Social Impacts - Alternative 1

				Constructio	n Phase							
Potential Impact	Mitigation	Extent (E)	Duration (D)	Magnitude (M)	Probability (P)		iignificance =(E+D+M)*P)	Status (+ve or -ve)	Confidence			
	Nature of impact:						te, the job seekers may possible influx of job se		verede. High			
	with	3	1	0	2	8	Low	-	Medium to high			
	without	3	2	4	4	36	Medium	-	Medium to high			
Influx of job seekers, mainly unskilled labour, from the communities around the power line route having job expectations	degree to which impact can be reversed:	Identify pos. Communica Ensure that of jobs for cor Where the the communit Where poss construction e period elapse: Have clear r establish stan	Identify all labour requirements before construction starts Identify possibilities and creation of a liaison desk 4 months before construction starts Communication strategy well in advance of project start Ensure that there is a Community liaison officer from affected communities and together with them study possibilities f jobs for community members e.g vegetation clearing, food vendors Where the jobs have been identified, these must also be formalised through issuing of permits to avoid conflicts within ne community and to avoid loitering. Where possible, ensure that all interested community members get an opportunity to work on the project during onstruction e.g for vegetation clearing, each community member can be allocated a period of working and when this eriod elapses, other community members should be given an opportunity to also work and generate some impact Have clear rules and regulations for access to the camp / site office to control loitering. Consult with the local SAPS to stablish standard operating procedures for the control and/or removal of loiterers at the construction site. Ensure that ommunity members are aware of the possible results of loitering before construction starts									
	degree of impact on				N/A							
	irreplaceable resources:	14	toilet facilities	on site are not well		n lead to adver	se health impacts to th	a surrounding a	nmunities .			
	Nature of impact: with	1	toilet facilities	on site are not wel	1 managed, these car	n lead to adver	se health impacts to the	- surrounding C	Medium to high			
	without	1	1	6	3	24	Low	-	Medium to high			
Health Impacts as a result of exposure to sewage from construction camps and on construction camps	degree to which impact can be reversed:	 Pit latrines a must be suffic The toilets s done through shall be service 	are prohibited o cient for all work hall be emptied measures such ted on a regular	n the construction ers at a ratio of 1 and cleaned regul as covering the gro	toilet to 15 persons a larly and the contrac ound with a water pr ecessary replaced.	mobile or port and provided w tor shall ensure	table toilets shall be use	ed. This can be				
	degree of impact on irreplaceable resources: Nature of impact:	Waste on	site can hecom	e a nuisance for co	N/A	and on farms a	nd also pose a danger t	o the health of	neonle and animals			
	Nature of impact:	waste on	i site can becom	e a nuisance for co	onimunity members	anu on iainis a	nu also pose a danger t	o the health of	people and animals			
	with without	1	2	2	3	2 15	Low	-	High			
Health Impacts as a result of exposure to waste (domestic and industrial)	degree to which impact can be reversed: degree of impact on irreplaceable resources:	Littering on Fines could Waste shall overflowing. 1	site should be p be implemented be collected at The containers v	rohibited and the I for littering" regular intervals in	ECO should inspect to sealed containers the	his nat will remove	d from site and camps aste shall be separated		High			
	Nature of impact:	Where cons	truction worker	s are infected with	n infectious diseases, area within whic		passed on to the commi undetaken	unity members	or farm workers in the			
	with	1	1	2	2	8	Low	-	Low			
	without	2	1	6	3	27	Low	-	Low			
Health impacts from construction sites and camps as a result of infectious diseases	degree to which impact can be reversed:	workers and c "Condoms s and communi approached w Local wome job creation o f having relai Access at th construction v Other diseas	communities as hould be distrib ty members are vith the necessa n who may forn in the project as tionships with c e construction s village.	well. uted by placing th aware of the avair yr cultural sensitiv n relationships witl this will result in t onstruction worke ite should be cont	em at centrally locat lability and location ity". h construction worke them becoming finan rs in return for finan	ed points and bot condoms. The ers should be encially indepencial favours. It workers from	uld be directed at all co by ensuring that constru- te distribution of condo impowered through me dent and in turn reduce either visiting and/or lo	uction workers ms should be asures such as their likelihood				
	degree of impact on irreplaceable resources:				N/A							

Conduct of construction	Nature of impact:					ors and comm			tive actions can arise
	with	2	1	2	2	10	Low	-	Medium to high
workforce; Good	without	2	1	6	4	36	Medium	-	Medium to high
relationships between community members/ farm workers and Eskom Construction workers can result in issues such as sexual misconduct and the spread of sexually transmitted diseases	degree to which impact can be reversed:	permission fr • An Environr	om the site off mental Control	icer/ Environmenta	l Control Officer (ECC be appointed to ens	D)	onnel are to enter the s		
	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:			These can result	from factors such as	differences in	beliefs and cultural ba	ackgrounds	
	with without	2 2	1	6	2	10 36	Low Medium	-	Medium Medium
Conduct of construction workforce; Bad relationships between community members/ farm workers and Eskom Construction workers leading to violence	degree to which impact can be reversed:	In the Envir permission fr An Environr way. A fining Liasing with can be avoided.	onmental Mar om the site off mental Control system for nor the local policed	nagement Plan (EMF ficer/ Environmenta Officer (ECO) must n-compliance must te and having securi	P) ,state that no unau Il Control Officer (ECC be appointed to ens be set in place; ity personnel on the	uthorised person D) ure contractor site will ensure	onnel are to enter the seconduct themselves that any possible eru • As far as poseen the locals and co	in an appropriate ption of violence sible, locals	The state of the s
	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:	Material car	n be stolen fro	m construction site		the route espec	cially as material used eration	in powerlines is o	ften stolen even along
	with without	1 2	1	0 8	1 4	2 44	Low Medium	-	Medium Medium
Theft of material from camps and along construction sites	degree to which impact can be reversed:	security person fence shall be shadecloth ca practicable. S • In addition	onnel. The fend inspected on in be attached torage facilitie to the above, a	ce shall be construct a daily basis and an to the fence and sin s shall be lockable.	ted of high quality m y damages should be milar to the fence, sh es entering or leaving	aterial bearing e fixed as soon nall be inspecte	olled through a lockat the SABS mark. Furth as it is practicable. To d daily and fixed as so ion camp shall be subj	ermore, the increase security, on as it is	
	degree of impact on irreplaceable resources:	It is possible	that land own	ars ag ladge owners	game farmers own	ers for whom y	vicual impacts are impe	auto at to the sin live	
	Nature of impact:	it is possible	that land Own	ers eg louge owners	, game ranners own				lihaads will annose th
	with	2				project		ortant to their live	lihoods will oppose th
Nogativo attitudos towards	without	2	1	2	2 3	10	Low	-	Medium
the project and the formation of community	without degree to which impact can be reversed:	can contact s	1 there is ongoi	6 ng communication ve queries or comme	3	10 27		- : -	
the project and the formation of community groups, NGO's, in response	degree to which impact can be reversed: degree of impact on irreplaceable resources:	Ensure that can contact s	there is ongoi	6 ng communication v re queries or common the project.	3 with the affected par ents about the proje	10 27 Tities and provident	Low Low de contact details of pe	ersons that they	Medium
the project and the formation of community groups, NGO's, in response	degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact: with	Ensure that can contact si Highlight th	there is ongoin hould they have benefits of the benefit of the b	6 ng communication re queries or communication re project. This would	3 with the affected parents about the projection N/A be expected from la	10 27 tries and provident	Low Low de contact details of pe	ersons that they	Medium Medium Medium
the project and the formation of community groups, NGO's, in response to the project;	degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact:	Ensure that can contact si Highlight the Highligh	there is ongoin hould they have benefits of the benefits of th	This would 2 6 ation with landown	with the affected parents about the project N/A be expected from la 2 4 ers in regards to program as a series about the project necessary and the project necessary as a series are necessary and necessary as a series are necessary and necessary and	ndowners who	Low Low de contact details of pe are opposed to the pi Low Medium	ersons that they	Medium Medium
the project and the formation of community groups, NGO's, in response to the project; Land owners denying contractors access to their	degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact: with without degree to which impact	Ensure that can contact si Highlight the Highligh	there is ongoin hould they have benefits of the benefits of th	This would 2 6 ation with landown	with the affected parents about the project N/A be expected from la 2 4 ers in regards to program as a series about the project necessary and the project necessary as a series are necessary and necessary as a series are necessary and necessary and	ndowners who	Low Low de contact details of personal details	ersons that they	Medium Medium Medium
the project and the formation of community groups, NGO's, in response to the project; Land owners denying contractors access to their	degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact: with without degree to which impact can be reversed: degree of impact on	Ensure that can contact si Highlight the Highligh	there is ongoi hould they have benefits of the	This would 2 6 ation with landowneand owners are info	with the affected parents about the project N/A be expected from la 2 4 ers in regards to programed of the constru	ndowners who 8 36 dedures for ent	Low Low de contact details of personal details	roject	Medium Medium Medium Medium Medium
the project and the formation of community groups, NGO's, in response to the project; Land owners denying contractors access to their	degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact: with	Ensure that can contact si Highlight th 1 1 There must Eskom mus	there is ongoin hould they have benefits of the benefits of th	This would 2 6 ation with landowneand owners are info	with the affected parents about the project N/A be expected from late 2 4 ers in regards to programed of the constrution N/A g the clearing of the 2	ndowners who 8 36 dedures for entiction dates as	Low Low de contact details of per Low Medium ering onto farms well as dates for maint	roject	Medium Medium Medium Medium Medium Medium Medium
the project and the formation of community groups, NGO's, in response to the project; Land owners denying contractors access to their	degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact:	• Ensure that can contact si • Highlight the can contact si • Eskom mus • Eskom mus 1 1 • Ensure that • Where poss	there is ongoin hould they have benefits of the benefits of th	This would 2 6 ation with landown and owners are info	aywith the affected parents about the project N/A be expected from la 2 4 ers in regards to procormed of the construction	ndowners who 8 36 dedures for entiction dates as powerline corr 8 40 with no crops undary of the 1 sure that const whe construction the construction of the const	Low Low de contact details of per de are opposed to the pr Low Medium ering onto farms well as dates for maint	roject tenance nstruction of the - of crops en the land is	Medium Medium Medium Medium Medium Medium
formation of community groups, NGO's, in response to the project; Land owners denying contractors access to their properties	degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact: with without	• Ensure that can contact si • Highlight the can contact si • Eskom mus • Eskom mus 1 1 • Ensure that • Where poss	there is ongoin hould they have benefits of the benefits of th	This would 2 6 ation with landown and owners are info	with the affected parents about the project N/A be expected from la 2 4 ers in regards to procormed of the construing the	ndowners who 8 36 dedures for entiction dates as powerline corr 8 40 with no crops undary of the 1 sure that const whe construction the construction of the const	Low Low de contact details of per Low Medium dering onto farms well as dates for maint didor and during the co Low Medium dering the cost of the	roject tenance nstruction of the - of crops en the land is	Medium Medium Medium Medium Medium Medium Medium

	with	1	1	2	2	8	Low	-	Medium to high
	without	1	3	6	4	40	Medium	-	Medium to high
Loss of land leading to economic losses	degree to which impact can be reversed:	 Discuss with as some activity 	land owners th	at the loss of som p farming can still	e land may be tempo	orary and will o verline after co	arm to lessen the loss o nly be during the const nstruction has ended; i	ruction phase	
	degree of impact on irreplaceable resources:	Where the le	oss of land is pe	rmanent, Eskom s	hould discuss compe	ensation with la	ndowner		
	Nature of impact:				Construction car				
	with without	1	1	2 8	3	8 30	Low	-	Medium to high Medium to high
Impacts on farming activities such as sowing, harvesting, and fire management programmes leading to economic losses	degree to which impact can be reversed:			re this happens, i		ing, construction	activity on farms. In the on can occur after this h ruction		
	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:				in lead to conflicts w	ith community	members and farmers		
	with without	1	1	6	3	4 24	Low		Medium to high Medium to high
Damage to farm infrastructure e.g. irrigation equipment, gates, fences	degree to which impact can be reversed:	Where poss is likely to be fixed. Where poss powerline rou	incular to right						
	degree of impact on irreplaceable resources:								
	Nature of impact:						e can be higher on farr	ns where Rhino	
	with without	1	1	10	4	16 48	Low Medium	-	Medium to high Medium to high
Security concerns as a result of poaching of game, stock theft and crop theft	degree to which impact can be reversed:	Construction Where poss construction. Land owner leaving the pr							
	degree of impact on irreplaceable resources:		The	impact can be hig	h where endangered	d species such a	s Rhino occur		
	Nature of impact:	The mer	e presence of co	ontruction workers	s in communities and	d especially on f	arms can lead to unea	se and people n	nay feel threatened
	with without	1 2	1	2 8	2 3	8	Low Medium	-	Medium to high Medium to high
Security as a result of the presence of workers on farms and communities	degree to which impact can be reversed:	Advice lande Upon arrivir respectively Ensure that logos and a ph Construction inspect these The landown on site. provide the to report any	owners and com- ng in a communiconstruction we notograph of the n workers should be all landowners and suspicious behaviors and company to the communication of the communication	nmunity members ity or farm, worker or farm, worker or kers are easily id e worker. Construid also carry their lillowed to check the community memaviour on their processity or face in their processity.	lentifiable by construction vehicles must a dentity documents veidentification cards	of workers exper community leads diction uniform valso be marked with them and the sand note the sand onte the sand roote of which contributes are sand on the sand of which contributes are sand of which contributes are sand on the sand of which contributes are sand on the sand of which contributes are sand of which contributes are sand on the sand of which contributes are sand of which contrib	ce dates cted er and farm owners or i with logos and identific he land owner should t names of construction i act details of Eskom and at seem to be unautho	eation cards with the allowed to workers present d the local SAPS	
	degree of impact on irreplaceable resources:				N/A				
	Nature of impact: with	1	Construction 1	sites are highly ha	arzadous environmer 1	nts and the safe	ety of people and anima	als can be comp	omised Medium
	without	1	1	6	2	16	Low	-	Medium
Safety of community members/farm workers/animals	degree to which impact can be reversed:	place near the • Liase with co possible dang	construction si ommunity leade ers of moving cl	ites ers/farm owners to lose to the constru	o ensure that they wa	arn community	languages, placed in a c members/farm emplor at of construction work	yees of the	

	degree of impact on irreplaceable resources:				N/A								
	Nature of impact:		It is possib	alo that accors rou	tos can ha of such no	aar stata that m	aintenance of the pow	orling is not nos	ciblo				
	with	1	1	2	2	8	Low	-	Medium to high				
	without	1	4	8	4	52	Medium	-	Medium to high				
Poor maintenance of the power line access roads: conflict between Eskom	degree to which impact can be reversed:	• Put a firm n	egotiated contra	act in place during	the operational pha	se							
and the landowners on whose responsibility it is to do maintenance on these roads. Farmers use it more often but yet expect Eskom to pay for all maintenance	degree of impact on				N/A								
	Nature of impact:	The pres	ence of powerli	nes particularly in	tourist attractions ca	an result in tour	ists no longer visiting th	ne area as their	views will be spoilt				
Loss of a sense of	with	1	1	2	2	8	Low	-	Medium to high				
place/income on game	without	1	1	8	Δ	40	Medium		Medium to high				
farms – Tourists want to see "Africa" and the power line can disturb the rustic African setting;		Plan constru Choose those	1 1 8 4 40 Medium - In construction in those parts so that hunting season is avoided; cose those corridors that will have the least impact on the gaming industry; nstruction camps should not be placed in or close to game farm areas										
	degree of impact on irreplaceable resources:												
				Operationa									
Potential Impact	Mitigation	Extent (E)	Duration (D)	Magnitude (M)	Probability (P)		ignificance :(E+D+M)*P)	Status (+ve or -ve)	Confidence				
	Nature of impact:							· · · · ·	tted on some properties				
								23 Deing commi					
erceived electromagnetic fields impacts on humans and animals during the	with without	1	3	2	1	6 20	Low		Medium Medium				
	degree to which impact can be reversed:	Inform com Ensure that communities	1 5 4 2 20 Low - Inform communities and landowners about the perceived impacts of powerlines Ensure that there are no developments below the powerline so that although adverse impacts are uncertain, immunities are not paces at risk. On farms ensure that no buildings either for human or animal habitation are placed below powerlines										
	degree of impact on irreplaceable resources:		N/A										
	Nature of impact:	The pres	ence of powerli	nes particularly in	tourist attractions ca	an result in tour	ists no longer visiting th	he area as their	views will be spoilt				
Loss of a sense of	with	1	1	2	3	12	Low	-	Medium				
place/income on game	without	3	4	8	4	60	Medium	-	High				
farms – Tourists want to see "Africa" and the power line can disturb the rustic African setting;	degree to which impact can be reversed:		Plan maintenance so that hunting season is avoided Choose those corridors that will have the least impact on the gaming industry										
	degree of impact on irreplaceable resources:				N/A								
	Nature of impact:	It is possible	that access rou	ites can be of such	n poor state that mai	ntenance of the	power line is not possi	ible					
Poor maintenance of the	with	1	1	2	2	8	Low	-	Medium to high				
power line access roads:	without degree to which impact	1	4	8	4	52	Medium	-	Medium to high				
conflict between Eskom and the landowners on	can be reversed:				N/A								
whose responsibility it is to do maintenance on these roads. Farmers use it more often but yet expect Eskom to pay for all maintenance		Put a firm neg			he operational phase								
	Nature of impact:						sult and in turn electric	ty outages may					
	with without	4	5	6	2	10 60	Low Medium	-	Medium to high Medium to high				
Import of the control	without	4	3	0	4	00	iviedium	<u> </u>	wedium to mgn				
Impact of the power lines on aircraft as there are airports within the study area; one is the Louis Trichardt airport and the other is for light aircraft on the road towards Waterpoort from Louis Trichardt	degree to which impact can be reversed:	issue; • Consult legi: • Ensure that	slative restrictio powerlines are	ons and possible pe clearly visible to a	ermit application.		vide information on ser	iousness of this					
	degree of impact on irreplaceable resources:				N/A								
Daniel I	Nature of impact:					ead to economic			I				
Decrease in property values and number of	with without	2	3 5	6	3	8 39	Low Medium	-	Medium to high Medium to high				
visitirs to lodges and other	degree to which impact						· ·	ant Carriell	carani to ingli				
areas that are popular with		vegetation	i can be used to	screen the power	illies and other meas	sures can be dis	cussed with Visual Impa	act Specialist					

tourists due to the visual impacts of powerlines	degree of impact on irreplaceable resources:	N/A	
	Nature of impact:	The presence of construction workers can result in the treat of safety and can possibly lead to actual crimes being commit	ted on some properties
	with without	1 1 2 2 8 Low - 1 1 4 4 24 Low -	Medium to high High
Security issues as a result of the presence of maintenance workers on properties	degree to which impact can be reversed:	Ensure that construction workers are easily identify identified by construction clothes with logos and identification cards with photographs. The landowner should be allowed to check the identification cards and note the names of maintenance workers present on site. Even with mitigation however, farmers may still feel unsafe on their properties; liase with landowners to advice them on the dates of construction of the powerline on his propoerty as well as informing them about the number of personell expected, the landownwer can also be provided with contact details of Eskom to report any unacceptable behaviour on his site as well as the presence of what seem to be unathorised persons	
	degree of impact on irreplaceable resources:	The impact can be high where endangered species such as Rhino occur	
	Nature of impact:	This can result in maintenance not occuring	Is a - dt
	with without	1 1 2 2 8 Low - 1 1 8 4 40 Medium -	Medium High
Land owners denying contractors access to their properties	degree to which impact can be reversed:	Eskom must liase with farmers in regards to procedures for entering onto farms. Both Eskom and farmers must agree on the procedures.eg it can be agreed that, farmers must not to change locks to gates without informing Eskom, and where necessary, providing them with spare keys for easy access to their properties during maitenance. Despite this, the Landowner nust still be informed of when maintanence will take place on the route on his property	
	degree of impact on irreplaceable resources:	N/A	
	Nature of impact:	This is a high probability	Modium to high
	with without	1 1 0 1 2 Low - 1 1 2 2 8 Low -	Medium to high Medium to high
Poaching of game as well as stock theft and theft of crops	degree to which impact can be reversed:	As maintenance will only occur once in 1 or 2 years (depending on Eskom) the likelihood for activities such as poaching will be minimal as contractors will only be on site for a short period and may not have the time to plan a theft of stock or poaching of game.	
	degree of impact on irreplaceable resources:	N/A	
	Nature of impact: with	During the operational phase, impacts on farm activities are likely to be very minimal 1 1 0 1 2 Low -	Medium to high
	without	1 1 2 1 4 Low -	Medium to high
Impact on farming activities such as sowing, harvesting, and fire management programmes leading to economic losses	degree to which impact can be reversed:	As maintenance during the operational phase is of a shorter duration than construction, the impacts on these activities will be for a significantly shorter duration, but must at all costs be avoided. This can be through measures such as undertaking maintenece during seasons when there is likely to be high activity on farms.	
	degree of impact on irreplaceable resources:	N/A	
	Nature of impact:	During the operational phase, impacts on activities and on guests to lodges and other tourist destniations are likely to be will only involve maitenance 1 1 0 1 2 Low -	e very minimal as they Medium to high
Impact on farming activities such as hunting in	without	1 1 2 1 4 Low -	Medium to high
game farms leading to economic losses. Impacts can also be on guests in lodges leading to economic losses	degree to which impact can be reversed:	 In game farms, maintenance can be undertaken outside the hunting season. In lodges, maintenance can be undertaken during low peak seasons and this can also be extended to weekdays when guests are likely to be fewer. 	
	degree of impact on irreplaceable resources:	N/A	
	Nature of impact:	An increased voltage will ensure that activities that were not able to take place will be possible	
	without	3 5 8 5 80 High +	Medium
Increase in the voltage stability	degree to which impact can be reversed:	N/A	
	degree of impact on irreplaceable resources:	N/A	
	Nature of impact: with	Reliable electricity supply is a positive impact that will improve activities such as touriam in the Makhado Local 3 4 2 4 36 Medium +	Municipality Medium
	without	2 1 6 4 36 Medium +	Medium
An assurance of a reliable electricity supply	degree to which impact can be reversed:	N/A	
	degree of impact on irreplaceable resources:	N/A	
	Nature of impact: with	In order to grow the economy of the Makhado Local Municipality, electricity is vital	
Increase of electricity	without	3 5 8 5 80 High +	Medium
supply making it available	degree to which impact can be reversed:	N/A	

and other industries. The increase in electricity can also allow for the undertaking of other activities that may have been that may not have been possible prior to the improved elect.ricity supply	degree of impact on irreplaceable resources:				N/A							
	Nature of impact:	The absence	ce of backlogs in	electricy connect	ions can imply that a	activities that ca	n only take place whe	ere electicity is pr	esent will be possible			
	with without	3	5	8	5	80	High	+	Medium			
No more backlogs in electricity Connections	degree to which impact can be reversed:				N/A		· ·					
	degree of impact on irreplaceable resources:				N/A							
	Nature of impact: with		1				1					
The provision of electricity	without	3	5	8	5	80	High	+	Medium			
to services such as health facilities will cease	degree to which impact can be reversed:				N/A							
	degree of impact on irreplaceable resources:				N/A							
	Nature of impact: with		Tr	ne presence of ele	ctricity to rural areas	will improve ti	ne lives of many who l	live in poverty				
Electricity will be available to numerous rural	without degree to which impact	3	5	8	5 N/A	80	High	+	Medium			
settlements that do not have this service	can be reversed: degree of impact on irreplaceable resources:				N/A							
Potential Impact	Mitigation	Extent (E)	Duration (D)	ecommissio Magnitude (M)	Probability (P)		iignificance =(E+D+M)*P)	Status (+ve or -ve)	Confidence			
_	Nature of impact: with	Creating empl	oyment expecta	ations for job seel 0	kers 1	2	Low	-	Medium to high			
	without	1	2	2	2	10	Low	-	Medium to high			
Influx of job seekers	degree to which impact can be reversed:	Communica Ensure that of jobs for cor Where the the communit Where poss decommission community m Have clear r establish stan	I dentify possibilities and creation of a liaison desk 4 months beforedecommissioning starts; • Communication strategy well in advance of decommissioning start. • Ensure that there is a Community liaison officer from affected communities and together with them study possibilities of jobs for community members e.g., food vendors • Where the jobs have been identified, these must also be formalised through issuing of permits to avoid conflicts within he community and to avoid loitering. • Where possible, ensure that all interested community members get an opportunity to work on the project during lecommissioninge.g. each community member can be allocated a period of working and when this period elapses, other ommunity members should be given an opportunity to also work and generate some impact. • Have clear rules and regulations for access to the camp / site office to control loitering. Consult with the local SAPS to establish standard operating procedures for the control and/or removal of loiterers at the construction site. Ensure that community members are aware of the possible results of loitering before construction start									
	degree of impact on irreplaceable resources:				N/A							
	Nature of impact: with	If	toilet facilities	on site are not we	II managed, these ca	n lead to adver	se health impacts to t	he surrounding c	ommunities Medium to high			
Health Impacts as a result	without	1	1	6	3 undings to relieve th	24 emselves	Low	-	Medium to high			
of exposure to sewage from construction camps	degree to which impact can be reversed:	• Pit latrines a	re prohibited o	n the construction		y mobile or por	table toilets shall be u	sed and these				
and on construction camps	degree of impact on irreplaceable resources:	must be sume	actic for all work	cers at a ratio or 1	N/A	ana providea v	nui toilet paper.					
	Nature of impact: with	Where cons	truction worker	rs are infected with	h infectious diseases	, these can be p	bassed on to the comm	nunity members	or farm workers in the			
Health impacts from	without	2	1	6	3	27	Low	- construction				
construction sites and camps as a result of	degree to which impact can be reversed:		ommunities as		aign snould be laund	neu. These sho	uld be directed at all o	Construction				
infectious diseases	degree of impact on irreplaceable resources:				N/A							
	Nature of impact:	It is possibl	e that because	of good relationsh	ips between contact	tors and commi	unity members, negat	ive as well as pos	itive actions can arise			
Conduct of construction workforce; Good	with without	2 2	1 1	2 6	2 4	10 36	Low Medium	-	Medium to high Medium to high			
relationships between community members/ farm workers and Eskom Construction workers can result in issues such as sexual misconduct and the spread of sexually	degree to which impact can be reversed:	In the Environment of the Property of the Environment of the Environm	onmental Mana; om the site offic nental Control C	gement Plan (EMF er/ Environmenta	r) ,state that no unau I Control Officer (ECC be appointed to ens	uthorised perso O)	nnel are to enter the s					
transmitted diseases	degree of impact on irreplaceable resources:				N/A							
	Nature of impact:			These can result	from factors such as	differences in	beliefs and cultural ba	ckgrounds				

	with	2	1	2	2	10	Low	-			
Conduct of construction workforce; Bad relationships between community members/ farm workers and Eskom Construction workers leading to violence	without degree to which impact can be reversed:	permission fromAn Environmway. A fining s	om the site offic nental Control C system for non- the local police	er/ Environmental Officer (ECO) must l compliance must b	Control Officer (ECO be appointed to ensu be set in place;) re contractors	Medium nnel are to enter the sit conduct themselves in that any possible erupt	an appropriate			
	degree of impact on irreplaceable resources:				N/A						
	Nature of impact:	Material ca	n be stolen fror	n the sites where o	decommissioning is ta	aking place as r	naterial used in electric	city is often the	targeted by criminals		
Theft of material from	with	1	1	0	1	2	Low	-	Medium		
camps and along construction sites	without degree to which impact	Fencing shal	l be erected arc	8 ound the construct	4 ion camp and access	44 shall be contro	Medium lled through a lockable	gate and	Medium		
	can be reversed:	security perso	nnel. The fence	shall be construct	ed of high quality ma	terial bearing t	he SABS mark. Further	more, the			
	degree of impact on irreplaceable resources:	It is possible to	hat land a		6			tont to their live	lib and a will a proper the		
	Nature of impact: with	It is possible t	nat land owner	s eg lodge owners, 2	game farmers owne	rs for whom vi	Low	tant to their live	lihoods will oppose the Medium		
Negative attitudes towards	without	2	1	6	3	27	Low	-	Medium		
the project and the formation of community groups, NGO's, in response to the project;	degree to which impact can be reversed:	can contact sh		queries or comme	of the affected part		e contact details of per	sons that they			
	degree of impact on irreplaceable resources:				N/A						
	Nature of impact:			This would I	be expected from lan	downers who	are opposed to the pro	ject			
	with without	1	1	2	2	8	Low	-	Medium Medium		
Land owners denying contractors access to their properties	degree to which impact can be reversed:	There must be communication with landowners in regards to procedures for entering onto farms Eskom must ensure that land owners are informed of the construction dates as well as dates for maintenance									
	degree of impact on irreplaceable resources:		N/A								
	Nature of impact:		powerline								
	with	1 1	1 3	2 6	2 4	8 40	Low	-	Medium to high		
Loss of crops leading to economic losses	without degree to which impact can be reversed:	Ensure that	construction tal	kes place when the	land is fallow and w	ith no crops	Medium rm to lessen the loss o	f crops	Medium to high		
	degree of impact on irreplaceable resources: Nature of impact:		case roads								
	with	1	1	2	2	8	s well as during the cor Low	-	Medium to high		
Loss of land leading to economic losses	without degree to which impact can be reversed:						Medium rm to lessen the loss o nly be during the constr		Medium to high		
	degree of impact on irreplaceable resources:	Where the le	oss of land is pe	rmanent, Eskom sł	hould discuss comper	nsation with la	ndowner				
	Nature of impact: with		Construction can disturb activities on farms								
Impacts on farming		1	1 1	2					Madium to high		
	without	1	1 1	2 8	Construction can 2 3	disturb activiti 8 30	Low Low	-	Medium to high Medium to high		
activities such as sowing, harvesting, and fire management programmes leading to economic losses	without degree to which impact can be reversed:	1 Construction	1 should not take	8 place during seaso re this happens, ir	2 3 ons when there is like	8 30 ely to be high a	Low Low ctivity on farms. In the n can occur after this h				
harvesting, and fire	degree to which impact can be reversed: degree of impact on irreplaceable resources:	1 Construction	1 should not take	8 place during seass re this happens, ir and fire manag	2 3 ons when there is like the case of harvestir ement can take place N/A	8 30 ely to be high a ng, constructio e before constr	Low Low ctivity on farms. In the n can occur after this h uction				
harvesting, and fire management programmes	degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact:	1 Construction s construction	1 should not take can occur befo	8 place during seass re this happens, ir and fire manage	2 3 ons when there is like the case of harvestir ement can take place N/A	8 30 ely to be high a ng, constructio e before constr	Low Low ctivity on farms. In the n can occur after this huction		Medium to high		
harvesting, and fire management programmes	degree to which impact can be reversed: degree of impact on irreplaceable resources:	1 Construction construction 1 1 1 • Where poss is likely to be if fixed. • Where poss	1 should not take can occur before the can occur be	8 place during seass re this happens, ir and fire manage This cai 2 6 uld be placed on the sent with the excep	2 3 ons when there is like the case of harvestilement can take place N/A n lead to conflicts wit 1 3 see edges of farm bour	B 30 ely to be high a a ng, constructio before constr th community i 4 24 andaries and alo and gates which	Low Low ctivity on farms. In the n can occur after this h uction	as taken place s infrastructure	Medium to high Medium to high Medium to high		
harvesting, and fire management programmes leading to economic losses Damage to farm infrastructure e.g. irrigation equipment,	degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact: with without degree to which impact	1 Construction construction 1 1 1 • Where poss is likely to be if fixed. • Where poss	1 should not take can occur before the can occur be	8 place during seass re this happens, ir and fire manage This cai 2 6 uld be placed on the sent with the excep	2 3 ons when there is like in the case of harvestii ement can take place N/A n lead to conflicts wit 1 3 one edges of farm bour otion of farm fences a coved for the duration	B 30 ely to be high a a ng, constructio before constr th community i 4 24 andaries and alo and gates which	Low Low ctivity on farms. In the n can occur after this huction members and farmers Low Low ng any existing roads a n if damaged by contact	as taken place s infrastructure	Medium to high Medium to high Medium to high		
harvesting, and fire management programmes leading to economic losses Damage to farm infrastructure e.g. irrigation equipment,	degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact: with without degree to which impact can be reversed:	1 Construction construction 1 1 1 • Where possi is likely to be ifixed. • Where posspowerline rou	1 should not take can occur before the can occur before the can occur before the can occur before the can be altered to take the can occur before the can occur be	8 place during seasere this happens, ir and fire manage This cal 2 6 uld be placed on the sent with the exceptivity the season with the exceptivity and the danger of the season with the danger of the season with the season with the exceptivity and the danger of the season with the season with the exceptivity and the season with th	2 3 ons when there is like in the case of harvestin ement can take place N/A n lead to conflicts with 1 3 are edges of farm bour otion of farm fences a oved for the duration nage to the infrastructure.	B 30 ely to be high a ng, constructio before constr th community i 4 24 andaries and alc and gates which in of construction	Low Low ctivity on farms. In the n can occur after this huction members and farmers Low Low ng any existing roads a n if damaged by contact	as taken place - as infrastructure ctors should be	Medium to high Medium to high Medium to high		

