an X or providing description where relevant. Where the question / statement is not applicable mark as N/A instead of leaving blank.
- b) The Phase 2 DESD must be accompanied by a locality map (kml, dgn, Shapefile, etc.) showing the alternative routes / sites considered with a project drawing and where possible, photographs of the site (see below table on additional information required to accompany DESD)
- c) Indicate sensitive areas on a map and/or spanning plans.
- d) The DESDs must be **scanned and e-mailed with supplementary information** to Environmental Management as per internal arrangement (eg. SharePoint/ Dedicated E-mail address) and a hardcopy must be kept by the DESD Compiler as evidence that environmental impacts of projects have been considered and retained for audit purposes.

ADDITIONAL INFORMATION TO ACCOMPANY PHASE 2 DESD SUBMISSION

Additional supplementary information is required to apply for relevant permits from authorities and to adequately assess the project. Note that DESDs submitted with no supplementary information might be delayed and/or rejected. The following must accompany the DESD application. Please indicate what supplementary information has been submitted with the DESD by marking with an x.

Supplementary Information	Not Applicable	Attached to Application?	
		Yes	No
Locality Map (Indicate route/location perimeters assessed on the map)		X	
GPS coordinates of sensitive features (river crossings, wetlands, trees, graves, old structures or buildings, etc.)		X	
Photographs of site where possible (location of proposed infrastructure within the surrounding environment)		X	

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Where possible, photos of trees to be removed (if trees need to be removed please take a photo of the tree and a close up of a branch of the tree in order to identify the tree)			
Development Authorisation (eg. Vodacom, municipal housing development, etc. where applicable)		X	
GPS coordinates of location of new infrastructure (start, middle and end coordinates in the case of a powerline infrastructure)		X	
Any other supplementary information supplied? Please elaborate			

SECTION A: PROJECT SCOPE AND ADDITIONAL INFORMATION

1. PROPERTY INFORMATION (PLEASE COMPLETE IN FULL)

Area/ Town:	Tarlton
Municipality:	Mogale City
Rural Scheme Feeder:	
Voltage:	11kv
Supply from (Scheme name, pole numbers for tee-off):	Tarlton Substation
Erf or Farm Name and Nr etc. (property for which application is made)	PTN 336 OTF VLAKPLAATS 160 IQ
Street Address:	N/A
GPS Coordinates of Property (A logical centre point. Format based on WGS84):	26° 4'10.14"S 27°39'20.22"E

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Extent of Property (Hectares):	33.1316 hectares		
Land Use (e.g. Agricultural, Residential, Industrial, etc.):	Agricultural , Residential , Business		
Land Owners Telephone Nr:	(Home)	(Cell) 061 5085493	(Fax)
Land Owners Email Address:			
Total Length of Line (m)	907m		

2. PROPERTIES TRAVERSED

Farm Name:			
Farm Number (Registration Nr, Division and Sub-division):	PTN 337 OTF VLAKPLAATS 160 IQ		
GPS Coordinates of Property (A logical centre point. Format based on WGS84):	26° 4'7.65"S 27°39'21.36"E	Line Length (m):	488m
Form completed in consultation with:		Signature:	
Capacity:		Date:	
Farm Name:			
Farm Number (Registration Nr, Division and Sub-division):	PTN 338 OTF VLAKPLAATS 160 IQ		
GPS Coordinates of Property (A logical centre point. Format based on WGS84):	26° 4'19.43"S 27°39'28.14"E	Line Length (m):	250
Form completed in consultation with:		Signature:	
Capacity:		Date:	
Farm Name:			
Farm Number (Registration Nr, Division and Sub-division):	PTN 339 OTF VLAKPLAATS 160 IQ		
GPS Coordinates of Property (A logical centre point. Format based on WGS84):	26° 4'22.01"S 27°39'29.91"E	Line Length (m):	64m
Form completed in consultation with:		Signature:	
Capacity:		Date:	