Substation	degree to which impact can be reversed:	Construct th	e powerlines									
new Bokmakirie (Nzhelele)	without	4	5	8	3	51	Medium	-	Medium to high			
Taborsubstation to the	with	2	1	2	1	5	Low	-	Medium to high			
Not constructing the Powerlines linking the	Nature of impact:	Northern Gri	d Network due	to being operated okmakirie (Nzhelele	beyond its reliability	r. There is there r to strengthen	ding the Tabor and Spo fore a need for a new the northern grid or t lOkV infrastructure	powerline Powe	rlines linking the Tab			
	Mitigation	Extent (E)	Duration (D)	Magnitude (M)	Probability (P)		gnificance (E+D+M)*P)	Status (+ve or -ve)	Confidence			
		Futant	Duration	No-Go Alte		į c	gnificance	Ctatus				
network. In turn numerous existing developments such as lodges and other tourist attractions can be improved.	degree of impact on irreplaceable resources:				N/A							
Increase in power supply and in the stability of the	without degree to which impact can be reversed:	3	4	6	4 N/A	52	Medium	+	Medium			
	with	3	4	6	4	52	turn an improved eco	+	Medium			
	irreplaceable resources: Nature of impact:	An increase in the power supply and in the stability of the network would be vital to the Makhado Local Municipality as a										
imact on the economic growth of the Makhado Municipality	can be reversed: degree of impact on	tower type with the least adverse visual impact N/A										
resulting in economic losses especially for tourism sector in turn	with without degree to which impact	1 3 Liase with	2 4 Visual Impact sp	2 6 pecialist to get the	2 3 best mitgation meas	39 sures; other sug	Low Medium gested measures wou	- Id be to use a	Medium to high Medium to high			
Loss of a sense of place	irreplaceable resources: Nature of impact:	Tourist	Tourists visit places to relax and be immersed in nature and the presence of powerlines can therefore spoil this experi									
e tourism industry of the unicpality and that of the country at large	can be reversed: degree of impact on	decommisioning phases as well as during maintenance as an actvity of the operational phase The impact will high where endangered species such as Rhino occur										
Poaching of game impacting on the loss of ame and in turn affecting	with without degree to which impact	2 5	3 5	4 8	3 4	27 72	Low High enlosures during the o	-	Medium to high High			
Potential Impact	Mitigation Nature of impact:	Extent (E)	Duration (D) It is highly likely	Magnitude (M) y that theft of game	Probability (P) e and stock can occu	(S=	gnificance (E+D+M)*P) e can be higher on fari	Status (+ve or -ve) ms where Rhino	Confidence is present			
oads. Farmers use it more iten but yet expect Eskom	degree of impact on irreplaceable resources:			Cumulative	N/A Impacts							
and the landowners on hose responsibility it is to do maintenance on these	degree to which impact can be reversed:	• Put a firm ne	egotiated contra	act in place during	the operational pha	se						
power line access roads: conflict between Eskom	with without	1	1 4	8	2 4	8 52	Low Medium	-	Medium to high Medium to high			
Poor maintenance of the	irreplaceable resources:		It is possi	ble that access rou	N/A tes can be of such p	oor state that m	naintenece of the pow	erline is not pos	sible			
members/farm workers/animals	degree to which impact can be reversed: degree of impact on		the construction si			gnage, in local l	anguages, placed in a	conspicuous				
Safety of community	with without	1 1	1	2 6	1 2	4 16	Low Low	-	Medium Medium			
	degree of impact on irreplaceable resources: Nature of impact:				N/A							
presence of workers on ofarms and communities	degree to which impact can be reversed:	Advice lando	owners and com	nmunity members	about construction a	and maintenanc	e dates					
ecurity as a result of the	with without	1 2	1	2 8	2 3	8 33	Low Medium	-	Medium to high Medium to high			
	Nature of impact:	The mere	e presence of co	ontruction workers	in communities and	especially on fa	arms can lead to unea	ase and people m	nay feel threatened			
	degree of impact on irreplaceable resources:		The	impact can be high	h where endangered	species such as	Rhino occur					
·	can be reversed:	leaving the pro		it guards to crisure	that construction w	orners and the	r equipment are inspe	eccu prior to				

	degree of impact on irreplaceable resources:	N/A								
	Nature of impact:	The voltage i	s currently unst		ult in impacts such a the inability to unde		pment being shut dow tvities on farms etc.	n leading to effe	ects such as loss of data	
	with	1	1	2	1	4	Low	-	Medium	
No increase in the voltage	without	3	5	8	3	48	Medium	-	Medium	
stability	degree to which impact can be reversed:			Ensu	re that the voltage i	s stabilised				
	degree of impact on irreplaceable resources:				N/A					
No increase and assurance	Nature of impact:						. These can be in the aยู rth of the Makhado Mu			
of electricity supply making		1	1	2	1	4	Low	-	Medium	
it unavailable for	without	3	5	8	4	64	High	-	Medium	
agriculture, tourism and other industries as well as allowing for the	degree to which impact can be reversed:	Increase elec	tricity supply th	rough measures s	uch as the constructi are well maitain		sed power line and en	sure that these		
activities that may not have been possible before. The absence of an increase in electricity may also hinder the undertaking of other activities that may only be possible with electricity supply	degree of impact on irreplaceable resources:				N/A					
	Nature of impact:	The backlog	gs are caused by	factors such as a	lack of funds and sta impossible when th		ne rendering of service icity available.	s that require t	he use of electricity is	
	with	2	1	4	2	14	Low	-		
	without	3	4	8	4	60	Medium	-		
Continuation of backlogs in electricity connections	degree to which impact can be reversed:						This can include increa adequate material avai			
	degree of impact on irreplaceable resources:				N/A					
	Nature of impact:				ricity can result in lo				lee is a second	
Continuation of the	with without	3	5	0 10	4	72	Low	-	Medium to high Medium to hig	
inadequate provision of	degree to which impact						High rline can ensure that a	dverse impacts	Wiedium to mg	
electricity to critical services such as health	can be reversed:	THE HECESSIC	or electricity to	rentical services is	are avoided	proposed powe	inine can ensure that a	idverse impacts		
facilities	degree of impact on irreplaceable resources:				N/A					
Continuation of the	Nature of impact:						These include the cutting for the polynomial of			
unavailability of electricity	with	1	1	2	2	8	Low		Medium	
in numerous rural	without	3	5	8	4	64	High	•	Medium	
settlements	degree to which impact can be reversed:			Pro	ovide electricity to ru	ural areas				
	degree of impact on irreplaceable resources:				N/A					

Social Impacts - Alternative 1a

		Extent	Duration	Constructio Magnitude	n Phase Probability	s	ignificance	Status	- *.			
Potential Impact	Mitigation	(E)	(D)	(M)	(P)		:(E+D+M)*P)	(+ve or -ve)	Confidence			
	Nature of impact:	Material can	n be stolen from	construction sites		he route especi that are in ope	ally as material used in ration	powerlines is o	ften stolen even along			
	with	1	1	0	1	2	Low	-	Medium			
	without	2	1	8	4	44	Medium	-	Medium			
Theft of material from camps and along construction sites	degree to which impact can be reversed:	security person fence shall be shadecloth ca practicable. St • In addition to	inspected on a inspected on a in be attached to torage facilities to the above, all	shall be construct daily basis and any the fence and sin shall be lockable.	ed of high quality many damages should be nilar to the fence, sh es entering or leaving	aterial bearing t fixed as soon a all be inspected	olled through a lockable the SABS mark. Further is it is practicable. To in it daily and fixed as soor on camp shall be subjec	more, the crease security, n as it is				
	degree of impact on irreplaceable resources:											
	Nature of impact:					ers for whom vi	sual impacts are import	tant to their live				
	with	2	1	2	2	10	Low	-	Medium			
Negative attitudes towards the project and the formation of community groups, NGO's, in response to the project;	without degree to which impact can be reversed:	can contact sh		queries or comme	yith the affected par ents about the projec		e contact details of pers	sons that they	Medium			
to the project,	degree of impact on irreplaceable resources:				N/A							
	Nature of impact:			This would	be expected from lai	ndowners who	are opposed to the pro	ject				
	with	1	1	2	2	8	Low	-	Medium			
	without	1	2	6	4	36	Medium	-	Medium			
Land owners denying contractors access to their properties	degree to which impact can be reversed:	There must Eskom must										
	irreplaceable resources: Nature of impact:		oowerline									
	<u> </u>						dor and during the cons	_				
	with without	1	1	2	2	8	Low	-	Medium to high Medium to high			
Loss of crops leading to economic losses	degree to which impact can be reversed:	 Ensure that Where poss Where power fallow and with Discuss with 	Ensure that construction takes place when the land is fallow and with no crops Where possible, powerline towers should be located along the boundary of the farm to lessen the loss of crops Where power lines can't be places along property boundaries, ensure that construction takes place when the land is fallow and with no crops Discuss with land owners that the loss of land will only be during the construction phase as some activities such as crop farming can still occur below the powerline after construction has ended									
	degree of impact on irreplaceable resources:				N/A							
	Nature of impact:		Grazing land are	ea can be lost due	to clearing of land fo	r the corridor a	as well as during the cor	nstruction of acc	cess roads			
	with	1	1	2	2	8	Low	-	Medium to high			
	without	1	3	6	4	40	Medium	-	Medium to high			
Loss of land leading to economic losses	degree to which impact can be reversed:	 Discuss with as some activity 	land owners th	at the loss of some p farming can still	e land may be tempo	orary and will or verline after cor	arm to lessen the loss or nly be during the constr nstruction has ended; in	ruction phase				
	degree of impact on irreplaceable resources:	Where the le	oss of land is pe	rmanent, Eskom s	hould discuss compe	nsation with la	ndowner					
	Nature of impact:				Construction can							
	with without	1	1	2 8	3	8 30	Low	-	Medium to high Medium to high			
	without	1	1	0	3	30	LUW		INCUIUM to MgH			

Impacts on farming activities such as sowing, harvesting, and fire management programmes leading to economic losses	degree to which impact can be reversed:			re this happens, ir		ing, constructio	ctivity on farms. In the n can occur after this h uction					
	degree of impact on irreplaceable resources:		N/A									
	Nature of impact: with	1	1	This ca 2	n lead to conflicts w	ith community r	nembers and farmers	-	Medium to high			
	without degree to which impact can be reversed:	Where possi is likely to be r fixed. Where poss	Where possible towers should be placed on the edges of farm boundaries and along any existing roads as infrastructure likely to be minimum or absent with the exception of farm fences and gates which if damaged by contactors should be									
	degree of impact on irreplaceable resources:				N/A							
	Nature of impact: with	1	It is highly likely	that theft of gam 2	e and stock can occu	r. Theft of game	can be higher on farr	ns where Rhino	is present Medium to high			
	without	1	1	10	4	48	Medium	-	Medium to high			
Security concerns as a result of poaching of game, stock theft and crop theft	degree to which impact can be reversed:	 Where possi construction. 	ble, animals sho		tracking devices or		enclosures for the du					
	degree of impact on irreplaceable resources:		The impact can be high where endangered species such as Rhino occur									
	Nature of impact:		The mere presence of contruction workers in communities and especially on farms can lead to unease and people may									
	with without	2	1	2 8	3	33	Low Medium	-	Medium to high Medium to high			
Security as a result of the presence of workers on farms and communities	degree to which impact can be reversed:	Advice lando Upon arrivin respectively Ensure that I logos and a ph Construction inspect these The landowr on site. provide the to report any st	Ensure that construction workers are easily identifiable by construction uniform with logos and identification cards with gos and a photograph of the worker. Construction vehicles must also be marked Construction workers should also carry their Identity documents with them and the land owner should be allowed to spect these The landowner should be allowed to check the identification cards and note the names of construction workers present									
	degree of impact on irreplaceable resources:				N/A							
	Nature of impact:		Construction	sites are highly ha	rzadous environmer	nts and the safet	ty of people and anima	als can be compr	romised			
	with without	1	1	6	2	4 16	Low Low	-	Medium Medium			
Safety of community members/farm workers/animals	degree to which impact can be reversed:	• Ensure that in place near the • Liase with copossible danger	the construction construction sommunity leade ers of moving cl	n sites and camps ites ers/farm owners to ose to the constru	are fenced off and si ensure that they wa	gnage, in local li	anguages, placed in a commembers/farm employ	yees of the				
	degree of impact on irreplaceable resources:				N/A							
	Nature of impact: with	1	It is possi	ble that access rou 2	tes can be of such p	oor state that m	laintenece of the power	erline is not poss	Medium to high			
Poor maintenance of the power line access roads: conflict between Eskom	without degree to which impact can be reversed:	1	4	8	4 the operational pha	52	Medium	-	Medium to high			
and the landowners on whose responsibility it is to do maintenance on these roads. Farmers use it more often but yet expect Eskom to pay for all maintenance	degree of impact on				N/A							

	Nature of impact:	The pres	ence of powerli	nes particularly in	tourist attractions ca	an result in tour	ists no longer visiting t	the area as their	views will be spoilt		
Loss of a sense of	with	1	1	2	2	8	Low	-	Medium to high		
place/income on game farms – Tourists want to	without	1	1	8	4	40	Medium	-	Medium to high		
see "Africa" and the power	degree to which impact				ng season is avoided, t impact on the gam						
line can disturb the rustic African setting;	can be reversed:				r close to game farm						
	degree of impact on irreplaceable resources:			Operationa	I Phase						
Potential Impact	Mitigation	Extent (E)	Duration (D)	Magnitude (M)	Probability (P)		gnificance (E+D+M)*P)	Status (+ve or -ve)	Confidence		
	Nature of impact:	The presence	of construction	workers can resul	t in the treat of safe	ty and can possi	bly lead to actual crim	es being commit	tted on some properties		
	with without	1 1	3 5	4	2	6 20	Low Low	-	Medium Medium		
Perceived electromagnetic fields impacts on humans and animals during the operational phase	degree to which impact can be reversed:	Inform com Ensure that communities	munities and lar there are no de are not paces at	ndowners about the evelopments below trisk.	ne perceived impact v the powerline so th uman or animal hab	s of powerlines hat although adv	verse impacts are unce	ertain,			
	irreplaceable resources:	The proc	once of nowerli	noc particularly in	N/A	on recult in tour	ists no longer visiting t	the area as their	vious will be speilt		
Lancet a course	Nature of impact:	1 ne pres	ence or powerii	nes particularly in	3	12	sts no longer visiting t	ine area as trielf	Medium		
Loss of a sense of place/income on game	without	3	4	8	4	60	Medium	-	High		
farms – Tourists want to see "Africa" and the power line can disturb the rustic African setting;	degree to which impact can be reversed:			unting season is a will have the least	voided t impact on the gam	ing industry					
	degree of impact on irreplaceable resources:										
	Nature of impact:						aintenece of the pow	erline is not poss			
Poor maintenance of the	with without	1	4	2 8	4	52 52	Low Medium		Medium to high Medium to high		
power line access roads: conflict between Eskom	degree to which impact	_			N/A		, meanan		medium to mgm		
do maintenance on these roads. Farmers use it more often but yet expect Eskom to pay for all maintenance	degree of impact on irreplaceable resources:	Put a firm neg			ne operational phase		lb and in born plants				
	with	1	2	2	2	10	ult and in turn electric		Medium to high		
	without	4	5	6	4	60	Medium	-	Medium to high		
Impact of the power lines on aircraft as there are airports within the study area; one is the Louis Trichardt airport and the other is for light aircraft on the road towards Waterpoort from Louis	degree to which impact can be reversed:	issue; • Consult legi: • Ensure that	Information not available on Louis Trichardt airport. National aviation should provide information on seriousness of this saue; Consult legislative restrictions and possible permit application. Ensure that powerlines are clearly visible to aircrafts; Distribute information on the presence of new powerlines to relevant air transport organisations								
Trichardt	degree of impact on irreplaceable resources:				N/A						
Decrease in present	Nature of impact: with	1	3	4	These can le	ead to economic		_	Medium to high		
Decrease in property values and number of	without	2	5	6	3	39	Low Medium	-	Medium to high		
	degree to which impact						cussed with Visual Imp		3		
visitirs to lodges and other areas that are popular with		* egetation									
	can be reversed: degree of impact on irreplaceable resources:	regetation			N/A						
areas that are popular with tourists due to the visual	can be reversed: degree of impact on irreplaceable resources: Nature of impact:	vegetation									
areas that are popular with tourists due to the visual	can be reversed: degree of impact on irreplaceable resources: Nature of impact: with	1 1	1 1	2 4	N/A 2 4	8 24	Low Low		Medium to high		
areas that are popular with tourists due to the visual impacts of powerlines Security issues as a result of the presence of	can be reversed: degree of impact on irreplaceable resources: Nature of impact:	1 1 Ensure that c with ph maintenanc liase with lan them about	1 1 onstruction wor notographs. The e workers prese downers to adv the number of	kers are easily ider landowner should ent on site. Even w ice them on the da personell expected	2 4 ntidy identified by cc l be allowed to checi the mitigation however tes of construction of d, the landownwer cc	onstruction cloti k the identificati ver, farmers may of the powerline an also be provi		names of leir properties; well as informing ils of Eskom to	High		

	Nature of impact:				This can result in	maintenance n	ot occuring		
	with	1	1	2	This can result in	8	Low	_	Medium
	without	1	1	8	4	40	Medium	-	High
Land owners denying contractors access to their properties	degree to which impact can be reversed:	Eskom must I the procedur necessary	iase with farme es.eg it can be a , providing then	rs in regards to pro agreed that, farme m with spare keys	rs must not to chang for easy access to the	g onto farms. Bo e locks to gates eir properties du	oth Eskom and farmer without informing Es uring maitenance.Des n the route on his pro	skom, and where spite this, the	
	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:					high probabilit			1
	with without	1	1	0 2	1 2	2 8	Low	-	Medium to high Medium to high
Poaching of game as well as stock theft and theft of crops	degree to which impact can be reversed:	As maintena	ance will only oc	ccur once in 1 or 2	years (depending on	Eskom) the like	Low dihood for activities s live the time to plan a	uch as poaching	Median to high
	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:	1	1			on farm actvit	ies are likely to be ve	ry minimal	Medium to high
	with without	1	1	2	1	4	Low Low	-	Medium to high Medium to high
Impact on farming activities such as sowing, harvesting, and fire management programmes leading to economic losses	degree to which impact can be reversed:		r a significantly	shorter duration, b	out must at all costs b	e avoided. This	uction, the impacts or can be through mea: nigh activity on farms	sures such as	
	degree of impact on irreplaceable resources:								
Impact on farming activities such as hunting in	Nature of impact:	During t	he operational _I	phase, impacts on	actvities and on gue	sts to lodges an	d other tourist destn	iations are likely t	o be very minimal Medium to high
game farms leading to	without	1	1	2	1	4	Low	-	Medium to high
economic losses. Impacts	degree to which impact								
can also be on guests in lodges leading to economic	can be reversed:								
losses	degree of impact on irreplaceable resources:								
	Nature of impact: with		An i	ncreased voltage v	will ensure that activi	ties that were r	ot able to take place	will be possible	I
	without	3	5	8	5	80	High	+	Medium
Increase in the voltage stability	degree to which impact can be reversed:				N/A				
	degree of impact on irreplaceable resources: Nature of impact:	Po	liable electricity	cupply is a positiv	N/A	provo activitios	such as touriam in th	oo Makhada Local	Municipality
	with	3	4	2	4	36	Medium	+	Medium
	without	2	1	6	4	36	Medium	+	Medium
An assurance of a reliable electricity supply	degree to which impact can be reversed:				N/A				
	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:			In order to grow	the economy of the	Makhado Local	Municipality, electric	city is vital	
Increase of electricity	with without	3	5	8	5	80	High	+	Medium
supply making it available	degree to which impact				N/A				
for agriculture, tourism and other industries. The increase in electricity can also allow for the undertaking of other activities that may have been that may not have been possible prior to the improved elect.ricity supply	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:	The absenc	e of backlogs in	electricy connecti	ons can means that a	ctivities that ca	n only take place who	ere electicity is pr	esent will be possible
	with					L			
No more backlogs in electricity Connections	without degree to which impact can be reversed:	3	5	8	5 N/A	80	High	+	Medium
	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:								
The inadequate areasis's	with	2	-	_	-	00	late to		N A o elizzano
The inadequate provision of electricity to services such as health facilities will	without degree to which impact can be reversed:	3	5	8	5 N/A	80	High	+	Medium
cease	degree of impact on irreplaceable resources:				N/A				

	Nature of impact:		Th	ne presence of elec	ctricity to rural areas	will improve the	e lives of many who liv	e in poverty	_		
Electricity will be available	with without	3	5	8	5	80	High	+	Medium		
to numerous rural settlements that do not	degree to which impact can be reversed:	,	, ,	8	N/A	80	riigii	, , , , , , , , , , , , , , , , , , ,	Wedidiii		
have this service	degree of impact on irreplaceable resources:				N/A						
			D	ecommission	ning Phase						
Potential Impact	Mitigation	Extent	Duration	Magnitude	Probability		gnificance	Status	Confidence		
	Nature of impact:	(E) Material ca	(D) in be stolen from	(M)	(P) decommissioning is t		(E+D+M)*P) naterial used in electri	(+ve or -ve)	targeted by criminals		
	with	1	1	0	1	2	Low	-	Medium		
	without	2	1	8	4	44	Medium	-	Medium		
Theft of material from camps and along construction sites	degree to which impact can be reversed:	security perso fence shall be shadecloth cal practicable. St • In addition t	innel. The fence inspected on a n be attached to corage facilities o the above, all	shall be construct daily basis and any the fence and sin shall be lockable.	ed of high quality may damages should be milar to the fence, shees entering or leaving	aterial bearing the fixed as soon as all be inspected	lled through a lockable ne SABS mark. Furthe it is practicable. To ir daily and fixed as soo in camp shall be subje	rmore, the ncrease security, n as it is			
	degree of impact on irreplaceable resources:	rces:									
	Nature of impact:	impact: Crops can be lost during this phase as the activities are almost as intense as those during the construction									
	with without	1	3	6	2	8 40	Low Medium	-	Medium to high Medium to high		
Loss of crops leading to economic losses	degree to which impact can be reversed:				n the land is fallow a				Weduli to high		
	degree of impact on irreplaceable resources:				N/A						
	Nature of impact:		•	1	Decommssioning c						
Impacts on farming	with without	1	1	2 8	3	8 30	Low Low		Medium to high Medium to high		
activities such as sowing, harvesting, and fire management programmes leading to economic losses	degree to which impact	Decommssi	oning should no truction can occ	ot take place during cur before this hap	g seasons when ther	e is likely to be l harvesting, dec	high activity on farms.				
	degree of impact on irreplaceable resources:				N/A						
	Nature of impact:						nembers and farmers		lea ii		
	with without	1	1	6	3	24	Low	-	Medium to high Medium to high		
Damage to farm infrastructure e.g. irrigation equipment, gates, fences	degree to which impact can be reversed:	Where poss	sible, farm infra	structure can be m		n of constructio	n; where this is not po	ossible, the			
	degree of impact on irreplaceable resources:				N/A						
	Nature of impact:				1		can be higher on farr				
	with without	1	1	10	4	16 48	Low Medium	-	Medium to high Medium to high		
Security concerns as a result of poaching of game, stock theft and crop theft	degree to which impact can be reversed:	Decommssic Where possiconstruction.	oning should on ible, animals sho	ly take place outsiould be fitted with	de the hunting seaso tracking devices or p	n placed in secure	enclosures for the du		v		
	degree of impact on irreplaceable resources:		The	impact can be hig	h where endangered	species such as	Rhino occur				
	Nature of impact:	The mere	e presence of co	ontruction workers	in communities and	especially on fa	rms can lead to unea	se and people m	nay feel threatened		
	with	1 2	1	2	2	8	Low	-	Medium to high Medium to high		
	without		1	8	3	33	Medium	_			

Security as a result of the presence of workers on pfarms and communities	degree to which impact can be reversed:	Advice lande Upon arrivin respectively Ensure that logos and a ph Construction inspect these The landown on site. Landowners any suspicious	owners and com- ing in a communiconstruction we notograph of the n workers should her should be all and community s behaviour on	munity members ty or farm, worker or farm, worker or easily id a worker. Construct d also carry their like lowed to check the members should their property as v	about decommssion about the number of s must inform the co- entifiable by constru- tion vehicles must a dentity documents w e identification cards be provided with co- vell as the presence of to AgriSA's Protocol	of workers expected mmunity leader and ction uniform with iso be marked with them and the law and note the name intact details of Esk of what seem to be	d farm owners or m logos and identifica and owner should be es of construction w om and the local SA unauthorised	tion cards with e allowed to orkers present	
	degree of impact on				N/A				
	irreplaceable resources: Nature of impact:		As decomms	sioning involves th	ne dismatling of struc	tures, the safety of	people and animals	s can be compro	omised
	with	1	1	2	1	4	Low	-	Medium
Safety of community members/farm	without degree to which impact	Ensure that	1 the construction	6 n sites and camps	2 are fenced off and si	16 gnage, in local lang	Low uages, placed in a co	onspicuous	Medium
workers/animals	can be reversed:	place near the	construction si	tes					
	degree of impact on irreplaceable resources:				N/A				
		Extent	Duration	Cumulative Magnitude	Impacts Probability	Signit	ficance	Status	
Potential Impact	Mitigation	(E)	(D)	(M)	(P)	(S=(E+I	D+M)*P)	(+ve or -ve)	Confidence
Poaching of game	Nature of impact: with	2	It is highly likely 3	that theft of gam 4	e and stock can occu	r. Theft of game ca	n be higher on farm Low	s where Rhino i -	s present Medium to high
impacting on the loss of	without	5	5	8	4	72	High	-	High
game and in turn affecting the tourism industry of the					racking devices or places				
Municpality and that of the country at large	degree of impact on irreplaceable resources:		Th	e impact will high	where endangered s	pecies such as Rhin	o occur		
	Nature of impact:				ersed in naturem th				
Loss of a sense of place resulting in economic	with without	3	4	6	3	10 39	Low Medium	-	Medium to high Medium to high
losses especially for	degree to which impact	Liase with	Visual Impact sp		best mitgation meas		ed measures would	be to use a	_
tourism sector in turn impact on the economic growth of the Makhado Local Municipality	degree of impact on irreplaceable resources:			tower type	e with the least adve	rse visuai impact			
	Nature of impact:	An increase in	n the power su		bility of the network the development of				electricity is one of the
Increase in power supply	with without	3	4	6	4	52 52	Medium Medium	+	Medium Medium
and in the stability of the network. In turn numerous	degree to which impact	3	4	0	N/A	J2	Wedium	т	Wediam
existing developments such as lodges and other tourist attractions can be	can be reversed:								
improved.	degree of impact on irreplaceable resources:				N/A				
improved.	- '	Eutont	Duration	No-Go Alte	rantive	Cignit	Sanca	Status	
improved. Potential Impact	- '	Extent (E)	Duration (D)	No-Go Alte Magnitude (M)	·		ficance D+M)*P)	Status (+ve or -ve)	Confidence
Potential Impact Powerlines linking the Taborsubstation to the	Mitigation Nature of impact:	(E) There is volt Northern Taborsubsta	(D) age instability a Grid Network d tion to the new	Magnitude (M) s the Polokwane C ue to being operal Bokmakirie (Nzhe sub	rantive Probability (P) customer Load Netwe ted beyond its reliab lele) Substation in or station to accommod	(S=(E+) ork (CLN), including dity. There is theref der to strengthen t date the new 400k	the Tabor and Sper fore a need for a new he northern grid or v infrastructure	(+ve or -ve) acer power is the w powerline Po	ne weakest part of the werlines linking the sion of the Bokmakirie
Potential Impact Powerlines linking the	Mitigation Nature of impact:	(E) There is volt Northern Taborsubsta	(D) age instability a Grid Network d tion to the new	Magnitude (M) s the Polokwane C ue to being operal Bokmakirie (Nzhe sub	Probability (P) customer Load Networked beyond its reliablele) Substation in or station to accommod	(S=(E+) ork (CLN), including lity. There is theref der to strengthen t date the new 400k\	the Tabor and Sper fore a need for a nev the northern grid or I infrastructure	(+ve or -ve) seer power is the powerline Porthat the expanse	ne weakest part of the werlines linking the ision of the Bokmakirie Medium to high
Potential Impact Powerlines linking the Taborsubstation to the new Bokmakirie (Nzhelele)	Mitigation Nature of impact:	(E) There is volt Northern Taborsubsta	(D) age instability a Grid Network d tion to the new	Magnitude (M) s the Polokwane C ue to being operal Bokmakirie (Nzhe sub	rantive Probability (P) customer Load Netwe ted beyond its reliab lele) Substation in or station to accommod	(S=(E+) ork (CLN), including dity. There is theref der to strengthen t date the new 400k	the Tabor and Sper fore a need for a new he northern grid or v infrastructure	(+ve or -ve) acer power is the w powerline Po	ne weakest part of the werlines linking the sion of the Bokmakirie
Potential Impact Powerlines linking the Taborsubstation to the new Bokmakirie (Nzhelele) Substation will not be	Mitigation Nature of impact: with without	(E) There is volt Northern Taborsubsta	(D) age instability a Grid Network d tion to the new	Magnitude (M) s the Polokwane C ue to being operal Bokmakirie (Nzhe sub	Probability (P) customer Load Networked beyond its reliablele) Substation in or station to accommod	(S=(E+) ork (CLN), including lity. There is theref der to strengthen t date the new 400k\	the Tabor and Sper fore a need for a nev the northern grid or I infrastructure	(+ve or -ve) seer power is the powerline Porthat the expanse	ne weakest part of the werlines linking the ision of the Bokmakirie Medium to high
Potential Impact Powerlines linking the Taborsubstation to the new Bokmakirie (Nzhelele) Substation will not be	Mitigation Nature of impact: with without degree to which impact	(E) There is volt Northern Taborsubsta	(D) age instability a Grid Network d tion to the new	Magnitude (M) s the Polokwane C ue to being operal Bokmakirie (Nzhe sub	Probability (P) customer Load Networked beyond its reliablele) Substation in or station to accommod	(S=(E+) ork (CLN), including lity. There is theref der to strengthen t date the new 400k\	the Tabor and Sper fore a need for a nev the northern grid or I infrastructure	(+ve or -ve) seer power is the powerline Porthat the expanse	ne weakest part of the werlines linking the ision of the Bokmakirie Medium to high
Potential Impact Powerlines linking the Taborsubstation to the new Bokmakirie (Nzhelele) Substation will not be	Mitigation Nature of impact: with without degree to which impact can be reversed: degree of impact on	(E) There is volt Northern Taborsubsta 2 4 • Construct th	(D) age instability a Grid Network d tion to the new	Magnitude (M) s the Polokwane C ue to being operat Bokmakirie (Nzhe sub 2 8	rantive Probability (P) customer Load Netwited beyond its reliablele) Substation in or station to accommod	(S=(E+I) prk (CLN), including lity. There is theref der to strengthen t date the new 400k\ 5 51	the Tabor and Speriore a need for a new he northern grid or / infrastructure Low Medium	(+ve or -ve) scer power is the way powerline Porthat the expansion -	ne weakest part of the werlines linking the ision of the Bokmakirie Medium to high
Potential Impact Powerlines linking the Taborsubstation to the new Bokmakirie (Nzhelele) Substation will not be constructed. No increase in the voltage	Mitigation Nature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact:	(E) There is volt Northern Taborsubsta 2 4 • Construct th The voltage i	(D) age instability a Grid Network d tion to the new 1 5 e powerlines	Magnitude (M) s the Polokwane C ue to being operat Bokmakirie (Nzhe sub 2 8 able. This can ress and	rantive Probability (P) sustomer Load Netwered beyond its reliable lele) Substation in or station to accommod 1 3 N/A alt in impacts such as the inability to under	(S=(E+I) prk (CLN), including lity. There is theref der to strengthen t date the new 400k\ 5 51 e electrical equipme take certain actviti	the Tabor and Sper fore a need for a nee the northern grid or r infrastructure Low Medium ent being shut down es on farms etc.	(+ve or -ve) seer power is the way powerline Porthat the expansion	ne weakest part of the werlines linking the sion of the Bokmakirie Medium to high Medium to high cts such as loss of data
Potential Impact Powerlines linking the Taborsubstation to the new Bokmakirie (Nzhelele) Substation will not be constructed.	Mitigation Nature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact:	(E) There is volt Northern Taborsubsta 2 4 • Construct th	(D) age instability a Grid Network d tion to the new 1 5 e powerlines	Magnitude (M) s the Polokwane C ue to being operat Bokmakirie (Nzhe sub 2 8 able. This can ress and t	rantive Probability (P) Sustomer Load Netweeted beyond its reliablele) Substation in or station to accommod 1 3 N/A ult in impacts such as the inability to under	(S=(E+I) prk (CLN), including litity. There is theref der to strengthen t date the new 400k\ 5 51 s electrical equipme take certain actviti	the Tabor and Speriore a need for a need for a need for a need he northern grid or a interest in the most of infrastructure Low Medium ent being shut down es on farms etc.	(+ve or -ve) scer power is the way powerline Porthat the expansion -	ne weakest part of the werlines linking the sion of the Bokmakirie Medium to high Medium to high
Potential Impact Powerlines linking the Taborsubstation to the new Bokmakirie (Nzhelele) Substation will not be constructed. No increase in the voltage	Mitigation Nature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact:	(E) There is volt Northern Taborsubsta 2 4 • Construct th The voltage i	(D) age instability a Grid Network d tion to the new 1 5 e powerlines	Magnitude (M) s the Polokwane C ue to being operat Bokmakirie (Nzhe sub 2 8 able. This can ress and t	rantive Probability (P) sustomer Load Netwered beyond its reliable lele) Substation in or station to accommod 1 3 N/A alt in impacts such as the inability to under	(S=(E+I) prk (CLN), including litity. There is theref der to strengthen t date the new 400k\ 5 51 s electrical equipme take certain actviti	the Tabor and Sper fore a need for a nee the northern grid or r infrastructure Low Medium ent being shut down es on farms etc.	(+ve or -ve) seer power is the way powerline Porthat the expansion	ne weakest part of the werlines linking the sion of the Bokmakirie Medium to high Medium to high cts such as loss of data
Potential Impact Powerlines linking the Taborsubstation to the new Bokmakirie (Nzhelele) Substation will not be constructed. No increase in the voltage	Mitigation Nature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact:	(E) There is volt Northern Taborsubsta 2 4 • Construct th The voltage i	(D) age instability a Grid Network d tion to the new 1 5 e powerlines	Magnitude (M) s the Polokwane C ue to being operat Bokmakirie (Nzhe sub 2 8 able. This can ress and t	rantive Probability (P) Sustomer Load Netweeted beyond its reliablele) Substation in or station to accommod 1 3 N/A ult in impacts such as the inability to under	(S=(E+I) prk (CLN), including litity. There is theref der to strengthen t date the new 400k\ 5 51 s electrical equipme take certain actviti	the Tabor and Sper fore a need for a nee the northern grid or r infrastructure Low Medium ent being shut down es on farms etc.	(+ve or -ve) seer power is the way powerline Porthat the expansion	ne weakest part of the werlines linking the sion of the Bokmakirie Medium to high Medium to high cts such as loss of data
Potential Impact Powerlines linking the Taborsubstation to the new Bokmakirie (Nzhelele) Substation will not be constructed. No increase in the voltage stability	Mitigation Nature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact: with without degree to which impact can be reversed: or irreplaceable resources: Nature of impact on irreplaceable resources:	(E) There is volt Northern Taborsubsta 2 4 • Construct th The voltage i 1 3	(D) age instability a Grid Network d tion to the new 1 5 e powerlines	Magnitude (M) s the Polokwane C ue to being operat Bokmakirie (Nzhe sub 2 8 able. This can rest and 2 8 Ensu	rantive Probability (P) Sustomer Load Netweeted beyond its reliablele) Substation in or station to accommod 1 3 N/A Ault in impacts such as the inability to under the inability to under the inability to under the the inability to under the the inability to under the inability the inability to under the inability to under the inability the	(S=(E+I) prk (CLN), including lity. There is theref der to strengthen t date the new 400k\ 5 51 s electrical equipme take certain actviti 4 48 s stabilised	the Tabor and Sper fore a need for a nee he northern grid or r infrastructure Low Medium ent being shut down es on farms etc. Low Medium	(+ve or -ve) Incer power is the way powerline Poor that the expansion of	ne weakest part of the werlines linking the sion of the Bokmakirie Medium to high Medium to high cts such as loss of data Medium Medium Medium Medium
Potential Impact Powerlines linking the Taborsubstation to the new Bokmakirie (Nzhelele) Substation will not be constructed. No increase in the voltage stability	Mitigation Nature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact: with without degree to which impact can be reversed: or irreplaceable resources: Nature of impact on irreplaceable resources:	(E) There is volt Northern Taborsubsta 2 4 • Construct th The voltage i 1 3	(D) age instability a Grid Network d tion to the new 1 5 e powerlines	Magnitude (M) s the Polokwane C ue to being operat Bokmakirie (Nzhe sub 2 8 able. This can rest and 2 8 Ensu	rantive Probability (P) sustomer Load Netweeted beyond its reliable lele) Substation in or station to accommod 1 3 N/A with in impacts such as the inability to under that the voltage is N/A me activities not be	(S=(E+I) prk (CLN), including lity. There is theref der to strengthen t date the new 400k\ 5 51 s electrical equipme take certain actviti 4 48 s stabilised	the Tabor and Sper fore a need for a nee he northern grid or r infrastructure Low Medium ent being shut down es on farms etc. Low Medium	(+ve or -ve) Incer power is the weak powerline Poor that the expansion of	ne weakest part of the werlines linking the sion of the Bokmakirie Medium to high Medium to high cts such as loss of data Medium Medium Medium Medium

other industries as well as	degree to which impact	Increase elec	tricity supply th	rough measures su	ich as the construction	on of the propo	sed power line and ens	ure that these	
allowing for the	can be reversed:				are well maitaine	ed			
undertaking of other activities that may not have been possible before. The absence of an increase in electricity may also hinder the undertaking of other activities that may only be possible with electricity supply	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:	The backlog	gs are caused by	factors such as a l	ack of funds and staf impossible when the	_	ne rendering of services city available.	that require t	ne use of electricity is
	with	2	1	4	2	14	Low	-	Medium to high
	without	3	4	8	4	60	Medium	-	Medium to high
Continuation of backlogs in electricity connections	degree to which impact can be reversed:						his can include increas dequate material availa		
	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:	In services suc	h health as faci	lities, lack of electr	icity can result in los	ses of lives			
Continuation of the	with	1	1	0	2	4	Low	-	Medium
inadequate provision of	without	3	5	10	4	72	High	-	Medium
electricity to critical	degree to which impact can be reversed:	The necessity	of electricity to	critical services is	imperative and the pare avoided	proposed powe	rline can ensure that ac	dverse impacts	
facilities	degree of impact on irreplaceable resources:				N/A				
Continuation of the	Nature of impact:						hese include the cutting eforestation and the po	-	-
Continuation of the	with	1	1	2	2	8	Low	-	Medium
unavailability of electricity	without	3	5	8	4	64	High	-	Medium
in numerous rural settlements	degree to which impact can be reversed:			Pro	vide electricity to ru	ral areas			
	degree of impact on irreplaceable resources:				N/A				

Social Impacts - Alternative 1b

		Construction Phase										
Potential Impact	Mitigation	Extent (E)	Duration (D)	Magnitude (M)	Probability (P)		ignificance (E+D+M)*P)	Status (+ve or -ve)	Confidence			
	Nature of impact:				ions for job seekers. the driver of the poss		e, the job seekers may b seekers	be from the Lou	is Trichart town area.			
	with	3	1	4	2	16	Low		Medium to high			
	without	3	2	8	4	52	Medium	-	Medium to high			
Influx of job seekers, mainly unskilled labour, from the communities around the power line route having job expectations	degree to which impact can be reversed:	Identify poss Communicat Ensure that of jobs for con Where the joth the communit Where possic construction eperiod elapses Have clear ruestablish standents	dentify all labour requirements before construction starts dentify possibilities and creation of a liaison desk 4 months before construction starts communication strategy well in advance of project start nsure that there is a Community liaison officer from affected communities and together with them study possibilities jobs for community members e.g vegetation clearing, food vendors Where the jobs have been identified, these must also be formalised through issuing of permits to avoid conflicts within e community and to avoid loitering Where possible, ensure that all interested community members get an opportunity to work on the project during struction e.g for vegetation clearing, each community member can be allocated a period of working and when this riod elapses, other community members should be given an opportunity to also work and generate some impact lave clear rules and regulations for access to the camp / site office to control loitering. Consult with the local SAPS to ablish standard operating procedures for the control and/or removal of loiterers at the construction site. Ensure that mmunity members are aware of the possible results of loitering before construction starts N/A If toilet facilities on site are not well managed, these can lead to adverse health impacts to the surrounding con									
	degree of impact on				N/A							
	irreplaceable resources: Nature of impact:	If	toilet facilities	on site are not wel	I managed, these car	lead to advers	se health impacts to the	e surrounding co	ommunities			
	with	1	1	0	1	2	Low	-	Medium to high			
Health Impacts as a result of exposure to sewage from construction camps and on construction camps	degree to which impact can be reversed:	 Pit latrines a must be suffic The toilets si done through shall be service 	re prohibited o ient for all work hall be emptied measures such ed on a regular	n the construction sers at a ratio of 1 and cleaned regul as covering the gr	toilet to 15 persons a larly and the contract ound with a water pr ecessary replaced.	mobile or port and provided w tor shall ensure	able toilets shall be use	ed. This can be	Medium to high			
			N/A									
	degree of impact on irreplaceable resources:				N/A							
	irreplaceable resources: Nature of impact:				ommunity members		nd also pose a danger t	o the health of				
	irreplaceable resources:	Waste on 1	site can becom	e a nuisance for co		and on farms ar	nd also pose a danger t Low Low	o the health of - -	people and animals Medium Medium			
Health Impacts as a result of exposure to waste (domestic and industrial)	irreplaceable resources: Nature of impact: with	Littering on: Fines could be Waste shall overflowing. T	1 2 site should be poe implemented be collected at 1 the containers v	0 2 rohibited and the d for littering" regular intervals in	ommunity members : 1 3 Environmental Contr	2 15 rol Officer (ECO	Low Low	- - before	Medium			
of exposure to waste	irreplaceable resources: Nature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources:	Littering on: Fines could t Waste shall overflowing. T from the site a	1 2 site should be p pe implemented be collected at i the containers v and any reusabl	0 2 prohibited and the d for littering" regular intervals in vill then be dispose e or recyclable wa	emmunity members : 1 3 Environmental Contra sealed containers the dof at recognised faste identified N/A	2 15 ol Officer (ECO nat will remove acilities. The wa	Low Low) should inspect this d from site and camps leste shall be separated	- - before before removal	Medium Medium			
of exposure to waste	irreplaceable resources: Nature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact:	Littering on : Fines could t Waste shall overflowing. T from the site a	1 2 site should be poe implemented be collected at the containers wand any reusable truction worker	0 2 prohibited and the of for littering" regular intervals in will then be dispose e or recyclable wa	Environmental Contra a sealed containers the ed of at recognised for ste identified	2 15 tol Officer (ECO that will remove actilities. The wa	Low Low) should inspect this d from site and camps iste shall be separated	- - before before removal	Medium Medium or farm workers in the			
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of exposure to waste (domestic and industrial) Health impacts from construction sites and camps as a result of	irreplaceable resources: Nature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact: with without degree to which impact:	Littering on a Fines could be Waste shall overflowing. The from the site of th	truction worker and any reusabl truction worker 1 1 IIIV/AIDS and ST ommunities as hould be distrib try members are with the necessa n who may forn in the project as tionships with ce construction s'illage. es eg TB, measlicion workers sho	o 2 prohibited and the differ littering" regular intervals in will then be dispose e or recyclable was a reinfected with 2 6 I awareness campawell. I aware of the avairy cultural sensitive in relationships with this will result in the onstruction worke it eshould be continued.	Environmental Control sealed containers the dof at recognised faste identified N/A Infectious diseases, 2 3 aign should be launchem at centrally locatelability and location of the construction workers them becoming finances in return for finances in	these can be p at will remove a cilities. The war a cilities. The war a cilities. The war a cilities are to be p at will remove a cilities. The war a cilities are to be p at war a cilities are to be p at a	assed on to the communication by ensuring that constructed distribution of condompowered through meent and in turn reduce either visiting and/or locally and to be constructed as a constructed of the condompowered through meent and in turn reduce either visiting and/or locally and the construction of condompowered through meent and in turn reduce either visiting and/or locally and the condompowered through meent and in turn reduce either visiting and/or locally and the condompower a	before before removal unity members of the contraction suction workers ms should be assures such as their likelihood bitering at the	Medium Medium or farm workers in the Medium Medium			
of exposure to waste (domestic and industrial) Health impacts from construction sites and camps as a result of	irreplaceable resources: Nature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact: with without degree to which impact can be reversed:	Littering on a Fines could be Waste shall overflowing. The from the site of th	truction worker and any reusabl truction worker 1 1 IIIV/AIDS and ST ommunities as hould be distrib try members are with the necessa n who may forn in the project as tionships with ce construction s'illage. es eg TB, measlicion workers sho	o 2 prohibited and the differ littering" regular intervals in will then be dispose e or recyclable was a reinfected with 2 6 I awareness campawell. I aware of the avairy cultural sensitive in relationships with this will result in the onstruction worke it eshould be continued.	Environmental Control sealed containers the dof at recognised faste identified N/A Infectious diseases, 2 3 aign should be launchem at centrally locatelability and location of the construction workers them becoming finances in return for finances in	these can be p at will remove a cilities. The war a cilities. The war a cilities. The war a cilities are to be p at will remove a cilities. The war a cilities are to be p at war a cilities are to be p at a	assed on to the communication of condorm powered through meet and in turn reduce either visiting and/or locations.	before before removal unity members of the contraction suction workers ms should be assures such as their likelihood bitering at the	Medium Medium or farm workers in the Medium Medium			

relationships between community members/ farm workers and Eskom Construction workers can result in issues such as sexual misconduct and the spread of sexually	degree to which impact can be reversed:	permission fro • An Environm	om the site offici nental Control O	er/ Environmental	Control Officer (ECO be appointed to ensu))	nnel are to enter the si conduct themselves ir				
transmitted diseases	degree of impact on irreplaceable resources:				N/A						
	Nature of impact:						eliefs and cultural bac				
	with without	2	1	6	2	10 36	Low Medium		Low		
Conduct of construction workforce; Bad relationships between community members/ farm workers and Eskom Construction workers leading to violence	degree to which impact can be reversed:	In the Environment An Environment An Environment An Fining s	onmental Manag om the site office nental Control O system for non-o the local police	gement Plan (EMP) er/ Environmental ifficer (ECO) must l compliance must b) ,state that no unaut Control Officer (ECO be appointed to ensu e set in place;	thorised person) ure contractors	nnel are to enter the si conduct themselves ir	n an appropriate	200		
	degree of impact on irreplaceable resources:		N/A aterial can be stolen from the sites where decommissioning is taking place as material used in electricity is often the ta								
	Nature of impact:	Material ca	argeted by criminals								
	with	1									
	without	1	1	8	4	40	Medium	-	Medium		
Theft of material from camps and along construction sites	degree to which impact can be reversed:	 Fencing shall be erected around the construction camp and access shall be controlled through a lockat security personnel. The fence shall be constructed of high quality material bearing the SABS mark. Furth fence shall be inspected on a daily basis and any damages should be fixed as soon as it is practicable. To shadecloth can be attached to the fence and similar to the fence, shall be inspected daily and fixed as so 									
	degree of impact on irreplaceable resources:										
	Nature of impact:					project		rtant to their live	lihoods will oppose the		
Negative attitudes towards	with without	3	1	6	2	10 30	Low Low		Medium Medium		
the project and the formation of community groups, NGO's, in response to the project;	degree to which impact can be reversed:	Ensure that the can contact shape conta	there is ongoing	communication w		ties and provide	e contact details of per	rsons that they			
	degree of impact on irreplaceable resources:				N/A						
	Nature of impact:				-		are opposed to the pro	oject	Mandium		
	with without	1	2	6	2	8	Low	-	Medium Medium		
Land owners denying contractors access to their						36	Medium	-	IVICUIUIII		
properties	degree to which impact can be reversed:				rs in regards to proce	edures for ente		_	Medium		
	•				rs in regards to proce	edures for ente	ring onto farms	_	Weduli		
	degree of impact on irreplaceable resources:	Eskom must	ensure that lar	d owners are info	rs in regards to proce rmed of the construct N/A the clearing of the p	edures for ente	ring onto farms rell as dates for mainte	enance	powerline		
	degree of impact on irreplaceable resources:	Eskom must	ensure that lar	nd owners are info	rs in regards to proce rmed of the construc N/A	edures for ente	ring onto farms rell as dates for mainte	enance			
	can be reversed: degree of impact on irreplaceable resources: Nature of impact:	Eskom must 1 1 Ensure that • Where possi • Where powd fallow and wit • Discuss with	Land and crops 1 3 construction tal ble, powerline ter lines can't be h no crops land owners the	can be lost during 2 6 ses place when the lowers should be liplaces along proping the loss of land	rs in regards to procermed of the construction N/A the clearing of the p 2 4 el and is fallow and wocated along the bouerty boundaries, ensured.	edures for entection dates as we construction dates as we construct the construction dates as we construction dates as we construction.	ring onto farms rell as dates for mainte	enance struction of the p - - of crops en the land is	powerline Medium to high		
properties Loss of crops leading to	degree of impact on irreplaceable resources: Nature of impact: with without degree to which impact	Eskom must 1 1 Ensure that • Where possi • Where powd fallow and wit • Discuss with	Land and crops 1 3 construction tal ble, powerline ter lines can't be h no crops land owners the	can be lost during 2 6 ses place when the lowers should be liplaces along proping the loss of land	ns in regards to proceed of the construction in the clearing of the proceed of the clear	edures for entection dates as we construction dates as we construct the construction dates as we construction dates as we construction.	or and during the con Low Medium rm to lessen the loss of action takes place whe	enance struction of the p - - of crops en the land is	powerline Medium to high		
properties Loss of crops leading to	degree of impact on irreplaceable resources: Nature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact:	Eskom must 1 1 Ensure that . Where possi Where power fallow and wit Discuss with farming can st	Land and crops 1 3 construction take ble, powerline ter lines can't be h no crops land owners the ill occur below to the blow to the blo	can be lost during 2 6 ses place when the lowers should be leplaces along properties along properties at the loss of land the powerline after the loss of land the land the loss of land the	rs in regards to proceed of the construction when the clearing of the proceeding of the process	owerline corrid 8 40 with no crops and ary of the faure that construction and are construction are the corridor a	or and during the con Low Medium rm to lessen the loss of auction takes place whe phase as some activities as well as during the consequence of	enance struction of the p of crops en the land is ies such as crop	Dowerline Medium to high Medium to high		
properties Loss of crops leading to	degree of impact on irreplaceable resources: Nature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources:	Eskom must 1 1 Ensure that • Where possi Where power fallow and wit Discuss with farming can st	Land and crops 1 3 construction take ble, powerline ter lines can't be h no crops land owners the ill occur below to	can be lost during 2 6 ses place when the owers should be leplaces along properties along properties the loss of land the powerline afte	ns in regards to proceed of the construction when the clearing of the proceeding of the process	owerline corrid 8 40 with no crops and ary of the faure that construction ded	or and during the con Low Medium rm to lessen the loss outtion takes place whe phase as some activit	enance struction of the p of crops en the land is ies such as crop	oowerline Medium to high Medium to high		

Damage to firm infrastructure early degree to which impact contribution of the damage of the duration of construction with the exception of farm fences and gates which if damaged by construction should be found in the property of inspect on the reversed: **Where possible, farm infrastructure can be moved for the duration of construction, where this is not possible, the government of the duration of construction of construction, where this is not possible, the government of the duration of construction of construction, where this is not possible, the government of the duration of construction of construction, where this is not possible, the government of the duration of construction. **Notice of Impact on the duration of the duration of construction of the duration of construction. **Notice of Impact on the duration of the duration of construction of garme and stock can occur. Therefore game can be higher on farms where Rhino is present within the damage to the infrastructure **Security concerns as a result of possible gards to ensure that construction where and their equipment are inspected prior to design the property **Notice of Impact on Im										
Author of Impact and the Impact on farming activities and a service of Impact and the Impact on farming activities and a service of Impact and the Impact on farming activities and a service of Impact and the Impact on farming activities and a service of Impact and the Impact on farming activities and a service of Impact and the Impact on			 Discuss with as some activity 	land owners the	at the loss of some p farming can still	e land may be tempo occur below the pow	orary and will overline after co	nly be during the cons	truction phase	
without in a 1 1 2 2 2 8 1		- '	Where the le	oss of land is pe	rmanent, Eskom s	hould discuss compe	nsation with la	ndowner		
whence it is a constrained activities and the colors of funds of the colors of the col				1	1					
degree to which impact a management of the country of several part of the part									-	
Nature of impact on impelicable recourses: Nature of impelicable recourses: Nature of impelicable recourses: Nature of impelicable recourses: Natu	activities such as sowing, harvesting, and fire management programmes	degree to which impact			place during seas re this happens, ir	the case of harvest	ing, construction	on can occur after this		Ü
with 1 1 2 1 3 2 1 4 1000 Medium to big without 1 1 1 0 6 3 22 4 1000 Medium to big without 1 1 1 0 6 3 22 4 1000 Medium to big without 1 1 1 0 6 3 22 4 1000 Medium to big sleeper to which impact impacts on irresplance alternations which the acception of fram forecast and active which if sharped by the big minute or bases with the acception of fram forecast and seven which if sharped by the sleeper to which impact in irresplance alternations which are presented in the presence of a speece of impact on irresplance alternations are sometimed and the presence of a speece of impact on irresplance alternations are sometimed and the present of the presence of a speece of impact on irresplance alternations are sometimed and the presence of a speece of impact on irresplance alternations are speeced in the presence of a speece of impact on irresplance alternations are speeced in the presence of a speece of impact on irresplance alternations are speeced in the presence of workers on plants and communities of the presence of workers on plants and communities of the presence of workers on plants and communities of the presence of workers on plants and communities and expected price of which impact is a speece of workers on plants and communities and expected price of which impact is plants and communities and expected price of which impact is a speece of workers on plants and community members about construction and maintenance dates and community members about construction and maintenance dates and pregote may feel threatened presence of workers on plants and community members about construction and maintenance dates and pregote to which impact is a speece of workers on plants and community members about the number of workers expected in given to which impact is a plant of the presence of workers on plants and community members about the number of workers expected in given to which impact is a plant of the presence of workers on plants and community members about the presence of workers on plants and community members abo		irreplaceable resources:								
Danage to farm infrastructure e, irrigation equipment, gates, fences Very three possible, farm infrastructure can be exception of farm foundaries and pion age visiting mode as infrastructure, gates, fences Very three possible, farm infrastructure can be enoved for the duration of construction; where this is not possible, the powerfine route can be altered to avoid the damage to the linifrastructure Very three possible, farm infrastructure can be moved for the duration of construction; where this is not possible, the powerfine route can be altered to avoid the damage to the linifrastructure Very three possible, farm infrastructure can be moved for the duration of construction; where this is not possible, the powerfine route can be altered to avoid the damage to the financiary can be injected or impact on preparation of impact. Very three possible, farm infrastructure can be moved for the duration of construction; where this is not possible, the powerfine route can be altered to avoid the damage to the financiary can be higher on farms where fishino is present Very three possible, farm infrastructure can be moved for the duration of construction; where this is not possible, the powerfine route can be appointed to avoid the damage to the financiary can be higher on farms where fishino is present Very three possible, and the damage to the financiary can be depreted to which impact Very three possible, and the presence of contruction workers and their equipment are inspected prior to leaving the property Very three possible, and the presence of contruction workers in communities and especially on farms can lead to unease and people may feet threatened Very three possible, and the presence of contruction workers in communities and especially on farms can lead to unease and people may feet threatened Very three possible, and the presence of contruction workers in communities and especially on farms can lead to unease and people may feet threatened Very three possible, and three endangere		·	1	1						Modium to high
Damage to farm infrastructure e elimination equipment, agrice, fences of green to which impact can be reversed: Security concerns as a securated for advanced the securation of the security of the securation										Medium to high Medium to high
Irreplaceable resources: Nature of impact: It is highly likely that theft of game and stock can occur. Theft of game can be higher on farms where Rhino is present without 1 1 2 4 36 Low Needium to high the present of pacing of game stock theft and crop theft 1 1 1 2 4 36 Medium Needium to high the place outside the hunting season Notice of the place outside the hunting season Needium to high the place outside the hunting season Needium to high the place outside the hunting season Needium to high the place outside the hunting season Needium to high the place outside the hunting season Needium to high the place outside the hunting season Needium to high the place outside the hunting season Needium to high the place outside the hunting season Needium to high the place outside the hunting season Needium to high the place outside the hunting season Needium to high the place outside the hunting season Needium to high the place outside the hunting season Needium to high the place outside the hunting season Needium to high the place outside the hunting season Needium to high the place outside the hunting season Needium to high the property Needium to high the property Needium to high the property Needium Needium Needium to high the property Needium	infrastructure e.g. irrigation equipment,		is likely to be fixed. • Where poss	minimum or ab	sent with the exce	ption of farm fences loved for the duratio	and gates which and gates which are sent are se	ch if damaged by conta	actors should be	
Security concerns as a result of the property as a result of the presence of workers and communities and commu						N/A				
Security oncerns as a result of the presence of vortex or on plarms and communities and commun		-							ms where Rhino	
Security concerns as a result of the street of impact can be reversed: Construction should only take place outside the hunting season Where possible, animals should be fitted with tracking devices or placed in secure enclosures for the duration of construction. Land owner can also appoint guards to ensure that construction workers and their equipment are inspected prior to leaving the property									-	Medium to high
Nature of impact: The mere presence of contruction workers in communities and especially on farms can lead to unease and people may feel threatened presence with 1 1 2 2 8 10w - Medium to high without 2 1 1 8 3 3 33 Medium - Medium to high without 2 1 1 8 3 3 33 Medium - Medium to high without 5 2 1 1 8 3 3 33 Medium - Medium to high without 6 2 1 1 8 8 3 3 33 Medium - Medium to high without 6 2 1 1 8 8 3 3 33 Medium - Medium to high without 6 2 1 8 8 8 8 9 Medium - Medium to high without 7 8 Medium 1 9 Medium 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	result of poaching of game, stock theft and crop theft	can be reversed: degree of impact on	Where poss construction.Land owner	ible, animals sh can also appoir operty	ould be fitted with	tracking devices or perfection was that construction w	orkers and the	ir equipment are inspo		
with 1 1 2 2 2 8 Low - Medium to hig without 1 1 1 2 2 2 8 8 Low - Medium to hig without 2 1 1 8 3 3 33 Medium - Medium to hig - Advice landowners and community members about construction and maintenance dates - Advice landowners and community members about the number of workers expected - Upon arriving in a community or farm, workers must inform the community leader and farm owners or managers respectively - Ensure that construction workers are easily identifiable by construction uniform with logos and identification cards with logos and a photograph of the worker. Construction vertices must also be marked - Construction workers should be allowed to inspect these - The landowner should be allowed to check the identification cards and note the names of construction workers present on site. - provide the landowners and community members should be provided with contact details of Eskom and the local SAPS to report any suspicious behaviour on their property as well as the presence of what seem to be unauthorised in general, access to farms must be according to AgriSA's Protocol for access to farms Safety of community members with the safety of people and animals can be compromised with without 1 1 2 1 4 Low Medium Med			The mere pre	esence of contro	uction workers in c			s can lead to unease	and people may f	eel threatened by their
without 2 1 8 3 3 33 Medium - Medium to hig Advice landowners and community members about construction and maintenance dates Advice landowners and community members about the number of workers expected Upon arriving in a community members about the number of workers expected Upon arriving in a community of farm, workers must inform the community leader and farm owners or managers respectively Ensure that construction workers are easily identifiable by construction uniform with logos and identification cards with logos and a photograph of the worker. Construction welicles must also be marked Construction workers should also carry their Identity documents with them and the land owner should be allowed to inspect these The landowner should be allowed to check the identification cards and note the names of construction workers present on site. Provide the landowners and community members should be provided with contact details of Eskom and the local SAPS to report any suspicious behaviour on their property as well as the presence of what seem to be unauthorised In general, access to farms must be according to AgrisA's Protocol for access to farms Alture of impact			1	1 1	2			Low		Medium to high
Security as a result of the presence of workers on pfarms and communities and be reversed: - Advice landowners and community members about the number of workers expected - Upon arriving in a community or farm, workers must inform the community leader and farm owners or managers respectively - Ensure that construction workers are easily identifiable by construction uniform with logos and identification cards with logos and a photograph of the worker. Construction vehicles must also be marked - Construction workers should also carry their identity documents with them and the land owner should be allowed to inspect these - The landowners should be allowed to check the identification cards and note the names of construction workers present on site provide the landowners and community members should be provided with contact details of Eskom and the local SAPS to report any suspicious behaviour on their property as well as the presence of what seem to be unauthorised - In general, access to farms must be according to AgriSA's Protocol for access to farms - NAture of impact: - with 1 1 2 1 4 Low - Medium - Medium - Medium - Ensure that the construction sites are highly harzadous environments and the safety of people and animals can be compromised - Without 1 1 6 2 1 6 Low - Medium - Ensure that the construction sites and camps are fenced off and signage, in local languages, placed in a conspicuous place near the construction sites - Ensure that animals are secured during construction for their safety as well as that of construction workers - Advice landowners and community members about the number of their safety as well as that of construction workers - Advice landowners and community members are easily identification cards and note the names of construction workers on site. - The landowners should be allowed to check the identification cards and note the names of construction workers on site The landowners should be allowed to check the identification cards and note the names of construction workers on sit									-	Medium to high
Nature of impact: Construction sites are highly harzadous environments and the safety of people and animals can be compromised with 1 1 2 1 4 Low - Medium	presence of workers on	•	Advice lande Upon arrivir respectively Ensure that logos and a ph Construction inspect these The landows on site. provide the to report any	owners and con ag in a commun construction we notograph of the n workers should her should be a landowners and suspicious beh	nmunity members ity or farm, worker or kers are easily id e worker. Construd d also carry their lillowed to check the d community mem aviour on their pro	about the number of s must inform the co- entifiable by constru- tition vehicles must a dentity documents when the e identification cards bers should be prov- perty as well as the prov-	of workers experimently leads of the control of the	ected er and farm owners or with logos and identifi he land owner should names of construction act details of Eskom ar lat seem to be unauth	cation cards with be allowed to workers present and the local SAPS	
Safety of community members/farm workers/animals with 1 1 2 1 4 Low - Medium - Medium Ensure that the construction sites and camps are fenced off and signage, in local languages, placed in a conspicuous place near the construction sites Liase with community leaders/farm owners to ensure that they warn community members/farm employees of the possible dangers of moving close to the construction sites Ensure that animals are secured during construction for their safety as well as that of construction workers degree of impact on		irreplaceable resources:		Construction	sikaa aga bigblu ba		to and the sefe		ala san ha sanna	-wiod
Safety of community members/farm workers/animals Without 1 1 6 2 16 Low - Medium • Ensure that the construction sites and camps are fenced off and signage, in local languages, placed in a conspicuous place near the construction sites • Liase with community leaders/farm owners to ensure that they warn community members/farm employees of the possible dangers of moving close to the construction sites • Ensure that animals are secured during construction for their safety as well as that of construction workers degree of impact on N/A			1							
Safety of community members/farm workers/animals degree to which impact can be reversed: degree to which impact can be reversed: degree of impact on blace near the construction sites Liase with community leaders/farm owners to ensure that they warn community members/farm employees of the possible dangers of moving close to the construction sites Ensure that animals are secured during construction for their safety as well as that of construction workers							16		-	
N/A	members/farm		place near the • Liase with co possible dang	e construction s ommunity leade ers of moving c	ites ers/farm owners to lose to the constru	ensure that they wa	arn community	members/farm emplo	oyees of the	
irreplaceable resources:						N/A				
Nature of impact: It is possible that access routes can be of such poor state that maintenece of the powerline is not possible with 1 1 2 2 8 Low - Medium to high									verline is not poss	ible Medium to high

		4		_			NA address		Mandison to litely		
	without	1	4	8	4	52	Medium	-	Medium to high		
Poor maintenance of the power line access roads: conflict between Eskom	degree to which impact can be reversed:	• Put a firm n	egotiated contr	act in place during	the operational phas	se					
and the landowners on whose responsibility it is to do maintenance on these roads. Farmers use it more often but yet expect Eskom to pay for all maintenance	degree of impact on irreplaceable resources:				N/A						
	Nature of impact:	The pres	ence of powerli	ines particularly in	tourist attractions ca	n result in tou	rists no longer visiting t	the area as their	views will be spoilt		
Loss of a sense of	with	1	1	2	2	8	Low	-	Medium to high		
place/income on game farms – Tourists want to	without	1	1	8	4	40	Medium	-	Medium to high		
see "Africa" and the power line can disturb the rustic African setting;	degree to which impact can be reversed:	Choose thos	se corridors tha	t will have the least	ng season is avoided; t impact on the gamin r close to game farm	ng industry;					
	degree of impact on irreplaceable resources:			Operationa	l Phase						
Potential Impact	Mitigation	Extent (E)	Duration (D)	Magnitude (M)	Probability (P)		Significance =(E+D+M)*P)	Status (+ve or -ve)	Confidence		
	Nature of impact:	The presence	of construction	workers can resul	t in the treat of safet	y and can poss	sibly lead to actual crim	es being comm	itted on some propert		
	with	1	3	2	1	6	Low	-	Medium		
	without	1	5	4	2	20	Low	-	Medium		
Perceived electromagnetic fields impacts on humans and animals during the operational phase	degree to which impact can be reversed:	 Ensure that communities 	nform communities and landowners about the perceived impacts of powerlines Ensure that there are no developments below the powerline so that although adverse impacts are uncertain, mmunities are not paces at risk. On farms ensure that no buildings either for human or animal habitation are placed below powerlines								
	degree of impact on irreplaceable resources:				N/A						
	Nature of impact:	The pres	ence of powerli	ines particularly in	tourist attractions ca	n result in tou	rists no longer visiting t	the area as their	views will be spoilt		
Loss of a sense of	with	1	1	2	3	12	Low		Medium		
place/income on game	without	3	4	8	4	60	Medium	-	High		
farms – Tourists want to see "Africa" and the power line can disturb the rustic African setting;	degree to which impact can be reversed:			nunting season is a t will have the least	voided t impact on the gamii	ng industry					
	degree of impact on irreplaceable resources:				N/A						
	Nature of impact:		It is possi	ble that access rou	tes can be of such po	oor state that r	maintenece of the pow	erline is not pos			
Poor maintenance of the	with	1	4	2	2 4	8 52	Low Medium	-	Medium to high		
power line access roads: conflict between Eskom	without degree to which impact	1	4	8		52	Wedium		Medium to high		
and the landowners on whose responsibility it is to	can be reversed:				N/A						
do maintenance on these roads. Farmers use it more often but yet expect Eskom to pay for all maintenance	degree of impact on irreplaceable resources:	Put a firm neg	gotiated contrac	ct in place during th	ne operational phase						
	Nature of impact:						sult and in turn electric	cty outages may			
	with	1 4	5	2	2 4	10 60	Low	-	Medium to high		
Impact of the power lines on aircraft as there are airports within the study area; one is the Louis Trichardt airport and the ther is for light aircraft on	without degree to which impact can be reversed:	Information issue;Consult legiEnsure that	not available o slative restrictic powerlines are	ons and possible pe clearly visible to ai	irport. National aviati	ion should pro	Medium vide information on se ort organisations	riousness of this	Medium to high		
the road towards											
-	degree of impact on irreplaceable resources:				N/A						
the road towards Waterpoort from Louis Trichardt	irreplaceable resources: Nature of impact:				These can lea	ad to economi			NA. III.		
the road towards Waterpoort from Louis Trichardt Decrease in property	irreplaceable resources: Nature of impact: with	1 2	3 5	4	These can lea	8	Low	-	Medium to high		
the road towards Waterpoort from Louis Trichardt	irreplaceable resources: Nature of impact:	2	5	6	These can lead	8 39		- - pact Specialist	Medium to high Medium to high		