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3. PROJECT SCOPE AND SUPPLEMENTARY INFORMATION

Give a brief description of the project scope, including all activities anticipated:				
Will the power line/ cable be 300m or longer? (Y/N)	YES	X	NO	
Will the line be near any old structures or buildings or known historical towns.	YES		NO	X
Are there any marked or unmarked graves on the route/ or on site?	YES	X	NO	
Will any planned activity or infrastructure be within 100m of a watercourse (rivers/ streams/ dams)?	YES	X	NO	
Is any portion of the power line or cable or any other infrastructure within 32m of a watercourse/ wetland? <i>If yes, is the physical footprint of the structure 100 square metres or more</i>	YES		NO	X
Will any planned activity or infrastructure be within 500meters of a wetland (seasonal and permanent)?	YES		NO	X
Is any portion of the power line or proposed activity within 100m of the high-water mark of the sea/ estuary/ lagoon in the Urban area and 1000m in the rural areas?	YES		NO	X
Is a nature reserve, conservancy or any other category of protected area affected?	YES		NO	X
Will the power line be going through or adjacent to an indigenous forest?	YES		NO	X
Will the power line be going through or adjacent to an exotic plantation?	YES		NO	X
Will any portion of project be cabled through veld/ natural vegetation?	YES	X	NO	
Will any portion of project be cabled through a river-bed/ stream?	YES		NO	X
Are new access roads/ tracks needed to maintain and operate the power line?	YES		NO	X
Are there any protected trees/ heritage trees along the power line or close to it? (Owner might know)	YES		NO	X
Will natural/ indigenous vegetation have to be removed prior to construction?	YES		NO	X
Did you observe any evidence of wildlife in close proximity to the power line? For example, birds, nests, giraffe, elephants, etc.	YES		NO	X

SECTION B: ENVIRONMENTAL IMPACT SCREENING

For this section kindly note that marking within the columns needs to be completed **vertically (column orientation) and not necessarily per row.**

- ie first start with marking the “aspect” column to identify the features that are present on site.
- Then after the aspect column, move onto describing the “present condition” of the aspects identified in first column by marking with an X in front of the applicable description.

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- Note that an aspect may relate to more than one "present condition" description eg a river may be "non-seasonal" and "degraded". Therefore, when marking "x" in the present condition column, kindly indicate next to the "x" for which aspect or feature that present condition description refers.

1. WATER RESOURCES					
Aspect (Mark with an 'X' if applicable)		Present Condition (Mark with an 'X' if applicable)		Potential Impact on or by (Mark with an 'X' if applicable)	
Streams	X	Non-seasonal/ Permanently Wet Watercourse	X	Erosion of bed and banks of the watercourse	
Rivers		Seasonal Watercourse/ Dry waterbed		Compaction of ground of bed and banks of a watercourse	
Dams		Man-made Dam or other watercourse		Activity may divert/ restrict the flow of watercourse	
Wetlands		Degraded watercourse (in poor condition)		Activity has the potential to cause flooding	
Sea/ Estuary		Drainage Channel		Risk of oil, fuels, hydraulic fluids, chemicals or other pollutants near watercourse resulting from activity	
Floodplains		Pristine Condition		No Impact	
Springs		Alien Vegetation		Other (specify):	
Other (specify):		N/A		N/A	
Comment: (For reviewer to complete) (exp. Orange River)					

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2. SOIL					
Aspect (Mark with an 'X' if applicable)		Present Condition (Mark with an 'X' if applicable)		Potential Impact (Mark with an 'X' if applicable)	
Sandy	X	Unstable rocky or steep slopes	X	Contamination of soil with concrete and cement	
Rocky	X	Saturated/ wet soils/ shallow water table	X	Compaction of soil due to driving	
Clayey	X	Sensitive to erosion or evidence of erosion in the area	X	Erosion in terms of slope, steepness, length and soil texture and structure	
Other (Specify):		N/A		N/A	
Comment: (For reviewer to complete)					

3. TOPOGRAPHY					
Aspect (Mark with an 'X' if applicable)		Present Condition (Mark with an 'X' if applicable)		Potential Impact (Mark with an 'X' if applicable)	
Flat	X	Unstable rocky or steep slopes	X	Difficulty to construct in area	
Ridgeline		Erosion present on site		Erosion	
Mountainous/ Side slope of hill	X	Steep slopes with loose soil	X	Difficult vehicular access	
Undulating plain/ low hills		Rocky outcrops		New access roads / tracks required	
Dune (In-land or Coastal)		Dolomite, sinkhole or doline areas		Seasonal dune movement (impact on clearance)	
Sea-front		Any other unstable soil or geological feature		Other (Specify):	
Valleys/ Ravine/ Donga		Soil slumping & outwash fans			
Soil piling		Other (Specify):			
Other (Specify):		N/A			
Comment: (For reviewer to complete)					

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4 GROUNDCOVER AND FLORA					
Aspect <small>(Mark with an 'X' if applicable)</small>		Present Condition <small>(Mark with an 'X' if applicable)</small>		Potential Impact <small>(Mark with an 'X' if applicable)</small>	
Natural Vegetation	X	Natural veld in good condition	X	Pollution of ground due to vehicle/ equipment traffic	
Alien Vegetation		Natural veld with scattered aliens		Trampling/ Compaction and loss of natural vegetation due to driving and walking over it	
Bare Soil		Natural veld with heavy alien infestation		Fire risk	
Other (Specify):		Dense vegetation		Erosion risk	
		Gardens/ Sport fields		Vegetation damage and /or destruction of any form is required for construction and maintenance	
		Paved/ Hardened Surface/ Bare		Other (Specify):	
Identification of vegetation type & Comments: (For the reviewer to complete)					