	1											
	Nature of impact:	The mer	e presence of co	ontruction worker	rs in communities and	d especially on fa	arms can lead to unea	se and people m	ay feel threatened			
			- р			,		рогр				
	with	1	1	2	2	8	Low	-	Medium to high			
	without	1	1	4	4	24	Low	-	High			
Security issues as a result of the presence of maintenance workers on properties	degree to which impact can be reversed:	with pl maintenand liase with lan them about	sure that construction workers are easily identify identified by construction clothes with logos and identification cards with photographs. The landowner should be allowed to check the identification cards and note the names of naintenance workers present on site. Even with mitigation however, farmers may still feel unsafe on their properties; se with landowners to advice them on the dates of construction of the powerline on his propoerty as well as informing hem about the number of personell expected, the landownwer can also be provided with contact details of Eskom to report any unacceptable behaviour on his site as well as the presence of what seem to be unathorised persons									
	degree of impact on irreplaceable resources:		The	impact can be hi	gh where endangered	d species such a	s Rhino occur					
	Nature of impact:		1	1	This can result in							
	with without	1	1	2 8	2	8 40	Low Medium	-	Medium High			
Land owners denying contractors access to their properties	degree to which impact can be reversed:	Eskom must the procedur necessary	liase with farme res.eg it can be a y, providing ther	rs in regards to pr agreed that, farmon m with spare keys	rocedures for enterin ers must not to chang for easy access to th	g onto farms. Be ge locks to gates eir properties d	oth Eskom and farmers without informing Esk uring maitenance.Desç in the route on his pro	com, and where pite this, the				
	degree of impact on irreplaceable resources:				N/A							
	Nature of impact: with	1	1	0	This is	a high probabili	Low		Medium to high			
	without	1	1	2	2	8	Low		Medium to high Medium to high			
Poaching of game as well as stock theft and theft of crops	degree to which impact can be reversed:					and may not ha	elihood for activities su ave the time to plan a l		ū			
	degree of impact on irreplaceable resources:			Desired the	N/A							
	Nature of impact: with	1	1	During the oper	ational phase, impact	s on farm activit	ies are likely to be ver	y minimal -	Medium to high			
	without	1	1	2	1	4	Low	-	Medium to high			
Impact on farming activities such as sowing, harvesting, and fire management programmes leading to economic losses			r a significantly	shorter duration,	but must at all costs	be avoided. This	uction, the impacts on can be through meas high activity on farms.					
	degree of impact on irreplaceable resources:				N/A							
Impact on farming	Nature of impact:	During t	the operational	phase, impacts or	actvities and on gue	ests to lodges ar	nd other tourist destni	ations are likely t	o be very minimal			
activities such as hunting in	with	1	1	0	1	2	Low	-	Medium to high			
game farms leading to economic losses. Impacts	without degree to which impact	1	1	2	1	4	Low	-	Medium to high			
can also be on guests in	can be reversed:											
lodges leading to economic losses	degree of impact on irreplaceable resources:				N/A							
	Nature of impact:		Ani	ncreased voltage	will ensure that activ	ities that were i	not able to take place v	will be possible				
	with without	3	5	8	5	80	High	+	Medium			
Increase in the voltage stability	degree to which impact can be reversed:	3	3		N/A	80	High	+	Medium			
	degree of impact on irreplaceable resources:				N/A							
	Nature of impact:	Re	liable electricity	supply is a positi	ve impact that will im	prove activities	such as touriam in the	Makhado Local	Municipality			
	with	3	4	2	4	36	Medium	+	Medium			
An assurance of a reliable electricity supply	without degree to which impact can be reversed:	2	1	6	4 N/A	36	Medium	+	Medium			
,	degree of impact on irreplaceable resources:				N/A							
	Nature of impact:			In order to grov	w the economy of the	Makhado Loca	l Municipality, electrici	ty is vital				
Increase of electricity	with											
Increase of electricity supply making it available		3	5	In order to grov	w the economy of the	Makhado Loca	Municipality, electrici High	ty is vital +	Medium			

and other industries. The increase in electricity can also allow for the undertaking of other activities that may have been that may not have been possible prior to the improved elect.ricity supply	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:	The absence	ce of backlogs ir	electricy connecti	ons can imply that a	activities that ca	n only take place wher	e electicity is pro	esent will be possible
	with								
No more bookless in	without	3	5	8	5	80	High	+	Medium
No more backlogs in electricity Connections	degree to which impact can be reversed:				N/A				
ciccurdity connections	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:								
The lands weeks and delega-	with				_				
The inadequate provision of electricity to services	without degree to which impact	3	5	8	5	80	High	+	Medium
such as health facilities will					N/A				
cease	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:		Ti	ne presence of elec	tricity to rural areas	s will improve th	ne lives of many who liv	ve in poverty	
Electricity will be available	with without	3	5	8	5	80	High	+	Medium
to numerous rural	degree to which impact				N/A				
settlements that do not	can be reversed:				N/A				
have this service	degree of impact on irreplaceable resources:				N/A				
	T			ecommissior				-	T
Potential Impact	Mitigation	Extent (E)	Duration (D)	Magnitude (M)	Probability (P)		ignificance =(E+D+M)*P)	Status (+ve or -ve)	Confidence
	Nature of impact:	The decommi the Makhado	sioning of a pov Local Municipal	verline can creating	g employment expe	ctations for job he time this pov	seekers against the ba	ckground of low	employment rates in the town will have grown
	with	1	1	0	1	2	Low	-	Medium to high
	without	1	2	2	2	10	Low	-	Medium to high
Influx of job seekers	degree to which impact can be reversed:	Communica Ensure that of jobs for cor Where the the communit Where poss decommission community m Have clear r establish stan	tion strategy we there is a Comm mmunity memb jobs have been ty and to avoid lible, ensure tha ninge.g, each co tembers should rules and regular dard operating	ell in advance of de nunity liaison office ers e.g., food vend identified, these moitering. t all interested con mmunity member be given an opport tions for access to procedures for the	ors nust also be formalis nmunity members g can be allocated a p tunity to also work a the camp / site offic	t. mmunities and t sed through issu get an opportuni period of workin and generate so se to control loit noval of loiterers	ogether with them studing of permits to avoid ity to work on the projeg and when this perioc me impact. ering, Consult with the sat the construction sit	conflicts within ect during delapses, other	
	degree of impact on irreplaceable resources:				N/A				
	Nature of impact: with	1	toilet facilities 1	on site are not wel	l managed, these ca	n lead to adver	se health impacts to th	e surrounding co	mmunities Medium to high
Harlet Laure	without	1	1	6	3	24	Low	-	Medium to high
Health Impacts as a result of exposure to sewage from construction camps and on construction camps	degree to which impact can be reversed:	Workers arePit latrines a	are prohibited o	n using their surroun the construction	undings to relieve th	nemselves y mobile or port	able toilets shall be use	ed and these	, in the second
	degree of impact on irreplaceable resources:				N/A				
	Nature of impact: with	Where cons	struction worker	rs are infected with 2	infectious diseases 2	s, these can be p	bassed on to the commit	unity members o	arm workers in the
Health impacts from	without	2	1	6	3	27	Low	-	
construction sites and	degree to which impact				aign should be laund	ched. These sho	uld be directed at all co	onstruction	
camps as a result of infectious diseases	can be reversed:	workers and o	communities as	well.					
inicetious diseases	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:	It is possib	le that because	of good relationsh	ips between contact	tors and commu	inity members, negativ	re as well as posi	tive actions can arise
Conduct of construction	with	2	1	2	2	10	Low	-	Medium to high
workforce; Good	without	2	1	6	4	36	Medium		Medium to high
relationships between community members/									
farm workers and Eskom Construction workers can result in issues such as sexual misconduct and the spread of sexually	degree to which impact can be reversed:	permission fro • An Environn	om the site offic nental Control C	er/ Environmental	Control Officer (ECC be appointed to ens	0)	nnel are to enter the si		
farm workers and Eskom Construction workers can result in issues such as sexual misconduct and the	can be reversed:	permission fro • An Environn	om the site offic nental Control C	er/ Environmental	Control Officer (ECC be appointed to ens	0)			

	with	2	1	2	2	10	Low		
	without	2	1	6	4	36	Medium	-	
Conduct of construction workforce; Bad		permission fro • An Environm	om the site offic nental Control C	er/ Environmenta	Control Officer (ECO be appointed to ensu))	nnel are to enter the si		
relationships between community members/ farm workers and Eskom Construction workers	degree to which impact can be reversed:	can be avoide	d				that any possible erup • As far as possiveen the locals and con	ible, locals	
leading to violence	degree of impact on								
	irreplaceable resources:				N/A				
Theft of material from	Nature of impact:	1	1	Material car	be stolen from cons	truction sites a	and in areas along the r	route	Medium
camps and along	without	2	1	8	4	44	Medium	-	Medium
construction sites	degree to which impact						olled through a lockable		
	degree of impact on	security perso	nnel. The fence	shall be construct	ed of high quality ma	aterial bearing	the SABS mark. Furthe	rmore, the	
	irreplaceable resources: Nature of impact:		hat land owner	s eg lodge owners	game farmers owne	ers for whom vi	isual impacts are impor	rtant to their live	lihoods will oppose the
	with	2	1	2	2	10	Low	-	Medium
Negative attitudes towards	without	• Ensure that	1 there is ongoing	6 communication v	3 vith the affected part	27 ties and provid	Low e contact details of per	rsons that they	Medium
the project and the formation of community groups, NGO's, in response to the project;	degree to which impact can be reversed:	can contact sh		queries or comme	ents about the projec				
	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:		T .		1		are opposed to the pro	oject	l
	with without	1	2	6	4	8 36	Low Medium	-	Medium Medium
Land owners denying contractors access to their properties	degree to which impact can be reversed:				ers in regards to proce rmed of the construc		ering onto farms well as dates for mainte	enance	
	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:		Land and crops	can be lost during	the clearing of the p	owerline corri	dor and during the con	struction of the	oowerline
	with	1	1	2	2	8	Low	-	Medium to high
Loss of crops leading to	without degree to which impact	• Ensure that	construction tal	es place when the	4 land is fallow and w	vith no crops	Medium	-	Medium to high
economic losses	can be reversed:						arm to lessen the loss of	of crops	
	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:						as well as during the co	nstruction of acc	
	with without	1	3	6	2	8 40	Low Medium	-	Medium to high Medium to high
Loss of land leading to	degree to which impact						arm to lessen the loss of		J
economic losses	can be reversed: degree of impact on irreplaceable resources:				hould discuss compe		nly be during the const	truction phase	
	Nature of impact:				Construction can	disturb activiti	ies on farms		
	with	1	1	2	2	8	Low	_	Medium to high
Impacts on farming	without	1	1	8	3	30	Low	-	Medium to high
activities such as sowing, harvesting, and fire management programmes leading to economic losses	degree to which impact can be reversed:			re this happens, in		ing, construction	activity on farms. In the on can occur after this I cuction	0.	
	degree of impact on irreplaceable resources:				N/A				
	Nature of impact: with	1	1	This ca			members and farmers		Medium to high
	without	1	1	6	3	24	Low	-	Medium to high
Damage to farm infrastructure e.g. irrigation equipment, gates, fences	degree to which impact can be reversed:	is likely to be in fixed. • Where poss	minimum or abs	ent with the exce	otion of farm fences	and gates which	ong any existing roads and the standard of the standard on; where this is not po	ctors should be	
	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:		It is highly likely	that theft of gam	e and stock can occu	r. Theft of gam	e can be higher on far	ms where Rhino	is present
	F		5, ~,			J	<u> </u>		

	with	1	1	2	4	16	Low	-	Medium to high
	without	Construction	should only ta	10 ke place outside th	e hunting season	48	Medium	-	Medium to high
Security concerns as a result of poaching of game, stock theft and crop theft	degree to which impact can be reversed:	 Where possi construction. 	ble, animals sho	ould be fitted with	tracking devices or p		e enclosures for the d		
	degree of impact on irreplaceable resources:		The	impact can be hig	h where endangered	I species such a	s Rhino occur		
	Nature of impact:	The mere pre	esence of contru	uction workers in c		ecially on farms presence	s can lead to unease	and people may f	eel threatened by their
Security as a result of the	with	1	1	2	2	8	Low	-	Medium to high
presence of workers on pfarms and communities	without degree to which impact	2	1	8	3	33	Medium	-	Medium to high
planns and communities	can be reversed:	Advice lando	owners and com	nmunity members	about construction a	and maintenanc	e dates		
	degree of impact on irreplaceable resources:				N/A				
	Nature of impact: with	1	Construction 1	sites are highly ha	rzadous environmen	nts and the safe	ty of people and anin	mals can be compr	omised Medium
	without	1	1	6	2	16	Low	-	Medium
Safety of community members/farm workers/animals	degree to which impact can be reversed:	place near the • Liase with co possible dange	construction si ommunity leade ers of moving cl	tes rs/farm owners to ose to the constru	ensure that they wa	arn community	anguages, placed in a members/farm empl it of construction wo	loyees of the	
	degree of impact on irreplaceable resources:				N/A				
Poor maintenance of the power line access roads:	Nature of impact: with	1	It is possi	ble that access rou 2	ites can be of such po	oor state that n	naintenece of the por	werline is not poss	ible Medium to high
conflict between Eskom	without	1	4	8	4	52	Medium	-	Medium to high
and the landowners on whose responsibility it is to	degree to which impact can be reversed:	• Put a firm ne	egotiated contra	act in place during	the operational phas	se			
do maintenance on these roads. Farmers use it more often but yet expect Eskom	degree of impact on irreplaceable resources:				N/A				
	ı			Cumulative				1	T
Potential Impact	Mitigation Nature of impact:	Extent (E)	Duration (D)	Magnitude (M)	Probability (P)	(S=	ignificance :(E+D+M)*P) e can be higher on fa	(+ve or -ve)	Confidence
Poaching of game	with	2	3	4	3	27	Low	-	Medium to high
impacting on the loss of game and in turn affecting	without degree to which impact	5 Where possib	5 ole, animals sho	8 uld be fitted with t	4 tracking devices or pl	72 laced in secure	High enlosures during the	- contaructionand	High
Municpality and that of the		·			s during maintenance		of the operational ph	nase	
country at large	irreplaceable resources: Nature of impact:	Touri					oowerlines can there	fore spoil this exp	erince for them
Loss of a sense of place resulting in economic	with	1	2	2	2	10	Low	-	Medium to high
losses especially for	degree to which impact	Liase with	4 Visual Impact sp	ecialist to get the			Medium gested measures wo		Medium to high
tourism sector in turn imact on the economic	can be reversed:				with the least adver				
growth of the Makado Municipality	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:	An increase in	n the power su				to the Makhado Loca n turn an improved e		electricity is one of the
Increase in power supply	with	3	4	6	4	52	Medium	+	Medium
and in the stability of the network. In turn numerous	without degree to which impact	3	4	6	4	52	Medium	+	Medium
existing developments	can be reversed:				N/A				
such as lodges and other tourist attractions can be improved.	degree of impact on irreplaceable resources:				N/A				
				No-Go Alte	rantive				
Potential Impact	Mitigation	Extent (E)	Duration (D)	Magnitude (M)	Probability (P)		ignificance :(E+D+M)*P)	Status (+ve or -ve)	Confidence
						1 (0) 10	ding the Tahor and Sr		ne weakest part of the
Powerlines linking the	Nature of impact:	Northern	Grid Network d	ue to being operat Bokmakirie (Nzhe		ility. There is th der to strength	erefore a need for a en the northern grid	new powerline Po	
Powerlines linking the Taborsubstation to the new Bokmakirie (Nzhelele)	with	Northern Taborsubsta	Grid Network d tion to the new 1	ue to being operat Bokmakirie (Nzhe sub	ted beyond its reliabi lele) Substation in or station to accommod	ility. There is the der to strength date the new 40	erefore a need for a en the northern grid OOkV infrastructure Low	new powerline Po	werlines linking the sion of the Bokmakirie Medium to high
Taborsubstation to the new Bokmakirie (Nzhelele) Substation will not be	with without	Northern Taborsubsta	Grid Network d tion to the new	ue to being operat Bokmakirie (Nzhe sub	ted beyond its reliabi lele) Substation in or station to accommod	ility. There is the der to strengthe date the new 40	erefore a need for a en the northern grid OOkV infrastructure	new powerline Po	werlines linking the sion of the Bokmakirie
Taborsubstation to the new Bokmakirie (Nzhelele)	with	Northern Taborsubsta	Grid Network d tion to the new	ue to being operat Bokmakirie (Nzhe sub	ted beyond its reliabi lele) Substation in or station to accommod 1 3	ility. There is the der to strength date the new 40	erefore a need for a en the northern grid OOkV infrastructure Low	new powerline Po	werlines linking the sion of the Bokmakirie Medium to high
Taborsubstation to the new Bokmakirie (Nzhelele) Substation will not be	with without degree to which impact can be reversed:	Northern Taborsubsta 2 4 Construct th	Grid Network dition to the new 1 5 e powerlines	ue to being operal Bokmakirie (Nzhe sub 2 8	ted beyond its reliabi lele) Substation in or station to accommod 1 3 N/A	ility. There is the der to strength date the new 40	erefore a need for a en the northern grid JOkV infrastructure Low Medium	new powerline Po or that the expan	werlines linking the sion of the Bokmakirie Medium to high Medium to high
Taborsubstation to the new Bokmakirie (Nzhelele) Substation will not be	with without degree to which impact can be reversed: degree of impact on	Northern Taborsubsta 2 4 Construct th	Grid Network dition to the new 1 5 e powerlines	ue to being operal Bokmakirie (Nzhe sub 2 8	ted beyond its reliabi lele) Substation in or station to accommod 1 3 N/A	ility. There is the der to strength date the new 40 5 51	erefore a need for a en the northern grid OOkV infrastructure Low Medium pment being shut do	new powerline Po or that the expan	werlines linking the sion of the Bokmakirie Medium to high

No increase in the voltage	without	3	5	8	3	48	Medium	-	Medium
stability	degree to which impact can be reversed:			Ensu	re that the voltage is	stabilised			
	degree of impact on irreplaceable resources:				N/A				
No increase and assurance	Nature of impact:					-	. These can be in the a orth of the Makhado Mo	-	sm, manufacturing, and be compromised.
of electricity supply making it unavailable for		1	1	2	1	4	Low		Medium
agriculture, tourism and	without degree to which impact	3	5	8	4	64	High osed power line and en	-	Medium
other industries as well as	can be reversed:	ilici ease elec	cricity supply th	rough measures so	are well maitain		oseu power line and er	isure triat triese	
allowing for the undertaking of other activities that may not have been possible before. The absence of an increase in electricity may also hinder the undertaking of other activities that may only be possible with electricity supply	degree of impact on irreplaceable resources:	The backlogs a	are caused by fa	ctors such as a lac	N/A N/A	staff shortages	. The rendering of serv	ices that requir	e the use of electricity is
	Nature of impact:				impossible when th				
Continuation of backlogs in	with	3	4	<u>4</u> 8	<u>2</u> 4	14 60	Low	-	Medium to high
electricity connections	without degree to which impact can be reversed:	The Makhad	o Local Municip	ality must put mea	sures in place to red	uce backlogs.	Medium This can include increa adequate material avai		Medium to high
	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:				icity can result in los				1
Continuation of the	with without	3	1 5	0 10	2 4	72	Low High	-	Medium Medium
inadequate provision of electricity to critical services such as health	degree to which impact can be reversed:						erline can ensure that a	adverse impacts	inculum
facilities	degree of impact on irreplaceable resources:				N/A				
Continuation of the	Nature of impact:						These include the cutti eforestation and the p		e the wood for heating rotected species.
unavailability of electricity	with	1	1	2	2	8	Low		Medium
in numerous rural	without	3	5	8	4	64	High	-	Medium
settlements	degree to which impact can be reversed:			Pro	ovide electricity to ru	ral areas			
	degree of impact on irreplaceable resources:				N/A				

Social Impacts - Alternative 2

					n Phase				
Potential Impact	Mitigation	Extent (E)	Duration (D)	Magnitude (M)	Probability (P)	(S=	gnificance (E+D+M)*P)	Status (+ve or -ve)	Confidence
	Nature of impact:				g this route will main be the driving force b			larmony. Low e	mployment rates in the
	with	3	1	0	2	8	Low	-	Medium to high
	without	3	2	4	4	36	Medium	-	Medium to high
Influx of job seekers, mainly unskilled labour, from the communities around the power line route having job expectations	degree to which impact can be reversed:	Identify poss Communicat Ensure that of jobs for con Where the jother communit Where possiconstruction eperiod elapses Have clear restablish stand	sibilities and cre tion strategy we there is a Comm munity memb journed to avoid lible, ensure tha e.g for vegetatic s, other commu ules and regulat dard operating	ell in advance of pr nunity liaison office ers e.g vegetation identified, these moitering. t all interested cor on clearing, each con nity members sho tions for access to procedures for the	lesk 4 months before oject start er from affected com clearing, food vendo nust also be formalise mmunity members ge ommunity member ca uld be given an oppo the camp / site office	munities and to rs ed through issui et an opportunit an be allocated rtunity to also v e to control loite oval of loiterers	ogether with them studing of permits to avoid of the towark on the project a period of working an work and generate somering. Consult with the lat the construction site	conflicts within ct during d when this e impact local SAPS to	
	degree of impact on				N/A				
	irreplaceable resources: Nature of impact:	If	toilet facilities	on site are not wel	<u> </u>	lead to advers	e health impacts to the	Surrounding	nmmunities
	with	1	1	0	1	2	Low	- surrounding co	Medium to high
	without	1	1	6	3	24	Low	-	Medium to high
Health Impacts as a result of exposure to sewage from construction camps and on construction camps	degree to which impact can be reversed:	 Pit latrines a must be suffic The toilets si done through shall be service 	re prohibited o ient for all worl hall be emptied measures such ed on a regular	n the construction kers at a ratio of 1 and cleaned regul as covering the gr	toilet to 15 persons a larly and the contract ound with a water pr ecessary replaced.	mobile or portaind provided wi tor shall ensure	able toilets shall be use	d. This can be	
	degree of impact on irreplaceable resources:				N/A				
	irreplaceable resources: Nature of impact:				ommunity members		nd also pose a danger to		
	irreplaceable resources:	Waste on 1 1	site can becom	e a nuisance for co	·	and on farms ar 2 15	nd also pose a danger to Low Low	o the health of - -	people and animals High High
Health Impacts as a result of exposure to waste (domestic and industrial)	irreplaceable resources: Nature of impact: with	Littering on: Fines could be Waste shall overflowing. T	site should be post implemented be collected at the containers with the containers wit	0 2 prohibited and the d for littering" regular intervals in	ommunity members : 1 3 ECO should inspect t	2 15 his at will removed	Low	- - pefore	High
of exposure to waste	irreplaceable resources: Nature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources:	Littering on: Fines could be Waste shall overflowing. T from the site a	1 2 site should be p be implemented be collected at 'he containers v and any reusabl	0 2 prohibited and the d for littering" regular intervals in vill then be dispose e or recyclable wa	bommunity members : 1 3 ECO should inspect to a sealed containers the dof at recognised faste identified N/A	2 15 his at will removed acilities. The wa	Low Low I from site and camps be steen shall be separated be	- - pefore pefore removal	High High
of exposure to waste	irreplaceable resources: Nature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact:	Littering on: Fines could be Waste shall overflowing. T from the site a	1 2 site should be p be implemented be collected at 'he containers v and any reusabl	0 2 prohibited and the d for littering" regular intervals in vill then be dispose e or recyclable wa	bommunity members : 1 3 ECO should inspect to a sealed containers the dof at recognised faste identified N/A	2 15 his at will removed acilities. The wa	Low Low d from site and camps b	- - pefore pefore removal	High High
of exposure to waste	irreplaceable resources: Nature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources:	Littering on: Fines could be Waste shall overflowing. T from the site a	1 2 site should be p be implemented be collected at 'he containers v and any reusabl	0 2 prohibited and the d for littering" regular intervals in vill then be dispose e or recyclable wa	bommunity members : 1 3 ECO should inspect to a sealed containers the dof at recognised faste identified N/A	2 15 his at will removed acilities. The wa	Low Low I from site and camps be steen shall be separated be	- - pefore pefore removal	High High
of exposure to waste	irreplaceable resources: Nature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact: with	Littering on a Fines could be Waste shall overflowing. T from the site a waste shall overflowing. T from the site a waste shall overflowing. T from the site a waste shall overflowing. The workers and c "Condoms shall on the waste shall overflow shall on the waste shall on the waste shall be	truction worker tructi	o 2 orohibited and the d for littering" regular intervals in will then be dispose e or recyclable was a resident of the same of the aware of the aw	bommunity members: 1 3 ECO should inspect to a sealed containers the dof at recognised faste identified N/A infectious diseases, 2 3 arign should be launched as a sealed containers the domain and the control of the construction worked them becoming finances in return for finances in return for finances.	these can be posed to points and but of condoms. The ers should be encially independical favours, workers from expressions and the ers should be encially independical favours.	assed on to the commu Low Low uld be directed at all converse distribution of condorn powered through meaning and/or loweither visiting and/or lowed.	perfore removal sunity members of the contraction workers as should be assures such as their likelihood	High High
of exposure to waste (domestic and industrial) Health impacts from construction sites and camps as a result of	irreplaceable resources: Nature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact: with without degree to which impact	Littering on a Fines could be Waste shall overflowing. T from the site a waste shall overflowing. T from the site a waste shall overflowing. T from the site a waste shall overflowing. The workers and c "Condoms shall on the waste shall overflow shall on the waste shall on the waste shall on the waste shall be waste shal	truction worker tructi	o 2 orohibited and the d for littering" regular intervals in will then be dispose e or recyclable was a resident of the same of the aware of the aw	ECO should inspect to a sealed containers the dof at recognised faste identified N/A ninfectious diseases, 2 3 anign should be launched as a sealed containers the dof at recognised faste identified	these can be posed to points and but of condoms. The ers should be encially independical favours, workers from expressions and the ers should be encially independical favours.	assed on to the commu Low Low uld be directed at all converse distribution of condorn powered through meaning and/or loweither visiting and/or lowed.	perfore removal sunity members of the contraction workers as should be assures such as their likelihood	High High
of exposure to waste (domestic and industrial) Health impacts from construction sites and camps as a result of	irreplaceable resources: Nature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact: with without degree to which impact can be reversed:	Littering on a Fines could be Waste shall overflowing. The from the site of th	truction worker	orohibited and the difference of the difference of the dispose or recyclable was a result of the difference of the diffe	bommunity members: 1 3 ECO should inspect to a sealed containers the dof at recognised feater identified N/A Infectious diseases, 2 3 arign should be launched as a centrally locate lability and location of the construction worked them becoming finance in return for finance in retu	these can be posed to the second be points and be found on the second be points and be found on the second found be encially independial favours, workers from the second be read to the second be points and be the second be second for the second be second for the second be second for the sec	assed on to the commu Low Low uld be directed at all converse distribution of condorn powered through meaning and/or loweither visiting and/or lowed.	perfore removal mity members of the contraction workers as should be assures such as their likelihood itering at the	High High or farm workers in the
of exposure to waste (domestic and industrial) Health impacts from construction sites and camps as a result of	irreplaceable resources: Nature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact: with without degree to which impact can be reversed:	Littering on a Fines could be Waste shall overflowing. The from the site of th	truction worker	orohibited and the difference of the difference of the dispose or recyclable was a result of the difference of the diffe	bommunity members: 1 3 ECO should inspect to a sealed containers the dof at recognised feater identified N/A Infectious diseases, 2 3 arign should be launched as a centrally locate lability and location of the construction worked them becoming finance in return for finance in retu	these can be posed to the second be points and be found on the second be points and be found on the second found be encially independial favours, workers from the second be read to the second be points and be the second be second for the second be second for the second be second for the sec	assed on to the commu Low Low uld be directed at all concept the distribution of condorn powered through meant and in turn reduce either visiting and/or logetained	perfore removal mity members of the contraction workers as should be assures such as their likelihood itering at the	High High or farm workers in the

relationships between community members/ farm workers and Eskom Construction workers can result in issues such as sexual misconduct and the spread of sexually	degree to which impact can be reversed:	permission fro • An Environm	om the site offic nental Control C	er/ Environmental	Control Officer (ECO be appointed to ensu)	inel are to enter the si		
transmitted diseases	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:		•				eliefs and cultural bad		
	with without	2	1	6	2	10 36	Low Medium	-	Low
					•	•	nel are to enter the si	ite without	2011
Conduct of construction workforce; Bad relationships between community members/ farm workers and Eskom Construction workers leading to violence	degree to which impact can be reversed:	Permission from the An Environm way. A fining soLiasing with can be avoided	om the site offic nental Control C system for non- the local police d	er/ Environmental officer (ECO) must l compliance must b and having securit	Control Officer (ECO be appointed to ensu- se set in place; by personnel on the s) ire contractors ite will ensure t	conduct themselves in hat any possible erup • As far as poss een the locals and cor	n an appropriate tion of violence ible, locals	
	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:	Material can	be stolen from	construction sites	_	ne route especia that are in oper		n powerlines is o	ften stolen even along
	with	1	1	0	1	2	Low		Medium
	without	2	1	8	4	44	Medium	-	Medium
Theft of material from camps and along construction sites	degree to which impact can be reversed:	security perso fence shall be shadecloth cal practicable. St • In addition t	nnel. The fence inspected on a n be attached to orage facilities o the above, all	shall be construct daily basis and any o the fence and sin shall be lockable.	ed of high quality may damages should be nilar to the fence, sha es entering or leaving	aterial bearing t fixed as soon as all be inspected	lled through a lockabl he SABS mark. Furthe s it is practicable. To in daily and fixed as soo on camp shall be subje	rmore, the ncrease security, on as it is	
	degree of impact on irreplaceable resources:								
	Nature of impact:					project		rtant to their live	lihoods will oppose the
Nogative attitudes towards	with without	2	1	6	3	10 27	Low Low	-	Medium Medium
Negative attitudes towards the project and the formation of community groups, NGO's, in response to the project;	degree to which impact can be reversed:	Ensure that can contact sh	there is ongoing	communication w		ies and provide	e contact details of per	rsons that they	
	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:		1	This would I					
	with without	1					are opposed to the pro		D. A. c. aliverse
Land owners denying contractors access to their		1		2	2	8	Low	oject -	Medium Medium
properties	degree to which impact can be reversed:		2 be communicat	2 6 ion with landowne	2 4 ers in regards to proce	8 36 edures for ente	Low Medium	-	Medium Medium
		There must	2 be communicat	2 6 ion with landowne	2 4 ers in regards to proce	8 36 edures for ente	Low Medium ring onto farms	-	
	can be reversed: degree of impact on	There must Eskom must	2 be communicat t ensure that lar	2 6 ion with landowne ion owners are info	2 4 rrs in regards to proc rmed of the construct	8 36 edures for ente- tion dates as w	Low Medium ring onto farms	- - enance	Medium
	can be reversed: degree of impact on irreplaceable resources: Nature of impact: with	There must Eskom must	2 be communicatite ensure that lar	2 6 ion with landowne ad owners are info	2 4 rrs in regards to procured of the construction N/A the clearing of the p	8 36 edures for entetion dates as w	Low Medium ring onto farms rell as dates for mainte or and during the con	enance	Medium powerline Medium to high
	can be reversed: degree of impact on irreplaceable resources: Nature of impact:	There must Eskom must	2 be communicat t ensure that lar	2 6 ion with landowne id owners are info can be lost during	2 4 ers in regards to procerrined of the construct N/A the clearing of the p	8 36 edures for entetion dates as w	Low Medium ring onto farms ell as dates for mainte or and during the con	- - enance	Medium
	can be reversed: degree of impact on irreplaceable resources: Nature of impact: with	• There must • Eskom must 1 1 • Ensure that • Where poss • Where pown fallow and wit • Discuss with	Land and crops 1 3 construction tal ble, powerline te er lines can't be the no crops land owners the	2 6 ion with landowners are info can be lost during 2 6 ess place when the cowers should be leplaces along proper	2 4 rs in regards to procured of the construction of the construction of the part of the p	edures for ente- ction dates as w sowerline corrid 8 40 with no crops undary of the fa ure that constructe the construction	Low Medium ring onto farms rell as dates for mainte or and during the con	enance	Medium powerline Medium to high
properties Loss of crops leading to	can be reversed: degree of impact on irreplaceable resources: Nature of impact: with without degree to which impact	• There must • Eskom must 1 1 • Ensure that • Where poss • Where pown fallow and wit • Discuss with	Land and crops 1 3 construction tal ble, powerline te er lines can't be the no crops land owners the	2 6 ion with landowners are info can be lost during 2 6 ess place when the cowers should be leplaces along proper	2 4 rs in regards to procured of the construction of the construction of the construction of the part	edures for ente- ction dates as w sowerline corrid 8 40 with no crops undary of the fa ure that constructe the construction	Low Medium ring onto farms rell as dates for mainte for and during the con Low Medium rm to lessen the loss of action takes place whe	enance	Medium powerline Medium to high
properties Loss of crops leading to	can be reversed: degree of impact on irreplaceable resources: Nature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact:	There must Eskom must 1 Ensure that Where posw fallow and wit Discuss with farming can st	2 be communicat t ensure that lar Land and crops 1 3 construction tal ible, powerline tel er lines can't be h no crops land owners th ill occur below to	2 6 ion with landowners are info can be lost during 2 6 exes place when the cowers should be leplaces along proper at the loss of land the powerline after the powerline after the lost due:	2 4 rs in regards to procured of the construction has er N/A the clearing of the p 2 4 eland is fallow and wocated along the bouerty boundaries, ensive will only be during the construction has er N/A to clearing of land fo	B 36 edures for entection dates as we sowerline corrid B 40 which no crops undary of the faure that construction haded	Low Medium ring onto farms rell as dates for mainte or and during the con Low Medium rm to lessen the loss of	enance struction of the part of crops en the land is sies such as crop	powerline Medium to high Medium to high
properties Loss of crops leading to	can be reversed: degree of impact on irreplaceable resources: Nature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources:	• There must • Eskom must 1 1 • Ensure that • Where poss • Where powd fallow and wit • Discuss with farming can st	Land and crops 1 3 construction tal ble, powerline te er lines can't be h no crops land owners th ill occur below to	2 6 ion with landowners are info can be lost during 2 6 exes place when the towers should be leplaces along proper at the loss of land the powerline afte	2 4 rs in regards to procured of the construction has en	B 36 edures for ente- ction dates as w cowerline corrid B 40 cith no crops undary of the fa ure that construction ne construction inded	Low Medium ring onto farms rell as dates for mainte for and during the con Low Medium rm to lessen the loss of action takes place who phase as some activit	enance struction of the part of crops en the land is sies such as crop	powerline Medium to high Medium to high

economic iosses	degree to which impact can be reversed:	 Discuss with as some activ 	h land ov vities suc	wners th	at the loss of some p farming can still	e land may be tempo	orary and will or verline after cor	orm to lessen the loss or aly be during the construction has ended; in	ruction phase	
	degree of impact on irreplaceable resources:	Where the	loss of la	and is pe	rmanent, Eskom sl	hould discuss compe	nsation with la	ndowner		
	Nature of impact:					Construction can				
-	with without	1		1	2 8	3	8 30	Low Low	-	Medium to high Medium to high
	degree to which impact can be reversed:				re this happens, ir		ing, constructio	ctivity on farms. In the n can occur after this h uction		
i	degree of impact on irreplaceable resources:					N/A				
	Nature of impact: with	1		1	This ca	n lead to conflicts wi	th community 4	members and farmers		Medium to high
	without	1		1	6	3	24	Low	-	Medium to high
	degree to which impact can be reversed:	is likely to be fixed. • Where pos	minimu	m or abs	sent with the excep	ption of farm fences	and gates whic	ng any existing roads a h if damaged by contac on; where this is not po	tors should be	
i	degree of impact on irreplaceable resources:		la in hin	hh. lileah	, that that's af age	N/A	That at some	a an ha hishar an farm	aa uuhana Dhina	
	Nature of impact: with	1		niy likely 1	that theft of gam 2	e and stock can occu	r. Theft of gam	e can be higher on farm Low		Medium to high
result of poaching of game, stock theft and crop theft	degree to which impact can be reversed:	 Where poss construction. 	sible, ani r can also	imals sho		tracking devices or p		enclosures for the dur		
	degree of impact on irreplaceable resources:	The mere nr	esence			h where endangered			nd neonle may f	eel threatened by their
	Nature of impact:	The mere pr	esence c	or contro	action workers in c	ommunicies and esp	presence	s can lead to unlease an	iu people may i	eer tilleateried by triell
	with without	2	_	1	2 8	3	33	Low Medium	-	Medium to high Medium to high
Security as a result of the presence of workers on	degree to which impact can be reversed:	Advice land Upon arrivirespectively Ensure that logos and a p Constructio inspect these The landow on site. provide the to report any	lowners and in a construction worker should be landown as suspicio	and communication working the street was should be all the street and the street was behavior and the street was s	nmunity members ty or farm, worker orkers are easily id a worker. Construct d also carry their lead to check the d community mem aviour on their pro	entifiable by constru tion vehicles must al dentity documents w e identification cards bers should be prov	of workers exper community leader ction uniform wilso be marked with them and the and note the re ided with contagoresence of wh	cted er and farm owners or r with logos and identifica- ne land owner should b sames of construction v act details of Eskom and at seem to be unauthon	eation cards with the allowed to vorkers present the local SAPS	
I	degree of impact on irreplaceable resources:					N/A				
	Nature of impact:	1		truction 1	sites are highly ha	rzadous environmen	nts and the safe	ty of people and anima	ls can be compr	omised Medium
	with		_	1	6	2	16	Low	-	Medium
	with without	1								
Safety of community members/farm		Ensure that place near the Liase with consible danger	the con e constru communi gers of m	uction si ity leade noving cl	tes rs/farm owners to ose to the constru	ensure that they wa	arn community	anguages, placed in a c members/farm employ t of construction works	ees of the	
Safety of community members/farm workers/animals	without degree to which impact	Ensure that place near the Liase with consible danger	the con e constru communi gers of m	uction si ity leade noving cl	tes rs/farm owners to ose to the constru	ensure that they wa	arn community	members/farm employ	ees of the	

	without	1	4	8	4	52	Medium		Medium to high
	without	1	4	٥	4	52	Wedium		Medium to mgn
Poor maintenance of the power line access roads: conflict between Eskom	degree to which impact can be reversed:	• Put a firm n	egotiated contr	act in place during	the operational pha	se			
and the landowners on whose responsibility it is to do maintenance on these roads. Farmers use it more often but yet expect Eskom to pay for all maintenance	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:	The pres	ence of powerli	nes particularly in	tourist attractions ca	an result in tou	ırists no longer visiting	g the area as their	views will be spoilt
Loss of a sense of place/income on game	with without	1 1	1 1	2 8	2 4	8 40	Low Medium	-	Medium to high Medium to high
farms – Tourists want to see "Africa"and the power line can disturb the rustic African setting;	degree to which impact can be reversed:	Choose thos	se corridors that	t will have the leas	ng season is avoided; t impact on the gam r close to game farm	ing industry;			
	degree of impact on irreplaceable resources:								
				Operationa	l Phase				
Potential Impact	Mitigation	Extent (E)	Duration (D)	Magnitude (M)	Probability (P)		Significance =(E+D+M)*P)	Status (+ve or -ve)	Confidence
	Nature of impact:								tted on some properties
	with	1	3	2	1	6	Low	-	Medium
	without	1	5	4	2	20	Low	-	Medium
Perceived electromagnetic fields impacts on humans and animals during the operational phase	degree to which impact can be reversed:	 Ensure that communities 	there are no de are not paces a	evelopments belov t risk.		nat although a	s dverse impacts are un ced below powerlines		
	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:	The pres	ence of powerli	nes particularly in	tourist attractions ca	an result in tou	rists no longer visiting	g the area as their	views will be spoilt
Loss of a sense of	with without	3	4	2	3	12 60	Low	-	Medium
place/income on game farms – Tourists want to see "Africa" and the power line can disturb the rustic	degree to which impact can be reversed:	Plan mainte	nance so that h	8 nunting season is a t will have the leas	•		Medium	-	High
African setting;	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:		It is possi	ble that access rou	ites can be of such p	oor state that	maintenece of the po	werline is not pos	sible
Poor maintenance of the	with	1	1	2	2	8	Low	-	Medium to high
power line access roads: conflict between Eskom	without degree to which impact	1	4	8	4 N/A	52	Medium	-	Medium to high
and the landowners on whose responsibility it is to do maintenance on these roads. Farmers use it more often but yet expect Eskom to pay for all maintenance	degree of impact on irreplaceable resources:	Put a firm neg	otiated contrac	t in place during tl	ne operational phase	,			
	Nature of impact:						esult and in turn elect	ricty outages may	
	with without	4	5	6	4	10 60	Low Medium		Medium to high Medium to high
Impact of the power lines on aircraft as there are airports within the study area; one is the Louis Trichardt airport and the other is for light aircraft on the road towards Waterpoort from Louis	degree to which impact can be reversed:	Information issue;Consult legisEnsure that	not available o slative restrictic powerlines are	n Louis Trichardt a ons and possible pe clearly visible to a	irport. National aviatermit application.	tion should pro	ovide information on s	seriousness of this	
Trichardt	degree of impact on irreplaceable resources:				N/A				
Decree in the	Nature of impact:					ad to econom			
Decrease in property values and number of	with	2	3 5	6	3	8 39	Low Medium	-	Medium to high Medium to high
visitirs to lodges and other	without degree to which impact					el e		<u> </u>	wedium to nigh
areas that are popular with	can be reversed:	vegetation	can be used to	screen the power	lines and other meas	ures can be di	scussed with Visual In	npact Specialist	
tourists due to the visual impacts of powerlines	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:								Is an alternative
	with without	1	1	4	4	8 24	Low	-	Medium to high High

Security issues as a result of the presence of maintenance workers on properties	degree to which impact can be reversed:	with ph maintenance liase with lan them about	notographs. The e workers prese downers to adv the number of	landowner should ent on site. Even w ice them on the da personell expected	I be allowed to chec ith mitigation howen ites of construction d, the landownwer o	k the identificat ver, farmers ma of the powerling an also be prov	hes with logos and id ion cards and note th y still feel unsafe on t e on his propoerty as ided with contact det : seem to be unathori	e names of heir properties; well as informing ails of Eskom to	
	degree of impact on irreplaceable resources:	терог а			h where endangered			seu persons	
	Nature of impact:				This can result in	maintenance r	not occuring		
	with without	1	1	2	2 4	8	Low	-	Medium
Land owners denying contractors access to their properties	degree to which impact can be reversed:	the procedur necessary	es.eg it can be a , providing ther	agreed that, farme m with spare keys t	ocedures for enterin rs must not to chang for easy access to th	ge locks to gates eir properties d	Medium oth Eskom and farme without informing Es uring maitenance. Des on the route on his pro	skom, and where spite this, the	High
	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:			_		a high probabili			I
	with without	1	1	0 2	2	2 8	Low	-	Medium to high Medium to high
Poaching of game as well as stock theft and theft of crops	degree to which impact can be reversed:					and may not ha	elihood for activities s ave the time to plan a		Ţ.
	degree of impact on irreplaceable resources:				N/A				
	Nature of impact: with	1	1	During the opera	tional phase, impact	s on farm actvit	ties are likely to be ve	ry minimal	Medium to high
	without	1	1	2	1	4	Low	-	Medium to high
Impact on farming activities such as sowing, harvesting, and fire management programmes leading to economic losses	degree to which impact can be reversed:		a significantly	shorter duration, b	out must at all costs	be avoided. This	uction, the impacts or s can be through mea high activity on farms	sures such as	
	degree of impact on irreplaceable resources:				N/A				
Impact on farming	Nature of impact:	During t	he operational	phase, impacts on	actvities and on gue	ests to lodges ar	nd other tourist destn	iations are likely t	o be very minimal
	with	1	1	0	1	2	Low	-	Medium to high
game farms leading to economic losses. Impacts	without degree to which impact	1	1	2	1	4	Low	-	Medium to high
can also be on guests in lodges leading to economic	can be reversed:								
losses	degree of impact on irreplaceable resources:				N/A				
	Nature of impact: with		An i	ncreased voltage v	vill ensure that activ	ities that were	not able to take place	will be possible	
Increase in the voltage	without degree to which impact	3	5	8	5	80	High	+	Medium
stability	can be reversed:				N/A				
	irreplaceable resources:	Po	liable electricity	supply is a positive	N/A e impact that will im	prove activities	such as touriam in th	ne Makhado Local	Municipality
	with	3	4	2	4	36	Medium	+	Medium
An assurance of a reliable electricity supply	without degree to which impact can be reversed:	2	1	6	4 N/A	36	Medium	+	Medium
,	degree of impact on irreplaceable resources:				N/A				
Increase of electricity	Nature of impact:			In order to grow	the economy of the	Makhado Loca	Municipality, electri	city is vital	
supply making it available for agriculture, tourism	with without	3	5	8	5	80	High	+	Medium
·	degree to which impact can be reversed:				N/A				
also allow for the undertaking of other activities that may have	degree of impact on irreplaceable resources:				N/A				
	Nature of impact: with	The absence	ce of backlogs in	electricy connect	ions can imply that a	ctivities that ca	n only take place who	ere electicity is pr	esent will be possible
	without	3	5	8	5	80	High	+	Medium
No more backlogs in electricity Connections	degree to which impact can be reversed:				N/A				
Establis Connections	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:								
The inadequate provision	with without	3	5	8	5	80	High	+	Medium
		,		·			111811		

of electricity to services such as health facilities will	degree to which impact				N/A				
cease	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:		Th	ne presence of elec	ctricity to rural areas	will improve the	e lives of many who live	e in poverty	
	with								
Electricity will be available to numerous rural	without degree to which impact	3	5	8	5	80	High	+	Medium
settlements that do not	can be reversed:				N/A				
have this service	degree of impact on irreplaceable resources:				N/A				
			D	ecommissior	ning Phase				
Potential Impact	Mitigation	Extent	Duration	Magnitude	Probability		gnificance	Status	Confidence
	Nature of impact:	(E) Creating empl	(D) oyment expecta	(M) ations for job seek	(P)	(5=((E+D+M)*P)	(+ve or -ve)	
	with	1	1	0	1	2	Low	-	Medium to high
	without	1	2	2	2	10	Low	-	Medium to high
Influx of job seekers	degree to which impact can be reversed:	Identify poss Communical Ensure that of jobs for cor Where the j the communit Where possi decommissior community m Have clear ri establish stand	sibilities and cre tion strategy we there is a Comm munity memb- joy and to avoid I ible, ensure tha ninge.g, each co embers should ules and regulat dard operating I	ation of a liaison of all in advance of de nunity liaison officers e.g., food vend identified, these moitering. tall interested community member be given an opporcions for access to procedures for the	ors nust also be formalise mmunity members ge can be allocated a po tunity to also work at the camp / site office	. munities and to d through issuit et an opportunit eriod of working nd generate son to control loite oval of loiterers	ogether with them studing of permits to avoid of y to work on the project and when this period ne impact. Iring. Consult with the lat the construction site	conflicts within ct during elapses, other	
	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:	If	toilet facilities	on site are not wel	Il managed, these car	lead to advers	e health impacts to the	surrounding co	ommunities
	with	1	1	0	1	2	Low	-	Medium to high
Health Impacts as a result	without	1 •Workers are	nrohibited from	6 Lusing their surro	3 undings to relieve the	24 emselves	Low	-	Medium to high
of exposure to sewage from construction camps	degree to which impact can be reversed:						able toilets shall be use	d and these	
and on construction sites	can be reversed.	must be suffic	ient for all work	ers at a ratio of 1	toilet to 15 persons a	and provided wi	th toilet paper.		
	degree of impact on irreplaceable resources:				N/A				
	Nature of impact: with	Where cons	truction worker 1	s are infected with 2	n infectious diseases, 2	these can be pa	essed on to the commu	nity members o	or farm workers in the
Health impacts from	without	2	1	6	3	27	Low	-	
construction sites and camps as a result of infectious diseases	degree to which impact can be reversed:		HIV/AIDS and ST communities as		aign should be launch	ned. These shou	lld be directed at all co	nstruction	
	degree of impact on irreplaceable resources:				N/A				
Conduct of construction	Nature of impact:	It is possibl	e that because	of good relationsh	ips between contacto	ors and commun	nity members, negative	as well as posi	tive actions can arise Medium to high
workforce; Good	without	2	1	6	4	36	Medium	-	Medium to high
relationships between community members/ farm workers and Eskom Construction workers can result in issues such as sexual misconduct and the spread of sexually	degree to which impact can be reversed:	permission fro • An Environm	om the site offic nental Control C	er/ Environmental	Control Officer (ECO be appointed to ensu)	nel are to enter the site		
transmitted diseases	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:						eliefs and cultural back	grounds	
	with without	2	1	6	2	10 36	Low Medium	-	Low
Conduct of construction workforce; Bad relationships between community members/ farm workers and Eskom Construction workers leading to violence	degree to which impact can be reversed:	In the Environment An Environment Way. A fining s	onmental Mana om the site offic nental Control C system for non- the local police	gement Plan (EMP er/ Environmental officer (ECO) must compliance must b) ,state that no unaud Control Officer (ECO be appointed to ensure se set in place;	thorised person) ure contractors o	nel are to enter the site conduct themselves in that any possible erupti	e without an appropriate	
	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:	Material ca	ın be stolen fror	n the sites where (decommissioning is t	aking place as m	naterial used in electric	ity is often the	targeted by criminals
Theft of material from	with	1	1	0	1	2	Low	-	Medium
camps and along	without	2	1	8	4	44	Medium	L -	Medium
construction sites	degree to which impact can be reversed:						lled through a lockable he SABS mark. Further		
	degree of impact on irreplaceable resources:								

	Nature of impact:		Crops can	be lost during the	clearing of the powe	rline corridor a	nd during the construct	ion of the powe	erline
	with	1	1 1	2	2	8	Low	-	Medium to high
Loss of crops leading to	without	1	3	6	4	40	Medium	-	Medium to high
economic losses	degree to which impact can be reversed:				e land is fallow and w		rm to lessen the loss of	ferone	
		• where poss	ible, powerline	towers snould be i	ocated along the bol	unuary or the ra	illi to lessell the loss of	crops	
	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:				Construction can	disturb activitie	es on farms		
	with	1	1	2	2	8	Low		Medium to high
Impacts on farming	without	1	1	8	3	30	Low		Medium to high
activities such as sowing, harvesting, and fire management programmes leading to economic losses	degree to which impact can be reversed:		truction can occ	ur before this hap	-	harvesting, dec	high activity on farms. commissioning can occumissioning		
	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:						members and farmers		1
	with without	1	1	6	3	24	Low Low	-	Medium to high Medium to high
	- Inches	-	_						medium to mgn
Damage to farm infrastructure e.g. irrigation equipment, gates, fences	degree to which impact can be reversed:	is likely to be fixed. • Where pos	minimum or ab	sent with the excep	ption of farm fences	and gates which	ng any existing roads a: n if damaged by contact on; where this is not pos	tors should be	
	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:		It is highly likely	that theft of gam	e and stock can occu	ır. Theft of gam	e can be higher on farm	ns where Rhino	is present
	with	1	1	2	4	16	Low	-	Medium to high
	without	1	1	10	4	48	Medium	-	Medium to high
Security concerns as a result of poaching of game, stock theft and crop theft	degree to which impact can be reversed:	 Where poss construction. 	can also appoir		tracking devices or p		enclosures for the dur		
	degree of impact on irreplaceable resources:		The	impact can be hig	h where endangered	I species such as	s Rhino occur		
	Nature of impact:							d people may f	eel threatened by their
	with without	2	1	<u>2</u> 8	3	8 33	Low Medium	-	Medium to high Medium to high
Security as a result of the presence of workers on	degree to which impact	_	·			<u> </u>			
pfarms and communities	can be reversed:	Advice land	owners and con	nmunity members	about construction a	and maintenanc	e dates		
	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:	The mer	e presence of co	ontruction workers	in communities and	l especially on fa	arms can lead to uneas	e and people m	ay feel threatened
Safety of community	with	1	1	2	1	4	Low	-	Medium
members/farm	without degree to which impact	Ensure that	the constructio	6 n sites and camps a	2 are fenced off and si	16 gnage, in local l	Low anguages, placed in a co	onspicuous	Medium
workers/animals	can be reversed:		e construction s						
	degree of impact on irreplaceable resources:			C	N/A				
	l	Extent	Duration	Cumulative Magnitude	Probability		gnificance	Status	
Potential Impact	Mitigation	(E)	(D)	(M)	(P)		(E+D+M)*P)	(+ve or -ve)	Confidence
	Nature of impact:		It is highly likely	that theft of gam	e and stock can occu	r. Theft of game	e can be higher on farm		
Poaching of game impacting on the loss of	with without	5	3 5	8	3	27 72	Low High		Medium to high High
game and in turn affecting			-				enlosures during the co	ntaructionand	
the tourism industry of the	can be reversed:						of the operational phas		
Municpality and that of the country at large	degree of impact on irreplaceable resources:				where endangered s				
Loss of a sense of place	Nature of impact: with	Touri	ists visit places t	o relax and be imn	nersed in naturem th 2	ne presence of p	oowerlines can therefor	e spoil this exp	erince for them Medium to high
resulting in economic losses especially for	without	3	4	6	3	39	Medium	-	Medium to high
tourism sector in turn	degree to which impact	Liase with	Visual Impact sp	_	-	_	gested measures would	be to use a	
imact on the economic growth of the Makhado Municipality	can be reversed: degree of impact on irreplaceable resources:			tower type	e with the least adve	rse visual impac	.t		
		An increase i	n the power su	pply and in the sta	bility of the network	would be vital			electricity is one of the
	Nature of impact:	An increase i		hindrances to	the development of	f the area and in	turn an improved eco	nomv	
	Nature of impact:	3	4	hindrances to	the development of	f the area and ir	turn an improved ecor	nomy +	Medium
Increase in power supply	with without								Medium Medium
Increase in power supply and in the stability of the network. In turn numerous	with	3	4	6	4	52	Medium	+	

existing developments such as lodges and other tourist attractions can be improved.	degree of impact on irreplaceable resources:				N/A				
				No-Go Alte	rantive				
Potential Impact	Mitigation	Extent	Duration	Magnitude	Probability		ignificance	Status	Confidence
Powerlines linking the Taborsubstation to the	Nature of impact:	Northern	Grid Network	lue to being operat Bokmakirie (Nzhe	ted beyond its reliab	ork (CLN), includility. There is the	erefore a need for a en the northern grid	new powerline Po	ne weakest part of th werlines linking the sion of the Bokmakiri
new Bokmakirie (Nzhelele)	with	2	1	2	1	5	Low	-	Medium to high
Substation will not be	without	4	5	8	3	51	Medium	-	Medium to high
constructed.	degree to which impact can be reversed:	Construct th	e powerlines						
	degree of impact on irreplaceable resources:				N/A				
N. Commission	Nature of impact:	The voltage i	s currently unst		ult in impacts such a the inability to unde			own leading to effe	cts such as loss of da
No increase in the voltage stability	with	1	1	2	1	4	Low	-	Medium
Stability	without	3	5	8	3	48	Medium	-	Medium
	degree to which impact can be reversed:			Ensu	ire that the voltage i	s stabilised			
	degree of impact on irreplaceable resources:				N/A				
No increase and assurance								agricultural,touris	m, manufacturing, a
f electricity supply making		1	1	2	1	4	Low	-	Medium
it unavailable for agriculture, tourism and	without degree to which impact	3 Increase elec	5 tricity supply th	8 Irough measures su	4 uch as the constructi	on of the propo	High osed power line and (ensure that these	Medium
other industries as well as allowing for the undertaking of other activities that may not	can be reversed: degree of impact on irreplaceable resources:				are well maitain	ed			
	Nature of impact:	The backlog	s are caused by	factors such as a l	ack of funds and st impossible when th	_	_	ices that require t	he use of electricity is
	with	2	1	4	2	14	Low	-	
Continuation of backlogs in electricity connections	without	3	4	8	4	60	Medium	-	
electricity connections	degree to which impact can be reversed:						This can include increadequate material av		
	degree of impact on irreplaceable resources:				N/A				
Carliana Nana afaha	Nature of impact:	In services suc	ch as health fac	ilities, lack of elect	ricity can result in lo	sses of lives			
Continuation of the inadequate provision of	with	1	1	0	2	4	Low	-	
electricity to critical	without	3	5	10	4	72	High	-	
services such as health facilities	degree to which impact can be reversed:	The necessity	of electricity to	critical services is	imperative and the are avoided	proposed powe	erline can ensure that	t adverse impacts	
Tacilities	degree of impact on irreplaceable resources:				N/A				
Continuation of the	Nature of impact:						These include the cut eforestation and the	_	e the wood for heatir otected species.
unavailability of electricity	with	1	1	2	2	8	Low	-	Medium
in numerous rural	without	3	5	8	4	64	High	-	Medium
settlements	degree to which impact can be reversed:			Pro	ovide electricity to ru	ıral areas			
	degree of impact on				N/A				

Social Impacts - Alternative 3

				Constructio	n Phase				
Potential Impact	Mitigation	Extent (E)	Duration (D)	Magnitude (M)	Probability (P)		gnificance (E+D+M)*P)	Status (+ve or -ve)	Confidence
	Nature of impact:		As this r	oute runs through	farms good relations	ships between o	contactors and farm wo	orkers are possil	ole
Conduct of construction	with	2	1	2	2	10	Low	-	Medium to high
workforce; Good	without	2	1	6	4	36	Medium	-	Medium to high
relationships between / farm workers and Eskom Construction workers can result in issues such as sexual misconduct and the spread of sexually transmitted diseases	degree to which impact can be reversed:	permission fro • An Environn	om the site offic nental Control C	er/ Environmental	Control Officer (ECO be appointed to ensu))	nnel are to enter the sit		
	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:				differences in belie	fs and cultural		These can result	
	with	2	1	2	2	10	Low	-	Medium to high
	without	2	1	6	4	36	Medium	-	Medium to high
Conduct of construction workforce; Bad relationships between farm workers and Eskom Construction workers leading to violence	degree to which impact can be reversed:	permission from An Environm way. A fining to Liasing with can be avoide	om the site offici nental Control C system for non-o the local police d	er/ Environmental fficer (ECO) must l compliance must b and having securit	Control Officer (ECO be appointed to ensu- e set in place; ry personnel on the s	o) ure contractors ite will ensure t	onel are to enter the sit conduct themselves in that any possible erupt • As far as possil een the locals and com	an appropriate ion of violence ble, locals	
	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:	Material car	be stolen from	construction sites		he route especi that are in ope	ally as material used in ration	powerlines is o	ften stolen even alon
	with	1	1	0	1	2	Low	-	Medium
	without	2	1	8	4	44	Medium	-	Medium
Theft of material from camps and along construction sites	degree to which impact can be reversed:	security person fence shall be shadecloth ca practicable. So In addition to	innel. The fence inspected on a n be attached to torage facilities to the above, all	shall be construct daily basis and any o the fence and sin shall be lockable.	ed of high quality may damages should be nilar to the fence, sha es entering or leaving	aterial bearing t fixed as soon a all be inspected	lled through a lockable he SABS mark. Further s it is practicable. To in daily and fixed as soor on camp shall be subjec	more, the crease security, as it is	
	degree of impact on irreplaceable resources:								
	Nature of impact:	It is possible	that land owner	s eg lodge owners,	game farmers owne	ers for whom vis project	sual impacts are import	tant to their live	lihoods will oppose t
	with	2	1	2	2	10	Low	-	Medium
legative attitudes towards the project and the formation of community (roups, NGO's, in response to the project;	without degree to which impact can be reversed:	can contact sh		queries or comme	3 with the affected part ents about the projec		e contact details of pers	sons that they	Medium
	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:						are opposed to the pro	ject	
			. 1	2		8	Low		I
	with	1	1		2			-	Medium
Land owners denying contractors access to their properties	with without degree to which impact can be reversed:	1 • There must	2 be communicat	6 on with landowne	4 ers in regards to proc	36 edures for ente	Medium	-	Medium Medium
contractors access to their	without degree to which impact	1 • There must	2 be communicat	6 on with landowne	4 ers in regards to proc	36 edures for ente	Medium ring onto farms	-	
contractors access to their	without degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact:	There must Eskom mus	2 be communicat t ensure that lar	6 on with landowne id owners are info	4 rs in regards to proc rmed of the construct N/A the clearing of the p	36 edures for ente	Medium ring onto farms rell as dates for mainte	nance	Medium
contractors access to their	without degree to which impact can be reversed: degree of impact on irreplaceable resources:	1 • There must	2 be communicat t ensure that lar	6 on with landowne Id owners are info	4 rs in regards to proc rmed of the construc N/A	36 edures for ente ction dates as w	Medium ring onto farms vell as dates for mainte	nance	Medium

Loss of crops leading to economic losses degree to which impact can be reversed: **Ensure that construction takes place when the land is fallow and with no crops **Where possible, powerline towers should be located along the boundary of the farm to lessen the loss of crops **Where power lines can't be places along property boundaries, ensure that construction takes place when the lar fallow and with no crops **Where power lines can't be places along property boundaries, ensure that construction takes place when the lar fallow and with no crops **Where possible, powerline along to liscuss with land owners that the loss of land will only be during the construction phase as some activities such a farming can still occur below the powerline after construction has ended **N/A* **Nature of impact:** With	uch as crop ruction of access roads - Medium to - Medium to	to high
Irreplaceable resources: Nature of impact: Grazing land area can be lost due to clearing of land for the corridor as well as during the construction with 1 1 2 2 8 Low	- Medium to - Medium to	to high
with 1 1 1 2 2 8 8 Low without 1 3 6 4 4 40 Medium Loss of land leading to economic losses degree to which impact degree to which impact as some activities such as crop farming can still occur below the powerline after construction has ended; in additional control of the farming can still occur below the powerline after construction has ended; in additional control of the farming can still occur below the powerline after construction has ended; in additional control of the farming can still occur below the powerline after construction has ended; in additional control of the farming can still occur below the powerline after construction has ended; in additional control of the farming can still occur below the powerline after construction has ended; in additional control of the farming can still occur below the powerline after construction has ended; in additional control of the farming can still occur below the powerline after construction has ended in the farming can still occur below the powerline after construction has ended; in additional control of the farming can still occur below the powerline after construction has ended; in additional control of the farming can still occur below the powerline after construction has ended; in additional control of the farming can still occur below the powerline after construction has ended after the farming can still occur below the powerline after construction has ended after the farming can still occur below the powerline after construction has ended after the farming can still occur below the powerline after construction has ended after the farming can still occur below the powerline after construction has ended after the farming can still occur below the powerline after construction has ended after the farming can still occur below the powerline after construction has ended after the farming can still occur below the powerline after construction has ended after the farming can still occur below the powerline after construction has ended after the farming can still o	- Medium to - Medium to	to high
with 1 1 2 2 8 Low without 1 3 6 4 40 Medium **Where possible, powerline towers should be located along the boundary of the farm to lessen the loss of land leading to object to some land may be temporary and will only be during the construction passome activities such as crop farming can still occur below the powerline after construction has ended; in additional part of the farming can still occur below the powerline after construction has ended; in additional part of the farming can still occur below the powerline after construction has ended; in additional part of the farming can still occur below the powerline after construction has ended; in additional part of the farming can still occur below the powerline after construction has ended; in additional part of the farming can still occur below the powerline after construction has ended; in additional part of the farming can still occur below the powerline after construction has ended; in additional part of the farming can still occur below the powerline after construction has ended; in additional part of the farming can still occur below the powerline after construction has ended; in additional part of the farming can still occur below the powerline after construction has ended; in additional part of the farming can still occur below the powerline after construction has ended after the farming can still occur below the powerline after construction has ended after the farming can still occur below the powerline after construction has ended after the farming can still occur below the powerline after construction has ended after the farming can still occur below the powerline after construction has ended after the farming can still occur below the powerline after construction has ended after the farming can still occur below the powerline after construction has ended after the farming can still occur below the powerline after construction has ended after the farming can still occur below the powerline after the farming can still occur below the powerline after	- Medium to - Medium to	to high
Where possible, powerline towers should be located along the boundary of the farm to lessen the loss of land Discuss with land owners that the loss of some land may be temporary and will only be during the construction passome activities such as crop farming can still occur below the powerline after construction has ended; in addition	nd ion phase	to high
Loss of land leading to degree to which impact degree to which impact as some activities such as crop farming can still occur below the powerline after construction has ended; in additional some activities such as crop farming can still occur below the powerline after construction has ended; in additional some activities such as crop farming can still occur below the powerline after construction has ended; in additional some activities such as crop farming can still occur below the powerline after construction has ended; in additional some activities such as crop farming can still occur below the powerline after construction has ended; in additional some activities such as crop farming can still occur below the powerline after construction has ended; in additional some activities such as crop farming can still occur below the powerline after construction has ended; in additional some activities such as crop farming can still occur below the powerline after construction has ended as construction for the construction farming can still occur below the powerline after construction has ended as construction for the construction farming can still occur below the powerline after construction for the construction farming can still occur below the powerline after construction for the construction fo	ion phase	
degree of impact on irreplaceable resources: • Where the loss of land is permanent, Eskom should discuss compensation with landowner		
Nature of impact: Construction can disturb activities on farms	l.	
with 1 1 2 2 8 Low without 1 1 8 3 30 Low	- Medium to	
Impacts on farming activities such as sowing, harvesting, and fire management programmes leading to economic losses	e of sowing,	
degree of impact on irreplaceable resources:		
Nature of impact: This can lead to conflicts with community members and farmers		
	- Medium to	to high
with out 1 1 2 1 4 Low without 1 1 6 3 24 Low	- Medium to	
Damage to farm infrastructure e.g. irrigation equipment, gates, fences with 1 1 2 1 2 3 24 Low • Where possible towers should be placed on the edges of farm boundaries and along any existing roads as infrast is likely to be minimum or absent with the exception of farm fences and gates which if damaged by contactors sho fixed. • Where possible, farm infrastructure can be moved for the duration of construction; where this is not possible, the powerline route can be altered to avoid the damage to the infrastructure	- Medium to frastructure s should be	
Damage to farm infrastructure e.g. irrigation equipment, with 1 1 2 1 4 Low 1 1 6 3 24 Low • Where possible towers should be placed on the edges of farm boundaries and along any existing roads as infrast is likely to be minimum or absent with the exception of farm fences and gates which if damaged by contactors sho fixed. • Where possible, farm infrastructure can be moved for the duration of construction; where this is not possible, the state of the duration of construction; where this is not possible, the state of the duration of construction; where this is not possible, the state of the duration of construction; where the duration of construction is likely to be minimum or absent with the exception of the duration of construction; where this is not possible, the state of the duration of construction is likely to the minimum or absent with the exception of the duration of construction; where this is not possible, the state of the duration of the duration of construction is likely to the minimum or absent with the exception of the duration of the dur	- Medium to frastructure s should be	
with 1 1 2 1 4 Low Damage to farm infrastructure e.g. irrigation equipment, gates, fences with a degree of impact on irreplaceable resources: Where possible towers should be placed on the edges of farm boundaries and along any existing roads as infrast is likely to be minimum or absent with the exception of farm fences and gates which if damaged by contactors should be placed on the edges of farm boundaries and along any existing roads as infrast is likely to be minimum or absent with the exception of farm fences and gates which if damaged by contactors should be placed on the edges of farm boundaries and along any existing roads as infrast is likely to be minimum or absent with the exception of farm fences and gates which if damaged by contactors should be placed on the edges of farm boundaries and along any existing roads as infrast is likely to be minimum or absent with the exception of farm fences and gates which if damaged by contactors should be placed on the edges of farm boundaries and along any existing roads as infrast is likely to be minimum or absent with the exception of farm fences and gates which if damaged by contactors should be placed on the edges of farm boundaries and along any existing roads as infrast is likely to be minimum or absent with the exception of farm fences and gates which if damaged by contactors should be placed on the edges of farm boundaries and along any existing roads as infrast is likely to be minimum or absent with the exception of farm fences and gates which if damaged by contactors should be placed on the edges of farm boundaries and along any existing roads as infrast is likely to be minimum or absent with the exception of farm fences and gates which if damaged by contactors should be placed on the edges of farm boundaries and along any existing roads as infrast is likely to be minimum or absent with the exception of farm fences and gates which if damaged by contactors should be placed on the edges of farm boundaries and along any existing roads as infrast.	- Medium to frastructure s should be ble, the	to high
Damage to farm infrastructure e.g. irrigation equipment, gates, fences with 1 1 2 1 2 3 24 Low • Where possible towers should be placed on the edges of farm boundaries and along any existing roads as infrast is likely to be minimum or absent with the exception of farm fences and gates which if damaged by contactors sho fixed. • Where possible, farm infrastructure can be moved for the duration of construction; where this is not possible, the powerline route can be altered to avoid the damage to the infrastructure degree of impact on irreplaceable resources:	- Medium to frastructure s should be olle, the	to high
Damage to farm infrastructure e.g. irrigation equipment, gates, fences With 1 1 2 1 4 Low • Where possible towers should be placed on the edges of farm boundaries and along any existing roads as infrast is likely to be minimum or absent with the exception of farm fences and gates which if damaged by contactors sho fixed. • Where possible towers should be placed on the edges of farm boundaries and along any existing roads as infrast is likely to be minimum or absent with the exception of farm fences and gates which if damaged by contactors sho fixed. • Where possible, farm infrastructure can be moved for the duration of construction; where this is not possible, the powerline route can be altered to avoid the damage to the infrastructure N/A Nature of impact: It is highly likely that theft of game and stock can occur. Theft of game can be higher on farms where with the exception of farm fences and gates which if damaged by contactors sho fixed. N/A Nature of impact: It is highly likely that theft of game and stock can occur. Theft of game can be higher on farms where with the exception of farm fences and gates which if damaged by contactors sho fixed. N/A Nature of impact: It is highly likely that theft of game and stock can occur. Theft of game can be higher on farms where with the exception of farm fences and gates which if damaged by contactors sho fixed. N/A Nature of impact: It is highly likely that theft of game and stock can occur. Theft of game can be higher on farms where with the exception of farm fences and gates which if damaged by contactors sho fixed.	- Medium to frastructure s should be ble, the ble, the - Medium to - Medium to - Medium to - Medium to bn of	to high
Damage to farm infrastructure e.g. irrigation equipment, gates, fences Where possible to be minimum or absent with the exception of farm fences and gates which if damaged by contactors sho fixed. Where possible, farm infrastructure can be moved for the duration of construction; where this is not possible, the powerline route can be altered to avoid the damage to the infrastructure Nature of impact: It is highly likely that theft of game and stock can occur. Theft of game can be higher on farms where without 1 1 1 1 1 1 1 1 1	- Medium to frastructure s should be ble, the ble, the - Medium to - Medium to - Medium to - Medium to bn of	to high
Damage to farm infrastructure e.g. irrigation equipment, gates, fences Were possible to be minimum or absent with the exception of farm fences and gates which if damaged by contactors sho fixed.	- Medium to frastructure s should be ble, the where Rhino is present - Medium to - Medium to on of l prior to	to high to high to high
with 1 1 1 2 1 4 Low without 1 1 1 6 3 3 24 Low • Where possible towers should be placed on the edges of farm boundaries and along any existing roads as infrast is likely to be minimum or absent with the exception of farm fences and gates which if damaged by contactors sho fixed. • Where possible, farm infrastructure can be moved for the duration of construction; where this is not possible, the powerline route can be altered to avoid the damage to the infrastructure NA Nature of impact: It is highly likely that theft of game and stock can occur. Theft of game can be higher on farms where with 1 1 2 4 4 16 Low Without 1 1 1 0 4 4 48 Medium	- Medium to frastructure s should be ble, the ble, the - Medium to - Medium to - Medium to bn of l prior to bn dependent to - Medium to -	to high to high to high to high to high
with 1 1 1 2 1 1 0 0 4 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- Medium to frastructure s should be ole, the vhere Rhino is present - Medium to on of l prior to	to high to high to high to high to high
with 1 1 1 2 1 4 Low without 1 1 1 6 3 3 24 Low • Where possible towers should be placed on the edges of farm boundaries and along any existing roads as infrast is likely to be minimum or absent with the exception of farm fences and gates which if damaged by contactors sho fixed. • Where possible, farm infrastructure can be moved for the duration of construction; where this is not possible, the powerline route can be altered to avoid the damage to the infrastructure Note the possible of the duration of the duration of construction; where this is not possible, the powerline route can be altered to avoid the damage to the infrastructure Note the possible of the duration of the duration of construction; where this is not possible, the powerline route can be altered to avoid the damage to the infrastructure Note the degree of impact:	- Medium to frastructure s should be ole, the ole, the ole, the ole, the ole ole, the ole ole, the ole ole, the ole ole ole ole ole ole ole ole ole ol	to high to high to high to high to high