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5 FAUNA					
Aspect (Mark with an 'X' if applicable)		Present Condition (Mark with an 'X' if applicable)		Potential Impact on or by (Mark with an 'X' if applicable)	
Birds (Specify if you can identify type, e.g. vulture, eagle, blue crane, raptor):		Bird nests present		Threat of electrocution	
Mammals		Animals present (Giraffe, Elephants, lion, monkeys, buffalo etc)		Threat of collision	
		Game farm		Safety threat to employees , assets or animal life	
Other (Specify):		Other (Specify):		Other (Specify):	

Comment: (Reviewer to complete)

6.RESTRICTED AREAS			
Aspect (Mark with an 'X' if applicable)		Potential Impact (Mark with an 'X' if applicable)	
Nature Reserve/ Conservancy/ Game farm		Construction within nature reserve/ conservancy or a Game farm	
Heritage Site/ Areas of cultural significance		Loss of natural vegetation/ biodiversity	
Green belts/ Vegetation Corridors		Require permits	
Residential Areas		Objection from public/ other interest groups	
Sacred/ Holy Grounds		Threat of Encroachment/ Direct Impact on restricted area	

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Other (Specify):		Other (Specify):	Marked graves seen
Comment: (Reviewer to complete)			
7. VISUAL AESTHETICS			
Aspect (Mark with an 'X' if applicable)		Potential Impact (Mark with an 'X' if applicable)	
Easily Seen	X	Infrastructure will be obtrusive in landscape (not fit in)	
Hidden Partially		Objection by members of public/ interest group/ owners	
Hidden Completely		Negatively impact on a business (e.g. Tourism)	
Other (Specify):		Other (Specify):	
Comment: (Reviewer to complete)			

8. NATURAL HERITAGE			
Aspect (Mark with an 'X' if applicable)		Potential Impact (Mark with an 'X' if applicable)	
Area of cultural significance	X	Infrastructure will be obtrusive in landscape (not fit in)	
Known Archaeological or Heritage sensitive area		Objection by members of public/ interest group/ owners	
Known Palaeontological sensitive area		Negatively impact on a business (e.g. Tourism)	
Monuments		Threat of encroachment	

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Graves (marked or unmarked)	X	Direct impact (e.g. Cutting of heritage trees, etc.)	
Meteorites		Require permits/ other special permission	
Ruins/ Old buildings (structures older than 60 years)		Deface/ damage to heritage resource	
Windbreak Trees/ Trees with heritage significance/ Trees registered as a heritage resource/ national champion tree		Objection by public/ interest group	
Line is longer than 300m	X	Legal contravention (Notification of Heritage authority required)	
Other (Specify):		Other (Specify):	
Comment: (Reviewer to complete)			

9. LAND USE, COMMERCIAL & OTHER INFRASTRUCTURE			
Aspect (Mark with an 'X' if applicable)		Potential Impact (Mark with an 'X' if applicable)	
Agriculture / Farm lands (Crops, Orchards, Grazing, etc.) Please Specify:	X	Objection by members of public/ interest group/ owners	
Forestry Area		Negatively impact on a business (e.g. Tourism)	
Mining Activity (Including sand mining and quarries): Please specify:		Impact on centre pivots or other farming/ mining implements	
Factories/ Shops/ Industrial (Please specify):		Threat of encroachment with or contact (Safety risk/ clearance)	
Road Crossings or near main roads (National Roads, etc.)	X	Construction limited to specific season/ time period	
Other infrastructure (e.g. Railways, communication towers, existing power lines, sewer, water pipes, Wind turbines cables) Please specify:	X	Loss of orchards, crops, etc.	

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Air fields, landing strips (Please specify):		Other (Specify):	
Shooting range			
Comment: (Reviewer to complete)			

SPECIAL CONDITIONS TO BE ADHERED TO DURING DESIGN / CONSTRUCTION AND OPERATIONAL PHASES (specific issues identified during the screening as needing attention/migratory measures i.e. anti-erosion berms, bird flappers, protected trees, avoid wetlands with vehicles, landowner's specific request, etc.)

The unmarked graves on site should be avoided at all times. It is recommended they barricade the graves during construction to avoid any disturbances.

RECOMMENDED FOR COMPLIANCE AUDITING DURING CONSTRUCTION?

Yes No

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