	Nature of impact:		Construction	sites are highly ha	rzadous environmen	ts and the safet	y of people and animal	Is can be compr	omised
	with	1	1	2	1	4	Low	-	Medium
	without	1	1	6	2	16	Low	-	Medium
Safety of community members/farm workers/animals	degree to which impact can be reversed:	place near the • Liase with co possible dang	e construction s ommunity leade ers of moving c	ites ers/farm owners to lose to the constru	ensure that they wa	rn community	anguages, placed in a commembers/farm employ	ees of the	
	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:						aintenece of the powe	rline is not poss	
	with without	1	4	8	2 4	8 52	Low Medium	-	Medium to high Medium to high
Poor maintenance of the power line access roads: conflict between Eskom	degree to which impact can be reversed:				the operational phas	•	Wedulii	-	iviedidii to nigri
and the landowners on whose responsibility it is to do maintenance on these roads. Farmers use it more often but yet expect Eskom to pay for all maintenance					N/A				
	Nature of impact:	The pres	ence of powerli	nes particularly in	tourist attractions ca	n result in touri	sts no longer visiting th	ne area as their	views will be spoilt
Loss of a sense of place/income on game	with	1	1	2	2	8	Low	-	Medium to high
farms – Tourists want to	without	1	1	8	4	40	Medium	-	Medium to high
see "Africa"and the power line can disturb the rustic African setting;	degree to which impact can be reversed:	Choose thos	se corridors that	t will have the leas	ng season is avoided; t impact on the gami r close to game farm	ng industry;			
	degree of impact on irreplaceable resources:								
	.,								
				Operationa	l Phase				
Potential Impact	Mitigation	Extent (E)	Duration (D)	Operationa Magnitude (M)	Probability (P)		gnificance (E+D+M)*P)	Status (+ve or -ve)	Confidence
Potential Impact			(D)	Magnitude (M)	Probability (P)	(S=	-	(+ve or -ve)	
Potential Impact	Mitigation		(D)	Magnitude (M)	Probability (P)	(S=	(E+D+M)*P)	(+ve or -ve)	
Potential Impact	Mitigation Nature of impact:	(E)	(D)	Magnitude (M) if these do occur,	Probability (P) but there is a percep	(S=	(E+D+M)*P) re harmful to the healt	(+ve or -ve)	d animals
Potential Impact Perceived electromagnetic fields impacts on humans and animals during the operational phase	Mitigation Nature of impact: with	1 1 • Inform comi • Ensure that communities	(D) It is not certain 3 5 munities and land there are no decare not paces at	Magnitude (M) if these do occur, 2 4 adowners about t'evelopments below trisk.	Probability (P) but there is a percep 1 2 ne perceived impacts of the powerline so the	(S= tion that they a 6 20 of powerlines at although adv	(E+D+M)*P) re harmful to the healt Low	(+ve or -ve) th of humans ar	d animals Medium
Perceived electromagnetic fields impacts on humans and animals during the	Mitigation Nature of impact: with without degree to which impact	1 1 1 • Inform come • Ensure that communities • • On farms en	(D) It is not certain 3 5 munities and lai there are no di are not paces a' ssure that no bu	Magnitude (M) if these do occur, 2 4 ndowners about tievelopments below trisk. ilidings either for h	Probability (P) but there is a percep 1 2 ne perceived impacts v the powerline so th uman or animal habi	(S= tion that they a 6 20 of powerlines at although adv	(E+D+M)*P) re harmful to the healt Low Low rerse impacts are uncered below powerlines	(+ve or -ve) th of humans ar rtain,	d animals Medium Medium
Perceived electromagnetic fields impacts on humans and animals during the	Mitigation Nature of impact: with without degree to which impact can be reversed: degree of impact on	1 1 1 • Inform come • Ensure that communities • • On farms en	(D) It is not certain 3 5 munities and lai there are no di are not paces a' ssure that no bu	Magnitude (M) if these do occur, 2 4 ndowners about tievelopments below trisk. ilidings either for h	Probability (P) but there is a percep 1 2 ne perceived impacts v the powerline so th uman or animal habi	(S= tion that they a 6 20 of powerlines at although adv	(E+D+M)*P) re harmful to the healt Low Low rerse impacts are uncer	(+ve or -ve) th of humans ar rtain,	d animals Medium Medium
Perceived electromagnetic fields impacts on humans and animals during the	Mitigation Nature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact: with	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(D) It is not certain 3 5 munities and lai there are no di are not paces a sure that no bu	Magnitude (M) if these do occur, 2 4 indowners about tievelopments below trisk. iildings either for h	Probability (P) but there is a percep 1 2 ne perceived impacts v the powerline so th uman or animal habi N/A tourist attractions ca	(S= tion that they a 6 20 of powerlines at although adv tation are place	(E+D+M)*P) re harmful to the healt Low Low rerse impacts are uncered below powerlines sts no longer visiting th	(+ve or -ve) th of humans ar rtain,	d animals Medium Medium wiews will be spoilt Medium
Perceived electromagnetic fields impacts on humans and animals during the operational phase	Mitigation Nature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact:	1 1 1 • Inform com • Ensure that communities: • On farms en	(D) It is not certain 3 5 munities and lat there are not are not paces at source that no but	Magnitude (M) if these do occur, 2 4 4 andowners about the evelopments below the risk. illdings either for hand the particularly in	Probability (P) but there is a percep 1 2 ne perceived impacts v the powerline so th uman or animal habi	(S= tion that they a 6 20 of powerlines at although adv	(E+D+M)*P) re harmful to the healt Low Low rerse impacts are uncered below powerlines sts no longer visiting the	(+ve or -ve) th of humans ar rtain,	d animals Medium Medium views will be spoilt
Perceived electromagnetic fields impacts on humans and animals during the operational phase Loss of a sense of place/income on game farms — Tourists want to see "Africa" and the power line can disturb the rustic	Mitigation Nature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact: with	Inform com	It is not certain 3 5 munities and la there are no de are not paces at source that no but ence of powerli 1 4 nance so that h	Magnitude (M) if these do occur, 2 4 andowners about the evelopments below the risk. illdings either for home particularly in 2 8 anuting season is a	Probability (P) but there is a percep 1 2 ne perceived impacts v the powerline so th uman or animal habi N/A tourist attractions ca	(S= tion that they a 6 20 of powerlines at although adv tation are place	(E+D+M)*P) re harmful to the healt Low Low rerse impacts are uncered below powerlines sts no longer visiting th	(+ve or -ve) th of humans ar rtain,	d animals Medium Medium wiews will be spoilt Medium
Perceived electromagnetic fields impacts on humans and animals during the operational phase Loss of a sense of place/income on game farms — Tourists want to see "Africa" and the power	Mitigation Nature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact: with without degree to which impact	Inform com	It is not certain 3 5 munities and la there are no de are not paces at source that no but ence of powerli 1 4 nance so that h	Magnitude (M) if these do occur, 2 4 andowners about the evelopments below the risk. illdings either for home particularly in 2 8 anuting season is a	Probability (P) but there is a percep 1 2 ne perceived impacts of the powerline so th uman or animal habi N/A tourist attractions ca 3 4 voided	(S= tion that they a 6 20 of powerlines at although adv tation are place	(E+D+M)*P) re harmful to the healt Low Low rerse impacts are uncered below powerlines sts no longer visiting th	(+ve or -ve) th of humans ar rtain,	d animals Medium Medium wiews will be spoilt Medium
Perceived electromagnetic fields impacts on humans and animals during the operational phase Loss of a sense of place/income on game farms — Tourists want to see "Africa" and the power line can disturb the rustic	Mitigation Nature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact: with without degree to which impact can be reversed:	Inform com	(D) It is not certain 3 5 munities and laithere are no drare not paces are sure that no but the control of the	Magnitude (M) if these do occur, 2 4 4 ndowners about the evelopments below the risk. which is a second of the evelopments below the risk. In the properties of the evelopments below the risk. In the properties of the evelopments below the risk. In the properties of the evelopments below the risk. In the properties of the evelopment of the evelop	Probability (P) but there is a percep 1 2 ne perceived impacts of the powerline so the uman or animal habit N/A tourist attractions ca 3 4 voided t impact on the gami	(S= tion that they a 6 20 of powerlines at although adv tation are place n result in touri 12 60 ng industry	(E+D+M)*P) re harmful to the healt Low Low rerse impacts are uncered below powerlines sts no longer visiting th	the or -ve) the of humans are rtain,	d animals Medium Medium views will be spoilt Medium High
Perceived electromagnetic fields impacts on humans and animals during the operational phase Loss of a sense of place/income on game farms — Tourists want to see "Africa" and the power line can disturb the rustic	Mitigation Nature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact on irreplaceable resources:	The pres 1 3 • Inform communities: • On farms en The pres 1 3 • Plan mainte • Choose thos	(D) It is not certain 3 5 munities and laithere are not divide and paces are not paces are some form the control of the contr	Magnitude (M) if these do occur, 2 4 4 downers about the evelopments below the risk. illdings either for have a server of the evelopments below the evelopments about the evelopments about the evelopment of the	Probability (P) but there is a percep 1 2 ne perceived impacts of the powerline so the uman or animal habit N/A tourist attractions ca 3 4 voided t impact on the gamin N/A tes can be of such point 2	(S= tion that they a 6 20 of powerlines at although adv tation are place n result in touri 12 60 ng industry	(E+D+M)*P) re harmful to the healt Low Low rerse impacts are uncered below powerlines sts no longer visiting the Low Medium maintenece of the powerlines	the or -ve) the of humans are rtain, are area as their rtline is not poss	views will be spoilt Medium Wedium Views will be spoilt Medium High Medium High
Perceived electromagnetic fields impacts on humans and animals during the operational phase Loss of a sense of place/income on game farms — Tourists want to see "Africa" and the power line can disturb the rustic African setting; Poor maintenance of the power line access roads:	Mitigation Nature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact: with without degree to which impact can be reversed:	Inform com	It is not certain 3 5 munities and late there are no de are not paces are not be usure that no but the control of the control	Magnitude (M) if these do occur, 2 4 4 downers about the evelopments below the risk. illdings either for home particularly in 2 8 a sunting season is a the will have the leas	Probability (P) but there is a percep 1 2 ne perceived impacts of the powerline so th uman or animal habi N/A tourist attractions ca 3 4 voided t impact on the gami	(S= tion that they a 6 20 of powerlines at although adv tation are place n result in touri 12 60 ng industry	re harmful to the healt Low Low Low rerse impacts are uncered below powerlines sts no longer visiting th Low Medium	(+ve or -ve) th of humans ar rtain, ne area as their vrlline is not poss	d animals Medium Medium Medium views will be spoilt Medium High
Perceived electromagnetic fields impacts on humans and animals during the operational phase Loss of a sense of place/income on game farms — Tourists want to see "Africa" and the power line can disturb the rustic African setting; Poor maintenance of the power line access roads: conflict between Eskom	Mitigation Nature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact on irreplaceable resources: Nature of impact on irreplaceable resources:	The pres 1 3 • Inform communities: • On farms en The pres 1 3 • Plan mainte • Choose thos	(D) It is not certain 3 5 munities and laithere are not divide and paces are not paces are some form the control of the contr	Magnitude (M) if these do occur, 2 4 4 downers about the evelopments below the risk. illdings either for have a server of the evelopments below the evelopments about the evelopments about the evelopment of the	Probability (P) but there is a percep 1 2 ne perceived impacts of the powerline so the uman or animal habit N/A tourist attractions ca 3 4 voided t impact on the gamin N/A tes can be of such point 2	(S= tion that they a 6 20 of powerlines at although adv tation are place n result in touri 12 60 ng industry	(E+D+M)*P) re harmful to the healt Low Low rerse impacts are uncered below powerlines sts no longer visiting the Low Medium maintenece of the powerlines	the or -ve) the of humans are rtain, are area as their rtline is not poss	views will be spoilt Medium Wedium Views will be spoilt Medium High Medium High
Perceived electromagnetic fields impacts on humans and animals during the operational phase Loss of a sense of place/income on game farms — Tourists want to see "Africa" and the power line can disturb the rustic African setting; Poor maintenance of the power line access roads:	Mitigation Nature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact can be reversed: degree of impact con irreplaceable resources: with without degree to which impact can be reversed:	The pres 1 3 • Inform com • Ensure that communities • On farms en The pres 1 3 • Plan mainte • Choose thos	tis not certain 3 5 munities and lait there are not divide are not paces are sure that no but the control of t	Magnitude (M) if these do occur, 2 4 Indowners about the evelopments below the risk. Wildings either for home particularly in 2 8 Bounting season is a season with the eleast the ele	Probability (P) but there is a percep 1 2 ne perceived impacts v the powerline so th uman or animal habi N/A tourist attractions ca 3 4 voided t impact on the gami N/A tes can be of such po	(S= tion that they a 6 20 of powerlines at although adv tation are place n result in touri 12 60 ng industry poor state that m 8 52	re harmful to the healt Low Low rerse impacts are uncered below powerlines sts no longer visiting th Low Medium Medium	the or -ve) the of humans are rtain, are area as their rrline is not poss	views will be spoilt Medium Wedium Views will be spoilt Medium High Wedium to high Medium to high
Perceived electromagnetic fields impacts on humans and animals during the operational phase Loss of a sense of place/income on game farms – Tourists want to see "Africa" and the power line can disturb the rustic African setting; Poor maintenance of the power line access roads: conflict between Eskom and the landowners on whose responsibility it is to do maintenance on these roads. Farmers use it more often but yet expect Eskom	Mitigation Nature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact with without degree to which impact can be reversed: degree of impact on irreplaceable resources: with without degree to which impact can be reversed:	The pres 1 3 • Inform com • Ensure that communities • On farms en The pres 1 3 • Plan mainte • Choose thos	tis not certain 3 5 5 munities and lait there are no do are not paces are source that no but the source of powerling the sour	Magnitude (M) if these do occur, 2 4 Indowners about the evelopments below the risk. indidings either for his even in the	Probability (P) but there is a percep 1 2 ne perceived impacts of the powerline so the uman or animal habit N/A tourist attractions cat 3 4 voided t impact on the gamit N/A tes can be of such properties of the powerline so the properties of the properties o	(S= tion that they a 6 20 of powerlines at although adv tation are place n result in touri 12 60 ng industry cor state that m 8 52	re harmful to the healt Low Low verse impacts are uncered below powerlines sts no longer visiting the Low Medium Medium Low Medium	ty outages may	d animals Medium Medium Medium views will be spoilt Medium High ible Medium to high Medium to high
Perceived electromagnetic fields impacts on humans and animals during the operational phase Loss of a sense of place/income on game farms – Tourists want to see "Africa" and the power line can disturb the rustic African setting; Poor maintenance of the power line access roads: conflict between Eskom and the landowners on whose responsibility it is to do maintenance on these roads. Farmers use it more often but yet expect Eskom	Mitigation Nature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact can be reversed: degree of impact con irreplaceable resources: with without degree to which impact can be reversed:	The pres 1 3 • Inform com • Ensure that communities • On farms en The pres 1 3 • Plan mainte • Choose thos	tis not certain 3 5 munities and lait there are no divide are not paces are sure that no but the sure that no but	Magnitude (M) if these do occur, 2 4 Indowners about the evelopments below the risk. Wildings either for home particularly in 2 8 Bounting season is a season with the eleast the ele	Probability (P) but there is a percep 1 2 ne perceived impacts v the powerline so th uman or animal habi N/A tourist attractions ca 3 4 voided t impact on the gami N/A tes can be of such po	(S= tion that they a 6 20 of powerlines at although adv tation are place n result in touri 12 60 ng industry poor state that m 8 52	re harmful to the healt Low Low rerse impacts are uncered below powerlines sts no longer visiting th Low Medium Medium	the or -ve) the of humans are rtain, are area as their	views will be spoilt Medium Wedium Views will be spoilt Medium High Wedium to high Medium to high

Impact of the power lines on aircraft as there are airports within the study area; one is the Louis Trichardt airport and the other is for light aircraft on the road towards Waterpoort from Louis	degree to which impact can be reversed:	issue; • Consult legi • Ensure that	slative restri	ictions a	and possible pe arly visible to ai	rmit application.		vide information on ser rt organisations	riousness of this		
Trichardt	degree of impact on irreplaceable resources:					N/A					
Decrease in property	Nature of impact:	1	3		4	These can le	ead to economic			Madium to bigh	
values and number of	without	2	5		6	3	39	Low Medium	-	Medium to high Medium to high	
visitirs to lodges and other areas that are popular with	degree to which impact can be reversed:	Vegetation	can be use	d to scr	een the powerl	ines and other meas	sures can be dis	cussed with Visual Imp	act Specialist		
tourists due to the visual impacts of powerlines	degree of impact on irreplaceable resources:					N/A					
	Nature of impact:	The mer	re presence	of contr	ruction workers	in communities and	d especially on f	arms can lead to unea	se and people m	ay feel threatened Medium to high	
	without	1	1		4	4	24	Low	-	High	
Security issues as a result of the presence of maintenance workers on properties	degree to which impact can be reversed:	with pl maintenand liase with lan them about	te that construction workers are easily identidy identified by construction clothes with logos and identification cards with photographs. The landowner should be allowed to check the identification cards and note the names of intenance workers present on site. Even with mitigation however, farmers may still feel unsafe on their properties; with landowners to advice them on the dates of construction of the powerline on his propoerty as well as informing in about the number of personell expected, the landownwer can also be provided with contact details of Eskom to report any unacceptable behaviour on his site as well as the presence of what seem to be unathorised persons. The impact can be high where endangered species such as Rhino occur								
	degree of impact on irreplaceable resources: Nature of impact:		The impact can be high where endangered species such as Rhino occur This can result in maintenance not occuring								
	with without	1	1		2	2	8	Low	-	Medium	
Land owners denying contractors access to their properties	degree to which impact can be reversed:	Eskom must the procedur necessary	1 1 8 4 40 Medium - H skom must liase with farmers in regards to procedures for entering onto farms. Both Eskom and farmers must agree on he procedures.eg it can be agreed that, farmers must not to change locks to gates without informing Eskom, and where necessary, providing them with spare keys for easy access to their properties during maitenance. Despite this, the Landowner nust still be informed of when maintanence will take place on the route on his property								
	degree of impact on irreplaceable resources:					N/A					
	Nature of impact:	1	1		0	This is	a high probabili 2	Low		Medium to high	
	without	1	1		2	2	8	Low	-	Medium to high	
Poaching of game as well as stock theft and theft of crops	degree to which impact can be reversed:						and may not ha	elihood for activities su ave the time to plan a t			
	degree of impact on irreplaceable resources: Nature of impact:			Di	uring the oneral	N/A	s on farm activit	ies are likely to be ver	v minimal		
	with	1	1		0	1	2	Low	-	Medium to high	
Impact on farming activities such as sowing, harvesting, and fire management programmes leading to economic losses	degree to which impact can be reversed:		r a significar	ntly sho	rter duration, b	ut must at all costs	be avoided. This	uction, the impacts on can be through measing activity on farms.		Medium to high	
	degree of impact on irreplaceable resources:	N/A									
Impact on farming	Nature of impact:	During t	the operatio	nal pha	se, impacts on	actvities and on gue	ests to lodges ar	nd other tourist destnia	ations are likely t	o be very minimal	
activities such as hunting in game farms leading to	with without	1	1 1 0 1 2 Low - Medium 1 1 2 1 4 Low - Medium								
economic losses. Impacts can also be on guests in lodges leading to economic	degree to which impact can be reversed:	_									
losses	degree of impact on irreplaceable resources:			A = '-		N/A					
	Natura of im				ancad valeas	vill oncure that a still	itios that	ant able to take also	uill bo peesible		
	Nature of impact: with			AITIIICI	eased voltage v	vill ensure that activ	ities that were	not able to take place v	will be possible		
Increase in the voltage stability		3	5	AITIIICI	eased voltage v	vill ensure that activ 5 N/A	ities that were	not able to take place v	+	Medium	

	Nature of impact:	Rel	iable electricity	supply is a positive	e impact that will im	nrove activities	such as touriam in the	Makhado Local	Municipality	
	with	3	4	2	4	36	Medium	+	Medium	
	without	2	1	6	4	36	Medium	+	Medium	
An assurance of a reliable electricity supply	degree to which impact can be reversed:				N/A					
	degree of impact on irreplaceable resources:				N/A					
Increase of electricity	Nature of impact:			In order to grow	the economy of the	Makhado Loca	Municipality, electrici	ty is vital	1	
supply making it available for agriculture, tourism	with without	3	5	8	5	80	High	+	Medium	
and other industries. The	degree to which impact	3		8		80	riigii	<u> </u>	Wedium	
increase in electricity can	can be reversed:				N/A					
also allow for the undertaking of other activities that may have	degree of impact on irreplaceable resources:				N/A					
	Nature of impact:	The absence	e of backlogs in	electricy connecti	ons can imply that a	ctivities that ca	n only take place wher	e electicity is pr	esent will be possible	
	with without	3	5	8	5	80	High	+	Medium	
No more backlogs in	degree to which impact	3		8		80	riigii	<u> </u>	Wedium	
electricity Connections	can be reversed:				N/A					
	degree of impact on irreplaceable resources:				N/A					
	Nature of impact:		1							
The inadequate provision	with without	3	5	8	5	80	High	+	Medium	
of electricity to services	degree to which impact	3		8		80	riigii	<u> </u>	Wedium	
such as health facilities will					N/A					
cease	degree of impact on irreplaceable resources:				N/A					
	Nature of impact:		Th	e presence of elec	tricity to rural areas	will improve th	e lives of many who liv	e in poverty		
et	with									
Electricity will be available	without degree to which impact	3	5	8	5	80	High	+	Medium	
to numerous rural settlements that do not	can be reversed:				N/A					
have this service	degree of impact on irreplaceable resources:		N/A							
			D	ecommissior	ing Phase					
		Extent	Duration	Magnitude	Probability	, s	ignificance	Status		
Potential Impact	Mitigation	(E)	(D)	(M)	(P)		:(E+D+M)*P)	(+ve or -ve)	Confidence	
	Notes of the section								taranta diberanta tarah	
	Nature of impact:	Material ca	n be stolen fror	n the sites where o	lecommissioning is t	aking place as i	material used in electric	city is often the	targeted by criminals	
	with	1	1	0	1	2	Low	-	Medium	
	without	2	1	8	4	44	Medium	-	Medium	
		_					olled through a lockable	-		
Theft of material from camps and along construction sites	degree to which impact can be reversed:	security perso fence shall be shadecloth car practicable. St In addition to	nnel. The fence inspected on a n be attached to orage facilities o the above, all	shall be construct daily basis and any o the fence and sin shall be lockable.	ed of high quality may damages should be nilar to the fence, should as entering or leaving	aterial bearing t fixed as soon a all be inspected	olled through a lockable the SABS mark. Further is it is practicable. To in I daily and fixed as sooi on camp shall be subje	more, the accurity, n as it is		
camps and along	degree of impact on irreplaceable resources:	security perso fence shall be shadecloth car practicable. St In addition to	nnel. The fence inspected on a n be attached to orage facilities o the above, all ensure that the	shall be construct daily basis and any o the fence and shall shall be lockable. persons or vehicle ere is security pers	ed of high quality ma damages should be nilar to the fence, sh as entering or leaving onnel N/A	aterial bearing i fixed as soon a all be inspected the constructi	the SABS mark. Further is it is practicable. To in I daily and fixed as sooi on camp shall be subje	more, the crease security, n as it is cted to a search		
camps and along	can be reversed: degree of impact on irreplaceable resources: Nature of impact:	security perso fence shall be shadecloth can practicable. St • In addition t • At each site,	nnel. The fence inspected on a n be attached tr orage facilities on the above, all ensure that the	shall be construct daily basis and any o the fence and sin shall be lockable. persons or vehicle ere is security pers	ed of high quality mardamages should be billar to the fence, should be sentering or leaving onnel N/A hase as the activities	aterial bearing of fixed as soon a all be inspected the construction of the cons	the SABS mark. Further is it is practicable. To in it daily and fixed as soon on camp shall be subje	more, the crease security, n as it is cted to a search	phase	
camps and along	degree of impact on irreplaceable resources: Nature of impact: with	security perso fence shall be shadecloth cai practicable. St • In addition t • At each site,	nnel. The fence inspected on a n be attached to orage facilities of the above, all ensure that the crops can be	shall be construct daily basis and any o the fence and sin shall be lockable. persons or vehicle ere is security pers	ed of high quality mardamages should be nilar to the fence, shiss entering or leaving onnel N/A hase as the activities.	aterial bearing in fixed as soon a so	the SABS mark. Further is it is practicable. To in it daily and fixed as soon on camp shall be subject the subject that is a strong that it is a s	more, the crease security, n as it is cted to a search	phase Medium to high	
camps and along construction sites	degree of impact on irreplaceable resources: Nature of impact: with	security perso fence shall be shadecloth can practicable. St • In addition t • At each site,	nnel. The fence inspected on a n be attached to rorage facilities o the above, all ensure that the crops can be crops can be 1 3	shall be construct daily basis and any to the fence and sin shall be lockable. persons or vehicle ere is security pers lost during this pl 2 6	ed of high quality mardamages should be nilar to the fence, shots entering or leaving onnel N/A hase as the activities 2 4	aterial bearing in fixed as soon a all be inspected the construction of the cons	the SABS mark. Further is it is practicable. To in it daily and fixed as soon on camp shall be subjections as those during Low Medium	more, the crease security, n as it is cted to a search	phase	
camps and along	degree of impact on irreplaceable resources: Nature of impact: with	security perso fence shall be shadecloth can practicable. St • In addition t • At each site,	nnel. The fence inspected on a n be attached to rorage facilities o the above, all ensure that the crops can be crops can be 1 3	shall be construct daily basis and any to the fence and sin shall be lockable. persons or vehicle ere is security pers lost during this pl 2 6	ed of high quality mardamages should be nilar to the fence, shiss entering or leaving onnel N/A hase as the activities.	aterial bearing in fixed as soon a all be inspected the construction of the cons	the SABS mark. Further is it is practicable. To in it daily and fixed as soon on camp shall be subjections as those during Low Medium	more, the crease security, n as it is cted to a search	phase Medium to high	
camps and along construction sites	degree of impact on irreplaceable resources: Nature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources:	security perso fence shall be shadecloth can practicable. St • In addition t • At each site,	nnel. The fence inspected on a n be attached to rorage facilities o the above, all ensure that the crops can be crops can be 1 3	shall be construct daily basis and any to the fence and sin shall be lockable. persons or vehicle ere is security pers lost during this pl 2 6	ed of high quality marker damages should be nilar to the fence, should be sentering or leaving onnel N/A hase as the activities. 2 4 h the land is fallow a	aterial bearing in fixed as soon a all be inspected; the construction of the cons	the SABS mark. Further is it is practicable. To in it daily and fixed as soon on camp shall be subject the subject that is a strong that it is a s	more, the crease security, n as it is cted to a search	phase Medium to high	
camps and along construction sites Loss of crops leading to economic losses	degree of impact on irreplaceable resources: Nature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact:	security perso fence shall be shadecloth can practicable. St • In addition t • At each site,	nnel. The fence inspected on a no be attached to no a no be attached to rage facilities o the above, all ensure that the crops can be 1 3 decommssionin	shall be construct daily basis and any to the fence and sin shall be lockable. persons or vehicle ere is security pers e lost during this pl 2 6 g takes place when	ed of high quality mardamages should be nilar to the fence, shiss entering or leaving onnel N/A nase as the activities: 2 4 1 the land is fallow a N/A Decommssioning or leaving onnel	aterial bearing of fixed as soon a all be inspected the construction of the cons	the SABS mark. Further is it is practicable. To in it daily and fixed as soon on camp shall be subject the subject that is a strong that it is soon to make the subject that is a strong that it is soon farms.	more, the ccrease security, n as it is cted to a search the construction	phase Medium to high Medium to high	
camps and along construction sites Loss of crops leading to economic losses	degree of impact on irreplaceable resources: Nature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact: with	security perso fence shall be shadecloth can practicable. St • In addition t • At each site,	nnel. The fence inspected on a n be attached to rorage facilities o the above, all ensure that the crops can be crops can be 1 3	shall be construct daily basis and any or the fence and sin shall be lockable. persons or vehicle are is security persons or vehicle are in the persons of the persons of the persons of the persons of the persons or vehicle are in the persons of the persons of the persons or vehicle are in the persons of the persons or vehicle are in the persons of the pe	ed of high quality marker damages should be nilar to the fence, should be sentering or leaving onnel N/A hase as the activities. 2 4 h the land is fallow a	are almost as in 8 40 and with no cros	the SABS mark. Further is it is practicable. To in it daily and fixed as soon on camp shall be subject tense as those during Low Medium Medium Medium Medium Medium Medium Medium Medium	more, the crease security, n as it is cted to a search	phase Medium to high Medium to high	
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camps and along construction sites Loss of crops leading to economic losses Impacts on farming activities such as sowing, harvesting, and fire management programmes leading to economic losses Damage to farm infrastructure e.g. irrigation equipment,	degree of impact on irreplaceable resources: Nature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact on irreplaceable resources: with without degree of impact on irreplaceable resources: degree of impact: with without	security perso fence shall be shadecloth can practicable. St • In addition t • At each site, 1 1 1 • Ensure that • • 1 1 Decommssic sowing, cons	nnel. The fence inspected on a ne attached to rage facilities o the above, all ensure that the crops can be 1 3 3 decommssionin 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	shall be construct daily basis and any of the fence and sin shall be lockable. persons or vehicle are is security persons or vehicle are in the security persons or	ed of high quality marker and an ages should be nilar to the fence, should be nilar to the fence, should be nilar to the fence, should be sentering or leaving onnel N/A N/A Decommssioning control and should be not should be	are almost as in the construction of construct	the SABS mark. Furthers it is practicable. To in I daily and fixed as soon on camp shall be subject the same as those during the same as	the construction	phase Medium to high	
camps and along construction sites Loss of crops leading to economic losses Impacts on farming activities such as sowing, harvesting, and fire management programmes leading to economic losses Damage to farm infrastructure e.g. irrigation equipment,	degree of impact on irreplaceable resources: Nature of impact: with without degree to which impact can be reversed: Nature of impact: with without degree of impact on irreplaceable resources: Nature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact: with without degree to which impact can be reversed: degree of impact: with without	security perso fence shall be shadecloth can practicable. St • In addition t • At each site, 1 1 1 • Ensure that • • 1 Decommssic sowing, cons	nnel. The fence inspected on a ne attached to rage facilities o the above, all ensure that the crops can be 1 3 decommissionin 1 1 1 noing should no truction can occur.	shall be construct daily basis and any of the fence and sin shall be lockable. persons or vehicle are is security persons or vehicle are in the security persons or	ed of high quality may damages should be billar to the fence, she shillar to the fence, she is entering or leaving onnel N/A N/A Decommssioning or a leaving onnel N/A Decommssioning or a leaving or a leaving onnel N/A Decommssioning or a leaving or a leav	are almost as in the construction of construct	the SABS mark. Furthers it is practicable. To in It daily and fixed as soon on camp shall be subject the sast those during the sast	the construction	Medium to high	

Security concerns as a result of poaching of game, stock theft and crop theft	degree to which impact can be reversed:	 Where poss construction. 	ible, animals sho	ould be fitted with		placed in secure	enclosures for the du		
	degree of impact on irreplaceable resources:		The	impact can be hig	h where endangered	d species such as	Rhino occur		
	Nature of impact:	The mer	e presence of co	entruction workers	in communities and	l especially on fa	arms can lead to unea	ase and people m	nay feel threatened
Security as a result of the		1	1	2	2	8	Low	-	Medium to high
presence of workers on pfarms and communities	without degree to which impact	2	1	8	3	33	Medium	-	Medium to high
	can be reversed: degree of impact on irreplaceable resources:	Advice land	owners and com	munity members	about decommssion	ing dates			
	Nature of impact:		As decommis	sioning involves th	ne dismatling of stru	ctures, the safet	y of people and anima	als can be compr	omised
	with	1	1	2	1	4	Low	-	Medium
Safety of community members/farm workers/animals	without degree to which impact can be reversed:	place near the • Liase with co	e construction si ommunity leade	tes	ensure that they w		Low anguages, placed in a members/farm emplo		Medium
	degree of impact on irreplaceable resources:				N/A				
Potential Impact	Mitigation	Extent (E)	Duration (D)	Magnitude (M)	Probability (P)	(S=	gnificance (E+D+M)*P)	Status (+ve or -ve)	Confidence
Poaching of game	Nature of impact: with	2	3	4	e and stock can occu 3	ir. Theft of game	can be higher on far		is present Medium to high
impacting on the loss of game and in turn affecting	without	5 Where possil	5 ole animals sho	8 uld he fitted with t	4	72 laced in secure 6	High enlosures during the o	- ontaructionand	High
the tourism industry of the Municpality and that of the	can be reversed:						tional phase Is should		
country at large	degree of impact on irreplaceable resources:				where endangered s				
Loss of a sense of place	Nature of impact: with	Touri 1	sts visit places t	o relax and be imn 2	nersed in naturem tl 2	ne presence of p	owerlines can therefo	ore spoil this exp	erince for them Medium to high
resulting in economic	without	3	4	6	3	39	Medium	-	Medium to high
losses especially for tourism sector in turn	degree to which impact can be reversed:	Liase with	Visual Impact sp		best mitgation meas with the least adve		gested measures wou t	ld be to use a	
impact on the economic growth of the Makhado Local Municipality	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:	An increase i	n the power su				to the Makhado Local		electricity is one of the
Increase in power supply	with without	3	4	6	4	52 52	Medium Medium	+	Medium Medium
network. In turn numerous	degree to which impact				N/A				
existing developments such as lodges and other tourist attractions can be improved.	degree of impact on irreplaceable resources:				N/A				
Potential Impact	Mitigation	Extent (E)	Duration (D)	No-Go Alte Magnitude (M)	rantive Probability (P)		gnificance (E+D+M)*P)	Status (+ve or -ve)	Confidence
Powerlines linking the Taborsubstation to the	Nature of impact:	There is volt	age instability a Grid Network d	s the Polokwane C ue to being operat Bokmakirie (Nzhe	ustomer Load Netw ed beyond its reliab	ork (CLN), including the order to strengthe	ling the Tabor and Spe erefore a need for a n en the northern grid o	encer power is to ew powerline Po	ne weakest part of the werlines linking the sion of the Bokmakirie
new Bokmakirie (Nzhelele)		2	1	2	1	5	Low	-	Medium to high
Substation will not be constructed.	without degree to which impact	4 Construct th	5 ne nowerlines	8	3	51	Medium	-	Medium to high
	can be reversed:	- Construct th	ne powerlines						
	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:	The voltage i	s currently unst		ult in impacts such a the inability to unde			n leading to effe	cts such as loss of data
No increase in the voltage	with	1	1	2	1	4	Low	-	Medium
stability	without degree to which impact	3	5	8 Fnsu	re that the voltage i	48 s stabilised	Medium	-	Medium
	can be reversed:			EIISU	ic that the voltage I	3 stabilised			
	degree of impact on irreplaceable resources:				N/A				
No increase and assurance of electricity supply making it unavailable for						-	These can be in the a th of the Makhado M	-	m, manufacturing, and ne compromised.

agriculture, tourism and	with	1	1	2	1	4	Low	-	Medium		
other industries as well as	without	3	5	8	4	64	High	-	Medium		
allowing for the undertaking of other	degree to which impact can be reversed:	Increase elec	tricity supply th	rough measures su	ich as the construction are well maitain		osed power line and ens	ure that these			
activities that may not have been possible before. The absence of an increase in electricity may also hinder the undertaking of other activities that may only be possible with electricity supply	degree of impact on irreplaceable resources:		N/A The backlogs are caused by factors such as a lack of funds and staff shortages. The rendering of services that require the								
	Nature of impact:	,			impossible when th	ere is no electr	icity available.		,		
	with	2	1	4	2	14	Low	-	Medium to high		
Continuation of backlogs in	without	3	4	8	4	60	Medium	-	Medium to high		
electricity connections	degree to which impact can be reversed:						This can include increas adequate material availa				
	degree of impact on irreplaceable resources:				N/A						
	Nature of impact:	In services suc			ricity can result in los	ses of lives					
Continuation of the	with	1	1	0	2	4	Low	-	Medium		
inadequate provision of	without	3	5	10	4	72	High		Medium		
electricity to critical	degree to which impact can be reversed:	The necessity	of electricity to	critical services is	imperative and the pare avoided	proposed power	erline can ensure that ac	lverse impacts			
facilities	degree of impact on irreplaceable resources:				N/A						
Continuation of the	Nature of impact:						These include the cutting eforestation and the po	-	_		
unavailability of electricity	with	1	1	2	2	8	Low	-	Medium		
in numerous rural	without	3	5	8	4	64	High	-	Medium		
settlements	degree to which impact can be reversed:			Pro	vide electricity to ru	ral areas					
	degree of impact on irreplaceable resources:				N/A						

Tabor 400kV Powerline EIA

Social Impacts - Alternative 4

Significance Rating Table

				Constructio	n Phase					
Potential Impact	Mitigation	Extent (E)	Duration (D)	Magnitude (M)	Probability (P)		Significance =(E+D+M)*P)	Status (+ve or -ve)	Confidence	
	Nature of impact:	Madaheni. It i	s possible that h	nigh unmeploymer	nt rates which are pr	evalent in teh l	nerous rural settlements Makhado Local Municip mployment opportunity	ality could also		
	with	3	1	4	2	16	Low	-	Medium to high	
	without	3	1	8	4	48	Medium	-	Medium to high	
Influx of job seekers, mainly unskilled labour, from the communities around the power line route having job expectations	degree to which impact can be reversed:	Identify poss Communical Ensure that of jobs for cor Where the j the communit Where possi construction e period elapses Have clear ri establish stand	sibilities and cre tion strategy we there is a Comn munity memb- lobs have been y and to avoid I blle, ensure tha e.g for vegetatio s, other commu ules and regulat dard operating I	ell in advance of pr nunity liaison office ers e.g vegetation identified, these moitering. t all interested cor in clearing, each co- nity members sho- cions for access to procedures for the	lesk 4 months before oject start er from affected con clearing, food vendo uust also be formalis muunity members g ommunity member could be given an oppo the camp / site office	nmunities and sors ed through issuet an opportunitan be allocated ortunity to also e to control loi oval of loiterer	together with them stud uing of permits to avoid lity to work on the proje d a period of working an work and generate som tering. Consult with the s at the construction sit	conflicts within ect during ad when this ne impact local SAPS to		
	degree of impact on				N/A					
	irreplaceable resources: Nature of impact:	If	toilet facilities	on site are not wel	I managed, these ca	n lead to adver	rse health impacts to the	e surrounding co	n nmunities	
	with	1	1	0	1	2	Low	-	Medium to high	
	without	1	1	6	4	32	Medium	-	Medium to high	
Health Impacts as a result of exposure to sewage from construction camps and on construction camps	degree to which impact can be reversed:	 Pit latrines a must be suffic The toilets s done through shall be service 	re prohibited o ient for all work hall be emptied measures such ed on a regular	n the construction sers at a ratio of 1 and cleaned regul as covering the gr	toilet to 15 persons larly and the contraction ound with a water pecessary replaced.	mobile or por and provided v tor shall ensur	table toilets shall be use	ed. This can be		
	degree of impact on irreplaceable resources: Nature of impact:	Wasta on	site can becom	o a nuicanco for co	N/A	and on farms	and also pose a danger t	a the health of	noonlo and animale	
	with	1	1	0	1	2	Low	-	High	
	without	1	2	2	3	15	Low	-	High	
Health Impacts as a result of exposure to waste (domestic and industrial)	degree to which impact can be reversed:	 Fines could I Waste shall overflowing. T 	be implemented be collected at the the containers v	d for littering" regular intervals in	ed of at recognised f	hat will remove	ed from site and camps l aste shall be separated			
	irreplaceable resources:				N/A					
	Nature of impact:							unity members	or farm workers in the	
	with without	1	1	2	2	8	Low			
Health impacts from construction sites and camps as a result of infectious diseases	degree to which impact can be reversed:	An intense I workers and c "Condoms si and communi approached w Local wome job creation o of having relat as a majority c partners are fi income in any Access at the construction v. Other disease.	Where construction workers are infected with infectious diseases, these can be passed on to the community members of the construction workers and community members of the construction workers and communities as well. An intense HIV/AIDS and STI awareness campaign should be launched. These should be directed at all construction workers and communities as well. "Condoms should be distributed by placing them at centrally located points and by ensuring that construction workers and community members are aware of the availability and location of condoms. The distribution of condoms should be approached with the necessary cultural sensitivity". Local women who may form relationships with construction workers should be empowered through measures such as obscreation on the project as this will result in them becoming financially independent and in turn reduce their likelihood of faving relationships with construction workers in return for financial favours. The empowering of women is important as a majority of the population within the Makhado Local Municipality (MLM) are women and men who may be potential partners are few. Furthermore, a majority of women in MLM are unemployed and will most likely seek to make an income in any way possible Access at the construction site should be controlled to prevent sex workers from either visiting and/or loitering at the construction village. Other diseases eg TB, measles All construction workers should be treated for these and proof of this should be retained							
	degree of impact on irreplaceable resources:				N/A					

	Natura of	IA '	a that be	of appel and all	ing habour a		albona a bon		thus patie			
Conduct of construction	Nature of impact: with	It is possibl	e that because	of good relationsh	ips between contact	ors and commu	nity members, negative	e as well as posi	tive actions can arise Medium to high			
workforce; Good	without	2	1	6	4	36	Medium	-	Medium to high			
relationships between community members/ farm workers and Eskom Construction workers can result in issues such as sexual misconduct and the spread of sexually transmitted diseases	degree to which impact can be reversed:	permission fro • An Environm	om the site offic nental Control C	er/ Environmenta	l Control Officer (ECC be appointed to ensi))	inel are to enter the sit conduct themselves in					
	degree of impact on irreplaceable resources:				N/A							
	Nature of impact: with	2	1	These can result	from factors such as	differences in b	eliefs and cultural back	kgrounds +				
	without	2	1	6	4	36	Medium	-				
Conduct of construction workforce; Bad relationships between community members/ farm workers and Eskom Construction workers leading to violence	degree to which impact can be reversed:	permission from • An Environm way. A fining s	om the site offic nental Control C system for non- the local police	er/ Environmenta Officer (ECO) must compliance must l	nel are to enter the sit conduct themselves in that any possible erupti	an appropriate						
	degree of impact on irreplaceable resources:		N/A Material can be stolen from construction sites and in areas along the route									
	Nature of impact:											
	with	1							Medium			
	without	2	1	8	4	44	Medium	-	Medium			
Theft of material from camps and along construction sites	degree to which impact can be reversed:	security perso fence shall be shadecloth cal practicable. St • In addition t	innel. The fence inspected on a n be attached to corage facilities o the above, all	shall be construct daily basis and and the fence and single shall be lockable.	ted of high quality may y damages should be milar to the fence, sh es entering or leaving	aterial bearing t fixed as soon a all be inspected	lled through a lockable he SABS mark. Furtheri s it is practicable. To in daily and fixed as soor on camp shall be subjec	more, the crease security, n as it is				
	degree of impact on irreplaceable resources:											
	Nature of impact:					project		tant to their live	lihoods will oppose the			
Negative attitudes towards	with without	2	1	6	3	10 27	Low Low	-	Medium Medium			
the project and the formation of community groups, NGO's, in response to the project;	degree to which impact can be reversed:	can contact sh	٠, ٠	queries or comme	with the affected par ents about the projec		e contact details of pers	sons that they				
	degree of impact on irreplaceable resources:				N/A							
	Nature of impact: with	1	1	This would 2	be expected from lar 2	ndowners who a	are opposed to the proj	ject <u>-</u>	Medium			
	without	1	2	6	4	36	Medium	-	Medium			
Land owners denying contractors access to their properties	degree to which impact can be reversed:				ers in regards to proc ormed of the constru		ring onto farms rell as dates for mainte	nance				
	degree of impact on irreplaceable resources:				N/A							
	Nature of impact:						nd during the construct					
	with without	1	3	6	4	8 40	Low Medium	-	Medium to high Medium to high			
Loss of crops leading to economic losses	degree to which impact can be reversed:	Where possiWhere power fallow and withDiscuss with	ible, powerline the can't be th	towers should be places along prop at the loss of land	erty boundaries, ens	undary of the fa ure that constru he construction	rm to lessen the loss of uction takes place wher phase as some activition	n the land is	-			
	degree of impact on irreplaceable resources:				N/A							
	Nature of impact:		Grazing land are	ea can be lost due	to clearing of land fo	or the corridor a	s well as during the cor	nstruction of ac	cess roads			
	with	1	1	2	2	8	Low	-	Medium to high			
	without	1	3	6	4	40	Medium	-	Medium to high			

Loss of land leading to economic losses	degree to which impact can be reversed:	Discuss with as some activity	land owners th	at the loss of some p farming can still	e land may be tempo	orary and will o verline after co	arm to lessen the loss nly be during the con nstruction has ended;	struction phase		
	degree of impact on irreplaceable resources:	Where the I	oss of land is pe	rmanent, Eskom s	hould discuss compe	ensation with la	ndowner			
	Nature of impact:			1	Construction can					
	with without	1	1	8	3	8 30	Low		Medium to high Medium to high	
Impacts on farming activities such as sowing, harvesting, and fire management programmes leading to economic losses	degree to which impact can be reversed:	Construction	should not take	place during seas re this happens, in	ons when there is lik	ely to be high a	activity on farms. In the			
	degree of impact on irreplaceable resources:									
	Nature of impact: with									
	without	1	1	6	3	24	Low	-	Medium to high Medium to high	
Damage to farm infrastructure e.g. irrigation equipment, gates, fences	degree to which impact can be reversed:	is likely to be fixed. • Where poss	Where possible towers should be placed on the edges of farm boundaries and along any existing roads as infrastructure ikely to be minimum or absent with the exception of farm fences and gates which if damaged by contactors should be							
	degree of impact on irreplaceable resources:									
	Nature of impact:			can occur.	Theft of game can b	e higher on farı	ns where Rhino is pre		eft of game and stock	
	with without	1	1	2 10	4	16 48	Low Medium	-	Medium to high Medium to high	
Security concerns as a result of poaching of game, stock theft and crop theft	degree to which impact can be reversed:	 Where poss construction. 	ible, animals sho can also appoir operty	nt guards to ensure	tracking devices or leading that construction w	orkers and the	e enclosures for the d			
	irreplaceable resources:	Th			h where endangered				-14641646-2	
	Nature of impact:	The mere pro		action workers in c	2	presence		and people may f	eel threatened by their	
	with without	2	1	8	3	33	Medium	-	Medium to high Medium to high	
Security as a result of the presence of workers on pfarms and communities	degree to which impact can be reversed:	Advice land Upon arrivir respectively Ensure that logos and a pl Construction inspect these The landow on site. provide the to report any	Advice landowners and community members about construction and maintenance dates Advice landowners and community members about the number of workers expected Upon arriving in a community or farm, workers must inform the community leader and farm owners or managers respectively Ensure that construction workers are easily identifiable by construction uniform with logos and identification cards with logos and a photograph of the worker. Construction vehicles must also be marked Construction workers should also carry their Identity documents with them and the land owner should be allowed to inspect these The landowner should be allowed to check the identification cards and note the names of construction workers present							
	degree of impact on irreplaceable resources:				N/A					
			Construction	sites are biable to	rzadous opvisas s	ate and the set	sty of neonlo and a de-	nals can be seen	omised	
	Nature of impact: with	1	2	2	1	and the safe	ety of people and anin		Medium	
Safety of community members/farm workers/animals	without degree to which impact can be reversed:	place near the • Liase with copossible dang	e construction si ommunity leade ers of moving cl	ites ers/farm owners to lose to the constru	ensure that they wa	arn community	Low languages, placed in a members/farm empl at of construction wor	loyees of the	Medium	
	degree of impact on irreplaceable resources:				N/A					

	Nature of impact:	The pres	ence of powerli	nes particularly in	tourist attractions ca	n result in tour	ists no longer visiting	the area as their	views will be spoilt
Loss of a sense of	with	1	1	2	2	8	Low	-	Medium to high
place/income on game farms – Tourists want to	without	1	1	8	4	40	Medium	-	Medium to high
ee "Africa"and the power	degree to which impact can be reversed:	Choose thos	se corridors that	t will have the leas	ng season is avoided; t impact on the gami r close to game farm	ng industry;	,		
	degree of impact on irreplaceable resources:				N/A				
				Operationa	al Phase				
Potential Impact	Mitigation	Extent (E)	Duration (D)	Magnitude (M)	Probability (P)		ignificance (E+D+M)*P)	Status (+ve or -ve)	Confidence
	Nature of impact:	` '					are harmful to the hea	alth of humans ar	nd animals
	with	1	3	2	1	6	Low	-	Medium
	without	1	5	4	2	20	Low	-	Medium
erceived electromagnetic ields impacts on humans and animals during the operational phase	degree to which impact can be reversed:	 Ensure that communities 	there are no de are not paces a	evelopments belov t risk.		at although adv	verse impacts are unc		
	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:	The pres	ence of powerli	nes particularly in	tourist attractions ca	n result in tour	ists no longer visiting	the area as their	views will be spoilt
Loss of a sense of	with	1	1	2	3	12	Low	-	Medium
place/income on game farms – Tourists want to	without	Plan mainte	nance so that h	8 nunting season is a	4 voided	60	Medium	-	High
ee "Africa" and the power ine can disturb the rustic African setting;	degree to which impact can be reversed:				t impact on the gami	ng industry			
,a. secting,	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:		It is possi	ble that access rou	ites can be of such po	oor state that m	naintenece of the pow	verline is not pos	sible
Poor maintenance of the	with	1	1	2	2	8	Low	-	Medium to high
power line access roads: conflict between Eskom	without degree to which impact	1	4	8	4	52	Medium	-	Medium to high
and the landowners on	can be reversed:				N/A				
do maintenance on these oads. Farmers use it more ften but yet expect Eskom o pay for all maintenance	degree of impact on	Put a firm neg	gotiated contrac	it in place during th	he operational phase				
	Nature of impact:		Where pov	verlines are not vis	sible or known, plane	crashes can res	sult and in turn electr	icty outages may	occur
	with without	1 4	5	6	2 4	10 60	Low Medium	-	Medium to high
mpact of the power lines on aircraft as there are airports within the study area; one is the Louis Trichardt airport and the ther is for light aircraft on the road towards Waterpoort from Louis	degree to which impact can be reversed:	Information issue;Consult legiEnsure that	not available o slative restrictic powerlines are	n Louis Trichardt a ons and possible pe clearly visible to a	irport. National aviat	ion should prov	vide information on se	eriousness of this	Medium to high
Trichardt	degree of impact on irreplaceable resources:				N/A				
Decrease in property	Nature of impact:	1	3	4	These can le	ad to economic	losses	_	Medium to high
values and number of	without	2	5	6	3	39	Medium	-	Medium to high
isitirs to lodges and other reas that are popular with	degree to which impact can be reversed:	Vegetation	can be used to	screen the power	lines and other meas	ures can be dis	cussed with Visual Im	pact Specialist	
tourists due to the visual impacts of powerlines	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:	The presence	of construction	workers can resul	It in the treat of safet	y and can possi	bly lead to actual crin	nes being commi	tted on some proper
	with	1	1	2	2	8	Low	-	Medium to high
Security issues as a result of the presence of	without						hes with logos and ide		High

	degree of impact on		The	impact can he hig	h where endangere	d species such a	s Rhino occur		
	irreplaceable resources:			impact can be mg					
	Nature of impact: with	1	1	2	This can result in 2	n maintenance r			Madium
	without	1	1	8	4	40	Low Medium	-	Medium High
Land owners denying contractors access to their properties	degree to which impact can be reversed:	the procedu necessar	res.eg it can be a y, providing the	agreed that, farme m with spare keys	rs must not to chan for easy access to th	ge locks to gates neir properties d	oth Eskom and farmer s without informing Esl uring maitenance.Desp on the route on his pro	kom, and where pite this, the	
	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:			This is a high p	robability as the nor	thern posrtion	of this route runs along	g numer	
	with without	1	1 1	2	2	2 8	Low	-	Medium to high Medium to high
Poaching of game as well as stock theft and theft of crops	degree to which impact can be reversed:	As mainten	ance will only o	ccur once in 1 or 2	years (depending o	n Eskom) the like	elihood for activities su ave the time to plan a		inculari to rigi
	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:						ties are likely to be ver		Madium to be
	with without	1	1 1	2	1	4	Low	-	Medium to high Medium to high
Impact on farming activities such as sowing, harvesting, and fire management programmes leading to economic losses	degree to which impact can be reversed:		or a significantly	shorter duration, b	out must at all costs	be avoided. This	uction, the impacts on s can be through meas high activity on farms.	ures such as	
	irreplaceable resources: Nature of impact:	During	the operational	nhase impacts on		ests to lodges a	nd other tourist destni	ations are likely:	to he very minimal
Impact on farming activities such as hunting in			•			coto to louges u		ations are interp	
game farms leading to	with without	1	1 1	2	1	4	Low	-	Medium to high Medium to high
economic losses. Impacts can also be on guests in lodges leading to economic	degree to which impact can be reversed:	1	1 1		1		Low		Wediam to mgm
losses	degree of impact on irreplaceable resources:				N/A				
	Nature of impact: with		An	increased voltage v	will ensure that activ	vities that were	not able to take place	will be possible	
	without	3	5	8	5	80	High	+	Medium
Increase in the voltage stability	degree to which impact can be reversed:				N/A				
	degree of impact on irreplaceable resources: Nature of impact:	D.	aliable electricity	veupply is a positiv	N/A	oprove activities	such as touriam in the	a Makhado Local	Municipality
	with	3	4	2	4	36	Medium	+	Medium
An accurage of a self-life	without	2	1	6	4	36	Medium	+	Medium
An assurance of a reliable electricity supply	degree to which impact can be reversed: degree of impact on				N/A				
Increase of electricity	irreplaceable resources: Nature of impact:			In order to grow	N/A the economy of the	e Makhado Loca	l Municipality, electric	ity is vital	
supply making it available	with								
for agriculture, tourism and other industries. The increase in electricity can	without degree to which impact can be reversed:	3	5	8	5 N/A	80	High	+	Medium
also allow for the undertaking of other activities that may have	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:	The absen	ice of backlogs in	electricy connect	ions can imply that	activities that ca	n only take place whe	re electicity is pr	esent will be possible
	with without	3	5	8	5	80	High	+	Medium
No more backlogs in electricity Connections	degree to which impact can be reversed:	J	J	8	N/A	- 80	High		cuuri
	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:								
	with						1		
The inadequate provision	with without	3	5	8	5	80	High	+	Medium
of electricity to services	without degree to which impact	3	5	8		80	High	+	Medium
of electricity to services	without degree to which impact can be reversed: degree of impact on	3	5	8	5 N/A N/A	80	High	+	Medium
of electricity to services such as health facilities will	without degree to which impact can be reversed: degree of impact on irreplaceable resources:	3			N/A N/A				Medium
of electricity to services such as health facilities will	without degree to which impact can be reversed: degree of impact on	3			N/A N/A		High ne lives of many who li		Medium

to numerous rural settlements that do not	degree to which impact can be reversed:				N/A						
have this service	degree of impact on irreplaceable resources:				N/A						
			D	ecommission	ning Phase						
Potential Impact	Mitigation	Extent (E)	Duration (D)	Magnitude (M)	Probability (P)	_	ignificance (E+D+M)*P)	Status (+ve or -ve)	Confidence		
	Nature of impact:	The decommithe Makhado this powerline	sioning of a por Local Municipal	werline can creatir lity which may con ned, the size of the	ng employment experi tinue up to the perio	ctations for job	seekers against the ba werline is decommision will have grown and t	ickground of lov led. It is also pos	ssible that by the time		
	with	1	1	0	1	2	Low	-	Medium to high		
	without	1	2	2	2	10	Low	-	Medium to high		
Influx of job seekers	degree to which impact can be reversed:	Identify poss Communical Ensure that of jobs for cor Where the j the communit Where possi decommissior community m Have clear ri establish stans	sibilities and cre- tion strategy we there is a Comm munity memb jobs have been y and to avoid ib ible, ensure tha ninge.g, each co- embers should ules and regular dard operating	ell in advance of de nunity liaison office ers e.g., food vend identified, these moitering. t all interested cor mmunity member be given an oppor tions for access to procedures for the	lesk 4 months before ecommissioning start er from affected com- ors uust also be formalise mmunity members ge can be allocated a p- tunity to also work ai the camp / site office	munities and to ed through issui et an opportuni eriod of workin nd generate sor e to control loit oval of loiterers	ogether with them studing of permits to avoid ty to work on the projeg and when this period me impact. ering. Consult with the at the construction sit	conflicts within ect during elapses, other			
	degree of impact on irreplaceable resources:				N/A						
	Nature of impact: with	If	toilet facilities	on site are not wel	l managed, these car	n lead to advers	e health impacts to the	surrounding co	mmunities Medium to high		
Health Impacts as a result	without	1	1	6	3	24	Low	-	Medium to high		
of exposure to sewage	degree to which impact				undings to relieve the camps or sites. Only		able toilets shall be use	ed and these			
from construction camps and on construction camps	degree of impact on	must be suffic	Pit latrines are prohibited on the construction camps or sites. Only mobile or portable toilets shall be used and these hust be sufficient for all workers at a ratio of 1 toilet to 15 persons and provided with toilet paper. N/A								
	irreplaceable resources: Nature of impact:	Where cons	truction worke	rs are infected with	infectious diseases	these can be n	assed on to the commi	inity members	or farm workers in the		
	with	1	1	2	2	8	Low	-	or raini workers in the		
Health impacts from construction sites and	without degree to which impact	An intense H	1 IIV/AIDS and ST	1 awareness camp	3 aign should be launc	hed. These show	Low uld be directed at all co	- nstruction			
camps as a result of infectious diseases	can be reversed: degree of impact on irreplaceable resources:		ommunities as		N/A						
	Nature of impact:	It is possibl	e that because		ips between contact	ors and commu	nity members, negativ	e as well as posi			
Conduct of construction workforce; Good	with without	2	1	6	4	10 36	Low Medium	-	Medium to high Medium to high		
relationships between community members/ farm workers and Eskom Construction workers can result in issues such as sexual misconduct and the spread of sexually	degree to which impact can be reversed:	permission fro • An Environm	om the site offic nental Control C	er/ Environmental	Control Officer (ECC be appointed to ensu))	nnel are to enter the sit				
transmitted diseases	degree of impact on irreplaceable resources:				N/A						
	Nature of impact:	These can re	sult from factor		es in beliefs and cult ural settlements in w	_	ds. These differences a zh 4 is proposed	re likely to be m	ore pronounced in the		
	with without	2 2	1	2 6	2 4	10 36	Low Medium	-	Low		
Conduct of construction workforce; Bad relationships between community members/ farm workers and Eskom Construction workers leading to violence	degree to which impact can be reversed:	In the Environmermission from An Environmermy. A fining sometime Liasing with can be avoide.	onmental Mana om the site offic nental Control C system for non- the local police d	gement Plan (EMP er/ Environmental Officer (ECO) must compliance must b and having securit) ,state that no unau Control Officer (ECC be appointed to ensi be set in place; ty personnel on the s	thorised persor) ure contractors site will ensure 1	nnel are to enter the sit conduct themselves in that any possible erupt • As far as possil een the locals and com	an appropriate ion of violence ble, locals			
	degree of impact on irreplaceable resources:				N/A						
	Nature of impact:	Material ca	n be stolen from	n the sites where o	decommissioning is t	aking place as r	naterial used in electric	city is often the	targeted by criminals		
Theft of material from	with	1	1	0	1	2	Low	-	Medium		
camps and along construction sites	without degree to which impact can be reversed:						Medium lled through a lockable he SABS mark. Further		Medium		
	degree of impact on irreplaceable resources:										

	Nature of impact:		Land and crops	can be lost during	the clearing of the p	owerline corrid	or and during the cons	truction of the	oowerline	
	with	1	1 3	2 6	2	8 40	Low	-	Medium to high Medium to high	
Loss of crops leading to economic losses	without degree to which impact				e land is fallow and w		Medium	-	ivieulum to mgn	
economic iosses	can be reversed:	Where poss	ible, powerline t	owers should be l	ocated along the bou	undary of the fa	rm to lessen the loss of	crops		
	degree of impact on irreplaceable resources:				N/A					
	Nature of impact:		Grazing land are	ea can be lost due	to clearing of land fo	r the corridor a	s well as during the cor	nstruction of acc	ess roads	
	with	1	3	2	2	8	Low	-	Medium to high	
Loss of land leading to	without degree to which impact			6 owers should be l		undary of the fa	Medium rm to lessen the loss of	- Fland	Medium to high	
economic losses	can be reversed:	Discuss with	land owners th	at the loss of some	e land may be tempo	rary and will or	ly be during the constr	uction phase		
	degree of impact on irreplaceable resources:	Where the le	oss of land is pe	rmanent, Eskom sl	hould discuss compe	nsation with lar	ndowner			
	Nature of impact:				Construction can					
	with without	1	1	2 8	3	8 30	Low Low	- :	Medium to high Medium to high	
Impacts on farming activities such as sowing,	Without			-			high activity on farms.	In the case of	Wicaiaiii to iiigii	
harvesting, and fire management programmes leading to economic losses	degree to which impact can be reversed:		truction can occ	ur before this hap	=	harvesting, dec	ommissioning can occu			
	degree of impact on irreplaceable resources:				N/A					
	Nature of impact:	1	I 1				members and farmers	1	Madisus to bigh	
	with without	1	1	6	3	24	Low Low	-	Medium to high Medium to high	
Damage to farm infrastructure e.g. irrigation equipment, gates, fences	degree to which impact can be reversed:	is likely to be fixed. • Where possiteam should p	Where possible towers should be placed on the edges of farm boundaries and along any existing roads as infrastructure is likely to be minimum or absent with the exception of farm fences and gates which if damaged by contactors should be xed. Where possible, farm infrastructure can be moved for the duration of decommissioning; where this the costruction eam should place measures in place to ensure that the structures thay are dismantling will not harm any farm infrastructure. Where this occurs, the infrastructure must be fixed to the satisfaction of its owner (farmer)							
	degree of impact on irreplaceable resources:				N/A					
	Nature of impact:						e can be higher on farm	ns where Rhino i		
	with without	1	1	2 10	4	16 48	Low Medium	-	Medium to high Medium to high	
Security concerns as a result of poaching of game, stock theft and crop theft	degree to which impact can be reversed:	 Where poss construction. 	ible, animals sho	ould be fitted with		placed in secure	enclosures for the dur			
	degree of impact on irreplaceable resources:				h where endangered					
	Nature of impact: with	The mere pre	esence of contru	ction workers in c	ommunities and esp	ecially on farms	can lead to unease an	o people may fo	eel threatened by their Medium to high	
Security as a result of the	without	2	1	8	3	33	Medium	-	Medium to high	
presence of workers on	degree to which impact can be reversed:	Advice lands	owners and com	munity members	about construction a	nd maintenance	e dates			
pfarms and communities	degree of impact on irreplaceable resources:	- Advice land		·	N/A					
	Nature of impact: with	1	During d	ecommissioning tl 2	ne dismatling of strue	ctures can resul	t in possibl injury to hu	mans and anim -	als Medium	
Safety of community	without	1	1	6	2	16	Low		Medium	
members/farm workers/animals	degree to which impact can be reversed:		the construction si		are fenced off and sig	gnage, in local I	anguages, placed in a c	onspicuous		
	degree of impact on irreplaceable resources:				N/A					
Poor maintenance of the power line access roads:	Nature of impact: with	1	It is possil	ole that access rou 2	tes can be of such po	oor state that m	laintenece of the powe	rline is not poss	ible Medium to high	
conflict between Eskom										
and the landowners on	without	1	4	8	4	52	Medium	-	Medium to high	
whose responsibility it is to	degree to which impact	1	•		4 the operational phas		Medium	-	Medium to high	
whose responsibility it is to do maintenance on these roads. Farmers use it more often but yet expect Eskom	degree to which impact	1	•	act in place during	the operational phas		Medium	-	Medium to high	
do maintenance on these roads. Farmers use it more	degree to which impact can be reversed: degree of impact on	1 • Put a firm no	egotiated contra	ct in place during	the operational phase N/A Impacts	se		-	Medium to high	
do maintenance on these roads. Farmers use it more	degree to which impact can be reversed: degree of impact on	1 • Put a firm no	egotiated contra	ct in place during Cumulative Magnitude	the operational phase N/A Impacts Probability	Se Si	gnificance	Status (+ve or -ve)	Medium to high Confidence	
do maintenance on these roads. Farmers use it more often but yet expect Eskom	degree to which impact can be reversed: degree of impact on irreplaceable resources:	1 • Put a firm no	egotiated contra	ct in place during Cumulative Magnitude (M)	n/A Impacts Probability (P)	Si (S=		(+ve or -ve)	Confidence	
do maintenance on these roads. Farmers use it more often but yet expect Eskom Potential Impact Poaching of game	degree to which impact can be reversed: degree of impact on irreplaceable resources: Mitigation Nature of impact: with	Put a firm no Extent (E) 2	Duration (D) It is highly likely	Cumulative Magnitude (M) that theft of gam	N/A Impacts Probability (P) e and stock can occu	Si (S=	gnificance (E+D+M)*P) e can be higher on farm Low	(+ve or -ve)	Confidence s present Medium to high	
do maintenance on these roads. Farmers use it more often but yet expect Eskom Potential Impact	degree to which impact can be reversed: degree of impact on irreplaceable resources: Mitigation Nature of impact:	Put a firm no Extent (E) 2 5	Duration (D) It is highly likely 3 5	Cumulative Magnitude (M) that theft of gam 4 8	N/A Impacts Probability (P) e and stock can occu	Si (S= r. Theft of game 27 72	gnificance (E+D+M)*P) e can be higher on farm	(+ve or -ve) as where Rhino	Confidence s present	
do maintenance on these roads. Farmers use it more often but yet expect Eskom Potential Impact Poaching of game impacting on the loss of	degree to which impact can be reversed: degree of impact on irreplaceable resources: Mitigation Nature of impact: with without degree to which impact can be reversed: degree of impact on	Extent (E) 2 5 Where possit	Duration (D) It is highly likely 5 bole, animals should decommissionin	Cumulative Magnitude (M) that theft of gam 4 8 ald be fitted with t g phases as well as	N/A Impacts Probability (P) e and stock can occu 4 racking devices or pl	se Si S= r. Theft of game 27 72 aced in secure e as an activity of	gnificance (E+D+M)*P) e can be higher on farm Low High enlosures during the co f the operational phas	(+ve or -ve) as where Rhino antaructionand	Confidence s present Medium to high	
do maintenance on these roads. Farmers use it more often but yet expect Eskom Potential Impact Poaching of game impacting on the loss of game and in turn affecting the tourism industry of the Municpality and that of the	degree to which impact can be reversed: degree of impact on irreplaceable resources: Mitigation Nature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources:	Extent (E) 2 5 Where possit	Duration (D) It is highly likely 3 5 Dle, animals shoudecommisionin	Cumulative Magnitude (M) that thef of gam 4 8 uld be fitted with to g phases as well as	N/A Impacts Probability (P) e and stock can occu 4 rracking devices or pl s during maintenance where endangered s	se Si (S= r. Theft of game 27 72 aced in secure e as an activity of pecies such as i	gnificance (E+D+M)*P) e can be higher on farm Low High enlosures during the cof f the operational phas	(+ve or -ve) as where Rhino	Confidence s present Medium to high High	
do maintenance on these roads. Farmers use it more often but yet expect Eskom Potential Impact Poaching of game impacting on the loss of game and in turn affecting the tourism industry of the Municpality and that of the	degree to which impact can be reversed: degree of impact on irreplaceable resources: Mitigation Nature of impact: with without degree to which impact can be reversed: degree of impact on	Extent (E) 2 5 Where possit	Duration (D) It is highly likely 3 5 Dle, animals shoudecommisionin	Cumulative Magnitude (M) that thef of gam 4 8 uld be fitted with to g phases as well as	N/A Impacts Probability (P) e and stock can occu 4 rracking devices or pl s during maintenance where endangered s	se Si (S= r. Theft of game 27 72 aced in secure e as an activity of pecies such as i	gnificance (E+D+M)*P) e can be higher on farm Low High enlosures during the co f the operational phas	(+ve or -ve) as where Rhino	Confidence s present Medium to high High	

resulting in economic	without	3	4	6	3	39	Medium	-	Medium to high
losses especially for tourism sector in turn	degree to which impact			pecialist to get the	best mitgation meas	ures; other sugg	ested measures would	be to use a	mediani to ingi:
impact on the economic growth of the Makhado Local Municipality	degree of impact on			tower type	with the least adver	rse visual impact	t <u> </u>		
Local Municipality	irreplaceable resources:	An increase in	the nowersu	nnly and in the sta	hility of the network	would be vital to	o the Makhado Local N	Aunicinality as	electricity is one of the
Increase in power supply	Nature of impact:			hindrances to	the development of	the area and in	turn an improved eco	nomv	
and in the stability of the	with without	3	4 4	6	4	52 52	Medium Medium	+	Medium Medium
etwork. In turn numerous	degree to which impact	J			N/A	<u> </u>			Mediani
existing developments such as lodges and other tourist attractions can be improved.	can be reversed: degree of impact on irreplaceable resources:				N/A				
				No-Go Alte	rantive				
		Extent	Duration	Magnitude	Probability	Sia	gnificance	Status	
Potential Impact	Mitigation	(E)	(D)	(M)	(P)	(S=(E+D+M)*P)	(+ve or -ve)	Confidence
	Nature of impact:						ing the Tabor and Sper		
Powerlines linking the	with without	2	5	8	3	5 51	Low Medium	-	Medium to high Medium to high
Taborsubstation to the	degree to which impact		•			<u> </u>			ivicularii to iligii
ew Bokmakirie (Nzhelele) Substation will not be	can be reversed:	Construct th	e powernines						
constructed.	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:	The voltage i	s currently unst	able. This can resu	ult in impacts such as	electrical equip	ment being shut dowr	leading to effe	
	with	1	1	2	1	4	Low		Medium
No increase in the voltage	without degree to which impact	3	5	8	3	48	Medium	-	Medium
stability	can be reversed:			Ensu	re that the voltage is	s stabilised			
	degree of impact on irreplaceable resources:	N/A							
No increase and assurance f electricity supply making it unavailable for	Nature of impact:						These can be in the ag th of the Makhado Mu		
agriculture, tourism and	with	1	1	2	1	4	Low	-	Medium
other industries as well as	without	3	5	8	4	64	High sed power line and ens	-	Medium
allowing for the undertaking of other	degree to which impact can be reversed:	mcrease elec	tricity supply tr	irougii iileasures si	are well maitain		seu power line and ens	sure that these	
activities that may not have been possible before. The absence of an increase in electricity may also hinder the undertaking of other activities that may only be possible with electricity supply	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:	The backlog	s are caused by	factors such as a I	ack of funds and sta	aff shortages. Th	e rendering of services	that require t	ne use of electricity i
	with	2	1	4	2	14	Low	-	Medium to high
	without	3	4	8	4	60	Medium		Medium to high
continuation of backlogs in electricity connections	degree to which impact can be reversed:						his can include increas dequate material avail		
	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:				ricity can result in los				
Continuation of the	with	3	5	0 10	2	72	Low	-	Medium Medium
inadequate provision of	without degree to which impact						High line can ensure that a	dverse impacts	ivieululli
electricity to critical services such as health	can be reversed:				are avoided				
facilities	degree of impact on irreplaceable resources:				N/A				
					tab to ab to more to one or	ill agastiaa Th	nese include the cuttin		the wood for heatin
	Nature of impact:		ctricity means to oking. The cutt				forestation and the po		
Continuation of the	Nature of impact:								
unavailability of electricity	with without	and co	oking. The cutt	ing of trees has nu	merous adeverse im	pacts such as de	forestation and the po		otected species.
Continuation of the unavailability of electricity in numerous rural settlements	with	and co	oking. The cutt	ing of trees has nu	merous adeverse im	pacts such as de	forestation and the po	essible loss of pr	otected species. Medium

Tabor 400kV Powerline EIA

Social Impacts - Alternative 5

Significance Rating Table

				Constructio	n Phase				
Potential Impact	Mitigation	Extent (E)	Duration (D)	Magnitude (M)	Probability (P)	_	nificance :+D+M)*P)	Status (+ve or -ve)	Confidence
	Nature of impact:	Material can	be stolen from	construction sites	_	he route especial that are in existe	•	powerlines is o	ften stolen even along
	with	1	1	0	1	2	Low	-	Medium
	without	2	1	8	4	44	Medium	-	Medium
Theft of material from camps and along construction sites	degree to which impact can be reversed:	security perso fence shall be shadecloth ca practicable. St • In addition t	nnel. The fence inspected on a n be attached to orage facilities o the above, all	shall be construct daily basis and any the fence and sin shall be lockable.	ed of high quality may damages should be nilar to the fence, shees entering or leaving	aterial bearing the fixed as soon as all be inspected of	ed through a lockable e SABS mark. Further it is practicable. To in laily and fixed as soor n camp shall be subjec	more, the crease security, as it is	
	degree of impact on irreplaceable resources:								
	Nature of impact:					project		tant to their live	lihoods will oppose the
	with	2	1	2	2	10	Low	-	Medium
Negative attitudes towards	without	2	1	6	3	27	Low	-	Medium
the project and the formation of community groups, NGO's, in response to the project;	degree to which impact can be reversed:	can contact sh		queries or comme	vith the affected par ents about the projec		contact details of pers	sons that they	
	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:		1 4				e opposed to the pro		Is an divers
	with	1	1	2	2	8	Low	-	Medium
	without	1	2	6	4	36	Medium	-	Medium
Land owners denying contractors access to their properties	degree to which impact can be reversed: degree of impact on irreplaceable resources:				rs in regards to proc rmed of the constru N/A		Il as dates for mainte	nance	
	Nature of impact:		•				r and during the cons	truction of the	•
	with without	1	3	6	4	8 40	Low Medium	-	Medium to high
Loss of crops leading to economic losses	degree to which impact can be reversed:	 Ensure that Where possi Where power fallow and wit Discuss with 	construction tal ble, powerline er lines can't be h no crops land owners th	kes place when the towers should be I places along prop nat the loss of land	e land is fallow and w ocated along the boo erty boundaries, ens	with no crops undary of the farr ure that construction p	n to lessen the loss o tion takes place when hase as some activition	n the land is	Medium to high
	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:		Grazing land are	ea can be lost due	to clearing of land fo	r the corridor as	well as during the cor	nstruction of ac	cess roads
	with	1	1	2	2	8	Low	-	Medium to high
	without	1	3	6	4	40	Medium	-	Medium to high
Loss of land leading to economic losses	degree to which impact can be reversed:	 Discuss with as some activi 	land owners th ties such as cro	at the loss of some p farming can still	e land may be tempo	orary and will only verline after cons	m to lessen the loss o' y be during the constr truction has ended; ir	ruction phase	
	degree of impact on irreplaceable resources:	Where the lo	oss of land is pe	rmanent, Eskom s	hould discuss compe				
	Nature of impact:				Construction can				
	with	1	1	2	2	8	Low	-	Medium to high
	without	1	1	8	3	30	Low	-	Medium to high

Impacts on farming activities such as sowing, harvesting, and fire management programmes leading to economic losses	degree to which impact can be reversed:			re this happens, ir		ing, constructio	ctivity on farms. In the n can occur after this h uction		
	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:						members and farmers		In a catherine are feller
	with without	1	1	6	3	4 24	Low	-	Medium to high Medium to high
Damage to farm infrastructure e.g. irrigation equipment, gates, fences	degree to which impact can be reversed:	is likely to be r fixed. • Where poss	ninimum or ab	sent with the exce	ption of farm fences	and gates which	ng any existing roads a n if damaged by contac on; where this is not po	ctors should be	
	degree of impact on irreplaceable resources:				N/A				
	Nature of impact: with	1			e and stock can occu	r. Theft of game	e can be higher on farm	ns where Rhino	
	without	1	1	10	4	48	Medium	-	Medium to high Medium to high
Security concerns as a result of poaching of game, stock theft and crop theft	degree to which impact can be reversed:	 Where possi construction. 	ble, animals sho can also appoir		tracking devices or p		enclosures for the dur		
	degree of impact on irreplaceable resources:		The	impact can be hig	h where endangered	l species such as	s Rhino occur		
	Nature of impact:			•	•		arms can lead to uneas		
	with without	2	1	8	3	33	Low Medium	-	Medium to high Medium to high
Security as a result of the presence of workers on pfarms and communities	degree to which impact can be reversed:	Advice lando Upon arrivin respectively Ensure that I logos and a ph Construction inspect these The landowr on site. provide the I to report any s	whers and com g in a communiconstruction we otograph of the workers should her should be all andowners and suspicious beha	munity members ity or farm, worker orkers are easily id e worker. Construd d also carry their lillowed to check the d community mem aviour on their pro	entifiable by constru tion vehicles must a dentity documents w e identification cards bers should be prov	of workers experommunity leader to community l	cted r and farm owners or r with logos and identificate land owner should be ames of construction v ct details of Eskom and at seem to be unauthor	e allowed to workers present	
	degree of impact on irreplaceable resources:				N/A				
	Nature of impact: with	1	Construction 1	sites are highly ha	rzadous environmer 1	nts and the safe	ty of people and anima Low	ils can be compr	omised Medium
	without	1	1	6	2	16	Low	-	Medium
Safety of community members/farm workers/animals	degree to which impact can be reversed:	place near the • Liase with co possible dange	construction s mmunity leade ers of moving cl	ites ers/farm owners to lose to the constru	ensure that they wa	arn community	anguages, placed in a c members/farm employ t of construction worke	ees of the	
	degree of impact on irreplaceable resources:				N/A				
	Nature of impact: with	1	It is possi	ble that access rou 2	tes can be of such p	oor state that m	naintenece of the power	erline is not poss	Medium to high
Poor maintenance of the power line access roads:	without degree to which impact can be reversed:	1	4	8	4 the operational phase	52	Medium	-	Medium to high
conflict between Eskom and the landowners on whose responsibility it is to do maintenance on these roads. Farmers use it more often but yet expect Eskom to pay for all maintenance	degree of impact on				N/A				

	Nature of impact:	The pres	ence of powerli	nes particularly in	tourist attractions co	an result in tour	ists no longer visitinį	g the area as their	views will be spoilt
Loss of a sense of	with	1	1	2	2	8	Low		Medium to high
place/income on game farms – Tourists want to	without	1	1	8	4	40	Medium	-	Medium to high
see "Africa" and the power line can disturb the rustic African setting;	degree to which impact can be reversed:	 Choose thos 	se corridors that	will have the leas	ng season is avoided t impact on the gam r close to game farm	ing industry;			
	degree of impact on irreplaceable resources:			Operations	J Dhasa				
Potential Impact	Mitigation	Extent (E)	Duration (D)	Operationa Magnitude (M)	Probability (P)		ignificance (E+D+M)*P)	Status (+ve or -ve)	Confidence
	Nature of impact:		It is not certain	if these do occur,	but there is a perce	otion that they a	are harmful to the he	ealth of humans ar	nd animals
	with without	1	3 5	2	2	6 20	Low Low	-	Medium Medium
Perceived electromagnetic fields impacts on humans and animals during the operational phase	degree to which impact can be reversed:	Inform com Ensure that communities:	munities and lar there are no de are not paces at	ndowners about the evelopments below trisk.	he perceived impact v the powerline so the	s of powerlines hat although ad	verse impacts are un		
	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:	The pres	ence of powerli	nes particularly in	tourist attractions co	an result in tour	ists no longer visiting	g the area as their	views will be spoilt
Loss of a sense of	with	1 3	1 4	2 8	3 4	12 60	Low	-	Medium
place/income on game farms – Tourists want to see "Africa"and the power line can disturb the rustic	without degree to which impact can be reversed:	Plan mainte	nance so that h	unting season is a		der	Medium		High
African setting;	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:		It is possi	ble that access rou	ites can be of such p	oor state that n	naintenece of the po	werline is not pos	sible
Poor maintenance of the	with	1	1	2	2	8	Low	-	Medium to high
power line access roads: conflict between Eskom	without degree to which impact	1	4	8	4 N/A	52	Medium	-	Medium to high
often but yet expect Eskom to pay for all maintenance	degree of impact on irreplaceable resources:	Put a firm neg	otiated contrac	t in place during th	ne operational phase	2			
	Nature of impact: with	1	Where pov	verlines are not vis	ible or known, plane 2	crashes can res	sult and in turn elect	tricty outages may	occur Medium to high
	without	4	5	6	4	60	Medium	-	Medium to high
Impact of the power lines on aircraft as there are airports within the study area; one is the Louis Trichardt airport and the other is for light aircraft on the road towards Waterpoort from Louis Trichardt	degree to which impact can be reversed:	issue; • Consult legis • Ensure that	slative restrictio powerlines are	ns and possible pe clearly visible to ai	ermit application.		vide information on s	seriousness of this	
mende	degree of impact on irreplaceable resources:				N/A				
Decrease in property	Nature of impact: with	1	3	4	These can le	ead to economic	losses		Medium to high
values and number of	without	2	5	6	3	39	Medium	-	Medium to high
visitirs to lodges and other areas that are popular with tourists due to the visual	degree to which impact can be reversed:	Vegetation	can be used to	screen the power	lines and other mea	sures can be dis	cussed with Visual In	npact Specialist	
impacts of powerlines	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:	·		•			•	imes being commi	tted on some propertie
	with without	1	1	4	2	8 24	Low	-	Medium to high High
Security issues as a result of the presence of maintenance workers on properties	degree to which impact can be reversed:	with ph maintenanc liase with land them about	notographs. The e workers prese downers to adv the number of	landowner should ent on site. Even w ice them on the da personell expected	I be allowed to chec ith mitigation howen ites of construction d, the landownwer of	k the identificat ver, farmers man of the powerline an also be provi	hes with logos and it ion cards and note th y still feel unsafe on on his propoerty as ided with contact de seem to be unathor	he names of their properties; s well as informing stails of Eskom to	
	degree of impact on irreplaceable resources:		The	impact can be hig	h where endangered	d species such a	s Rhino occur		

	Natura of impacts				This can result in	maintonanco n	ot occuring		
	Nature of impact: with	1	1	2	This can result in	maintenance n	ot occuring Low	-	Medium
	without	1	1	8	4	40	Medium	-	High
Land owners denying contractors access to their properties	degree to which impact can be reversed:	the procedur necessary	res.eg it can be a ,, providing ther	agreed that, farme m with spare keys	rs must not to change for easy access to the	e locks to gates eir properties di	oth Eskom and farme without informing Es uring maitenance.Des n the route on his pro	kom, and where pite this, the	
	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:		1	1		high probabilit			Ī
	with without	1	1	0 2	2	2 8	Low Low		Medium to high Medium to high
Poaching of game as well as stock theft and theft of crops	degree to which impact can be reversed:	As mainten	ance will only oc	ccur once in 1 or 2	years (depending on	Eskom) the like	lihood for activities s		medan to ng.
	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:	4	1 4				ies are likely to be ve	ry minimal	Medium to high
	with without	1	1	2	1 1	4	Low Low	-	Medium to high
Impact on farming activities such as sowing, harvesting, and fire management programmes leading to economic losses	degree to which impact can be reversed:		r a significantly	shorter duration, I	out must at all costs b	oe avoided. This	uction, the impacts or can be through mea nigh activity on farms	sures such as	
	degree of impact on irreplaceable resources:				N/A				
Impact on farming	Nature of impact:	During t	the operational p	phase, impacts on	actvities and on gue	sts to lodges an	d other tourist destn	iations are likely t	to be very minimal
activities such as hunting in	with	1	1	0	1	2	Low	-	Medium to high
game farms leading to economic losses. Impacts	without degree to which impact	1	1	2	1	4	Low	-	Medium to high
can also be on guests in	can be reversed:								
lodges leading to economic losses	degree of impact on irreplaceable resources:				N/A				
	Nature of impact: with		An i	ncreased voltage	will ensure that activi	ities that were r	ot able to take place	will be possible	ı
	without	3	5	8	5	80	High	+	Medium
Increase in the voltage	degree to which impact				N/A				
stability	can be reversed: degree of impact on irreplaceable resources:				N/A				
	Nature of impact:	Re	liable electricity	supply is a positiv	e impact that will im	prove activities	such as touriam in th	e Makhado Local	
	with	3 2	4	2	4	36	Medium	+ +	Medium Medium
An assurance of a reliable	without degree to which impact	2	1	6		36	Medium	+	Iviedium
electricity supply	can be reversed:				N/A				
	degree of impact on irreplaceable resources:				N/A				
Increase of electricity supply making it available	Nature of impact: with		1	In order to grow	the economy of the	Makhado Local	Municipality, electric	city is vital	
for agriculture, tourism	without	3	5	8	5	80	High	+	Medium
and other industries. The increase in electricity can also allow for the	degree to which impact can be reversed:				N/A				
undertaking of other activities that may have	degree of impact on irreplaceable resources: Nature of impact:	The absen	ce of backlogs in	electricy connect	N/A ions can imply that a	ctivities that ca	n only take place whe	ere electicity is no	esent will be possible
	with								
No more backlogs in	without degree to which impact	3	5	8	5	80	High	+	Medium
electricity Connections	can be reversed:				N/A				
	irreplaceable resources: Nature of impact:				N/A				
The inadequate are visit	with	2	-	0	-	00	High		Modium
The inadequate provision of electricity to services such as health facilities will	without degree to which impact can be reversed:	3	5	8	5 N/A	80	High	+	Medium
cease	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:		Th	ne presence of ele	ctricity to rural areas	will improve th	e lives of many who I	ive in poverty	
Electricity will be available	with without	3	5	8	5	80	High	+	Medium
to numerous rural settlements that do not	degree to which impact can be reversed:				N/A		- 11811		
have this service	degree of impact on irreplaceable resources:				N/A				
	<u> </u>								

Potential Impact	Mitigation	Extent (E)	Duration (D)	ecommissior Magnitude (M)	Probability (P)	Significance (S=(E+D+M)*P)	Status (+ve or -ve)	Confidence
	Nature of impact:	Material ca	ın be stolen froi	m the sites where o	decommissioning is t	taking place as material used in electi	ricity is often the	targeted by criminals
	with	1	1	0	1	2 Low	-	Medium
	without	2	1	8	4	44 Medium	-	Medium
Theft of material from camps and along construction sites	degree to which impact can be reversed:	security person fence shall be shadecloth ca practicable. St In addition to	innel. The fence inspected on a n be attached t corage facilities o the above, all	shall be construct daily basis and any the fence and sin shall be lockable.	ed of high quality m y damages should be nilar to the fence, sh es entering or leaving	s shall be controlled through a lockab aterial bearing the SABS mark. Furthe fixed as soon as it is practicable. To hall be inspected daily and fixed as so g the construction camp shall be subj	ermore, the increase security, on as it is	
	degree of impact on irreplaceable resources:							
	Nature of impact:		Crops can be	lost during this pl	hase as the actvities	are almost as intense as those during	the construction	phase
	with	1	1	2	2	8 Low	-	Medium to high
	without	1	3	6	4	40 Medium	-	Medium to high
Loss of crops leading to economic losses	degree to which impact can be reversed:	Ensure that	decommssionir	g takes place whe	n the land is fallow a	and with no crops		
	degree of impact on irreplaceable resources:				N/A			
	Nature of impact:				Decommssioning of	an disturb activities on farms		
	with	1	1	2	2	8 Low	-	Medium to high
Impacts on farming activities such as sowing,	without	1	1	8	3	30 Low	-	Medium to high
harvesting, and fire	degree to which impact can be reversed:		truction can oc	cur before this hap	pens, in the case of	re is likely to be high activity on farm: harvesting, decommssioning can occ place after decommssioning		
	degree of impact on irreplaceable resources:				N/A			
	Nature of impact:	1	1 1			ith community members and farmers	<u> </u>	It do di una ta biab
	with without	1	1	6	3	4 Low 24 Low	-	Medium to high Medium to high
Damage to farm infrastructure e.g. irrigation equipment, gates, fences	degree to which impact can be reversed:				noved for the duration	on of construction; where this is not p cture	ossible, the	
	degree of impact on irreplaceable resources:				N/A			
	Nature of impact:					ur. Theft of game can be higher on far	ms where Rhino	T -
	with without	1	1	10	4 4	16 Low 48 Medium	-	Medium to high Medium to high
Security concerns as a esult of poaching of game, stock theft and crop theft	degree to which impact can be reversed:	 Where poss construction. 	ible, animals sh can also appoir	ould be fitted with	ŭ .	on placed in secure enclosures for the d vorkers and their equipment are insp		
	degree of impact on irreplaceable resources:		The	impact can be hig	h where endangered	d species such as Rhino occur		
	Nature of impact:	The mer	e presence of co	ontruction workers	in communities and	d especially on farms can lead to une	ase and people n	
	with without	2	1	8	3	8 Low 33 Medium	-	Medium to high Medium to high
Security as a result of the presence of workers on pfarms and communities	degree to which impact can be reversed:	Advice lande Upon arrivir respectively Ensure that logos and a ph Construction inspect these The landown on site. Landowners any suspicious	owners and con ag in a commun construction we notograph of the n workers should her should be a and community s behaviour on	munity members ity or farm, worker orkers are easily id e worker. Construct d also carry their lollowed to check the members should	entifiable by constru- cition vehicles must a dentity documents v e identification card: be provided with covell as the presence	of workers expected ommunity leader and farm owners or action uniform with logos and identification liso be marked with them and the land owner should as and note the names of construction contact details of Eskom and the local of what seem to be unauthorised	cation cards with be allowed to workers present	

	degree of impact on				N/A				
	irreplaceable resources:		A - d	-ttttAl				la la	
	Nature of impact: with	1	As decomms	2	ne dismatling of struc	tures, the safet	y of people and anima Low	is can be compr	Medium
Safety of community	without	1	1	6	2	16	Low	-	Medium
members/farm workers/animals	degree to which impact can be reversed:		construction s		are tenced off and sig	gnage, in local is	anguages, placed in a c	conspicuous	
workersyanimais	degree of impact on irreplaceable resources:				N/A				
				Cumulative	Impacts				
Potential Impact	Mitigation	Extent	Duration	Magnitude	Probability		gnificance	Status	Confidence
·	Nature of impact:	(E)	(D) It is highly likely	(M) v that theft of gam	(P) e and stock can occu		(E+D+M)*P) e can be higher on farn	(+ve or -ve)	is present
Poaching of game	with	2	3	4	3	27	Low		Medium to high
impacting on the loss of game and in turn affecting	without degree to which impact	5 Where possib	5 ole, animals sho	8 uld be fitted with	4 tracking devices or pl	72 aced in secure	High enlosures during the co	ontaructionand	High
the tourism industry of the							f the operational phas		
Municpality and that of the country at large	degree of impact on irreplaceable resources:		Th	ne impact will high	where endangered s	pecies such as F	Rhino occur		
	Nature of impact:	Tourists	s visit places to	relax and be imme	ersed in nature and t	he presence of	powerlines can therefo	ore spoil this exp	perience for them
Loss of a sense of place	with	1	2	2	2	10	Low	-	Medium to high
resulting in economic losses especially for	without degree to which impact	3	4	6	3 host mitration more	39	Medium gested measures would	d ho to uso a	Medium to high
tourism sector in turn	can be reversed:	Liase with	visuai impact sp		e with the least adve			u be to use a	
impact on the economic growth of the Makhado Local Municipality	degree of impact on irreplaceable resources:				N/A				
	Nature of impact:	An increase in	n the power su				to the Makhado Local N		l electricity is one of the
Increase in power supply and in the stability of the	with without	3	4	6	4	52 52	Medium	+	Medium
network. In turn numerous	degree to which impact	3	4	0	N/A	- 5Z	Medium	, †	Medium
existing developments such as lodges and other	can be reversed:				N/A				
tourist attractions can be improved.	degree of impact on irreplaceable resources:				N/A				
				No-Go Alte	rantive				
Potential Impact	Mitigation	Extent	Duration	Magnitude	Probability	Si	gnificance	Status	
						10	(F.D.44)*D)	t	Confidence
		(E)	(D)	(M)	(P)		(E+D+M)*P)	(+ve or -ve)	
Powerlines linking the	Nature of impact:	There is volta	age instability a Grid Network d	is the Polokwane C lue to being opera Bokmakirie (Nzhe	Customer Load Netwo	ork (CLN), including the lity. There is the der to strength	ling the Tabor and Spe erefore a need for a ne en the northern grid or	ncer power is the	ne weakest part of the
Powerlines linking the Taborsubstation to the new Bokmakirie (Nzhelele)	Nature of impact:	There is volta	age instability a Grid Network d	is the Polokwane C lue to being opera Bokmakirie (Nzhe	Customer Load Netwo ted beyond its reliabi lele) Substation in or	ork (CLN), including the lity. There is the der to strength	ling the Tabor and Spe erefore a need for a ne en the northern grid or	ncer power is the	ne weakest part of the werlines linking the
Taborsubstation to the new Bokmakirie (Nzhelele) Substation will not be	with without	There is volt: Northern Taborsubsta	age instability a Grid Network d	is the Polokwane C lue to being opera Bokmakirie (Nzhe sub	Customer Load Netwo ted beyond its reliabi lele) Substation in or	ork (CLN), including the lity. There is the der to strength	ding the Tabor and Spe erefore a need for a ne en the northern grid or 10kV infrastructure	ncer power is the	ne weakest part of the werlines linking the sion of the Bokmakirie
Taborsubstation to the new Bokmakirie (Nzhelele)	with	There is volt. Northern Taborsubsta	age instability a Grid Network d tion to the new	is the Polokwane C lue to being opera Bokmakirie (Nzhe sub	customer Load Netwo ted beyond its reliabi lele) Substation in or station to accommod	ork (CLN), including lity. There is the der to strengthe late the new 40	ding the Tabor and Spe erefore a need for a ne en the northern grid or lOkV infrastructure Low	encer power is the powerline Poor that the expan	ne weakest part of the werlines linking the sion of the Bokmakirie Medium to high
Taborsubstation to the new Bokmakirie (Nzhelele) Substation will not be	with without degree to which impact	There is volta Northern Taborsubstar 2 4	age instability a Grid Network d tion to the new	is the Polokwane C lue to being opera Bokmakirie (Nzhe sub	customer Load Netwo ted beyond its reliabi lele) Substation in or station to accommod	ork (CLN), including lity. There is the der to strengthe late the new 40	ding the Tabor and Spe erefore a need for a ne en the northern grid or lOkV infrastructure Low	encer power is the powerline Poor that the expan	ne weakest part of the werlines linking the sion of the Bokmakirie Medium to high
Taborsubstation to the new Bokmakirie (Nzhelele) Substation will not be	with without degree to which impact can be reversed: degree of impact on	There is volt. Northern Taborsubsta 2 4 • Construct th	age instability a Grid Network d tion to the new 1 5 e powerlines	ss the Polokwane C lue to being opera Bokmakirie (Nzhe sub 2 8	Customer Load Network ted beyond its reliabi lele) Substation in or station to accommod 1 3 N/A	ork (CLN), included lity. There is the der to strength late the new 40	ling the Tabor and Spe erefore a need for a ne en the northern grid or lokV infrastructure Low Medium	ncer power is the power is the powerline Power is the expansion of the exp	ne weakest part of the werlines linking the sion of the Bokmakirie Medium to high
Taborsubstation to the new Bokmakirie (Nzhelele) Substation will not be constructed.	with without degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact:	There is volt. Northern Taborsubsta 2 4 • Construct th The voltage is	age instability a Grid Network d tion to the new 1 5 e powerlines	s the Polokwane C lue to being opera Bokmakirie (Nzhe sub 2 8 8 able. This can ress and	customer Load Network ted beyond its reliabilities of the left of	ork (CLN), included lity. There is the der to strength late the new 40	ling the Tabor and Spe erefore a need for a ne en the northern grid or lokV infrastructure Low Medium oment being shut down vities on farms etc. Low Low	ncer power is the power is the powerline Power is the expansion of the exp	ne weakest part of the werlines linking the sion of the Bokmakirie Medium to high Medium to high cts such as loss of data
Taborsubstation to the new Bokmakirie (Nzhelele) Substation will not be constructed.	with without degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact:	There is volt. Northern Taborsubsta 2 4 • Construct th	age instability a Grid Network d tion to the new 1 5 e powerlines	s the Polokwane C lue to being opera Bokmakirie (Nzhe Sub 2 8 sable. This can resi and	customer Load Network ted beyond its reliabilities of the left of	ork (CLN), included ity. There is the der to strength date the new 40 s	ling the Tabor and Spe erefore a need for a ne en the northern grid or lokV infrastructure Low Medium ment being shut down vities on farms etc.	ncer power is the power is the powerline Power is the expansion of the exp	ne weakest part of the werlines linking the sion of the Bokmakirie Medium to high Medium to high Company to high Medium to high
Taborsubstation to the new Bokmakirie (Nzhelele) Substation will not be constructed.	with without degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact: with without	There is volt. Northern Taborsubsta 2 4 • Construct th The voltage is	age instability a Grid Network d tion to the new 1 5 e powerlines	s the Polokwane C lue to being opera Bokmakirie (Nzhe Sub 2 8 sable. This can resi and	customer Load Network ted beyond its reliabilities of the left of	ork (CLN), included ity. There is the der to strength date the new 40 s	ling the Tabor and Spe erefore a need for a ne en the northern grid or lokV infrastructure Low Medium oment being shut down vities on farms etc. Low Low	ncer power is the power is the powerline Power is the expansion of the exp	ne weakest part of the werlines linking the sion of the Bokmakirie Medium to high Medium to high cts such as loss of data
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Taborsubstation to the new Bokmakirie (Nzhelele) Substation will not be constructed.	with without degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources:	There is volt. Northern Taborsubsta 2 4 • Construct th The voltage is 1 3	age instability a Grid Network d tion to the new 1 5 e powerlines	ss the Polokwane C lue to being opera Bokmakirie (Nzhe sub 2 8 sable. This can resi and 2 8 Ensu	ustomer Load Networked beyond its reliabilele) Substation in or station to accommoded and the station of the st	ork (CLN), include lity. There is the der to strength late the new 40 5 51 electrical equipatake certain act 4 48 48 55 51 51 6 6 6 7 7 8 7 8 7 8 7 8 8	ling the Tabor and Spe erefore a need for a ne en the northern grid or lokV infrastructure Low Medium ment being shut down vities on farms etc. Low Medium	nncer power is ti w powerline Po r that the expan	me weakest part of the werlines linking the sion of the Bokmakirie Medium to high Medium to high cts such as loss of data Medium Medium Medium Medium
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No increase and assurance of electricity supply making it unavailable for agriculture, tourism and other industries as well as allowing for the undertaking of other activities that may not have been possible before. The absence of an	with without degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact: with without degree of impact on irreplaceable resources: Nature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact on irreplaceable resources:	There is volt. Northern Taborsubsta 2 4 • Construct th The voltage is 1 3 An unreliable mining 1 3 Increase elect	age instability a Grid Network d tion to the new 1 5 e powerlines e electricity supply sectors. A lack 1 5 tricity supply th	ss the Polokwane C lue to being opera Bokmakirie (Nzhe sub 2 8 sable. This can res and 2 8 Ensu ply can result in so of electricity there 2 8 grough measures si	testomer Load Networked beyond its reliabilities of the Substation in or station to accommode and the substation in the substa	electrical equitake certain act 4 48 48 48 48 49 40 40 40 40 40 40 40 40 40 40 40 40 40	ling the Tabor and Speerefore a need for a neen the northern grid on OkV infrastructure Low Medium Dement being shut down vities on farms etc. Low Medium These can be in the agith of the Makhado Multiple Seed power line and ensert erendering of service city available. Low Low High seed power line and ensert erendering of service city available.	ncer power is ti w powerline Po r that the expan n leading to effe - gricultural, touris inicipality may l - sure that these	me weakest part of the werlines linking the sion of the Bokmakirie Medium to high Medium to high cts such as loss of data Medium
No increase and assurance of electricity supply making it unavailable for agriculture, tourism and other industries as well as allowing for the undertaking of other activities that may not have been possible before. The absence of an	with without degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact: with without degree of impact con irreplaceable resources: Vature of impact: with without degree to which impact can be reversed: degree of impact on irreplaceable resources: Nature of impact on irreplaceable resources:	There is volt. Northern Taborsubsta 2 4 • Construct th The voltage is 1 3 An unreliable mining 1 3 Increase elect The backlog 2 3 The Makhadi	age instability a Grid Network d tion to the new 1 5 e powerlines e electricity supply sectors. A lack 1 5 tricity supply th	ss the Polokwane C lue to being opera Bokmakirie (Nzhe Sub 2 8 Rable. This can ress and 2 8 Ensu Ply can result in so of electricity there 2 8 Brough measures si 4 8 Pality must put me.	testomer Load Network ted beyond its reliabilities of the state of the	electrical equitake certain act 4 48 48 48 48 49 40 40 40 40 40 40 40 40 40 40 40 40 40	ling the Tabor and Spe erefore a need for a ne en the northern grid or OkV infrastructure Low Medium Dement being shut down vities on farms etc. Low Medium These can be in the ag th of the Makhado Mu Low High sed power line and en:	ncer power is ti w powerline Po r that the expan n leading to effe gricultural, touris inicipality may l - sure that these	me weakest part of the werlines linking the sion of the Bokmakirie Medium to high Medium to high cts such as loss of data Medium Medium Medium Medium m, manufacturing, and be compromised. Medium Medium Medium me use of electricity is

	Nature of impact:	In services suc	h as health fa	cilities, lack of electri	icity can result in lo	sses of lives					
Continuation of the	with	1	1	0	2	4	Low	-	Medium		
dequate provision of	without	3	5	10	4	72	High	-	Medium		
ectricity to critical	degree to which impact can be reversed:	The necessity	of electricity t	o critical services is i	imperative and the are avoided	proposed powerlin	ne can ensure that ad	verse impact	5		
facilities	degree of impact on irreplaceable resources:				N/A						
irreplaceable resource		A lack of electricity means that the lifestyles within this rural areas will continue. These include the cutting of trees to use the wood for heating and cooking. The cutting of trees has numerous adeverse impacts such as deforestation and the possible loss of protected species.									
		and co	8			,	·				
	with	1	1	2	2	8	Low	-	Medium		
Continuation of the navailability of electricity	without			2 8			· .	-	Medium Medium		
		1	1	8	2	8 64	Low	-			