Application for Rectification Form: NEMA Section 24G

destea
department of
economic, small business development,
tourism and environmental affairs
FREE STATE PROVINCE

DEPARTMENT OF ECONOMIC, SMALL BUSINESS DEVELOPMENT, TOURISM AND ENVIRONMENTAL AFFAIRS

Application form for the rectification of unlawful commencement or continuation of a listed activity in terms of S24G of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended:

2014

Kindly note that:

1. This application form must be completed for all applications in terms of S24G of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended.

2. It is the responsibility of the Applicant / Environmental Assessment Practitioner (EAP) to ascertain whether subsequent versions of the application form have been published or produced by the relevant competent authority.

3. The content of the application for rectification form comprises of:

   Section A: Application Information
   Section B: Activity Information
   Section C: Description of Receiving Environment
   Section D: Preliminary Impact Assessment
   Section E: Alternatives
   Section F: Appendices
   Section G: Declarations

4. An independent EAP must be appointed to complete the application form on behalf of the applicant; the declaration of independence must be completed by the independent EAP and submitted with the application.

5. The required information must be typed within the spaces provided. The sizes of the spaces provided are not necessarily indicative of the amount of information to be provided. The space provided extend as each space is filled with typing. A legible font type and size must be used when completing the form. The font size should not be smaller than 10pt (e.g. Arial 10).

6. The use of *"not applicable"* in the application form must be done with circumspection.

7. No faxed or e-mailed applications will be accepted. This application form must be submitted by hand or mailed to the relevant competent.

8. Unless protected by law, all information contained in and attached to this application form may become public information on receipt by the competent authority. Upon request, any interested and affected party must be provided with the information contained in and attached to this application form.

9. This application form constitutes the initiation of the S24G application process.

DEPARTMENTAL DETAILS

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SECTION A: APPLICATION INFORMATION

1. APPLICANT PROFILE INDEX

Cross out the appropriate box "☒".

1.1	The applicant is an individual		NO
1.2	The applicant is a company	YES	
1.3	The applicant is a state-owned enterprise or municipality		NO
1.4	Other (specify)		NO
1.5	There is more than one individual / company responsible for the unlawful commencement of listed activities		NO

Name of Project applicant:	Renergen Pty Ltd			
RSA Identity number:	8 1 1 0 2 3 0 4 4 2 0 8 8			
Contact person:	Mpumi Msimang			
Position in company	Process Engineer			
Registered Name of Company/ Closed Corporation	Renergen Pty Ltd			
Trading name (if any):	Tetra4			
Registration number	2014/195093/06			
Postal address:	1 Bompas Road			
	Dunkeld	Postal code:	2196	
Telephone:	(010) 045 6000	Cell:	082 821 6327.	
E-mail:	mpumi@renergen.co.za	Fax:		

Please Note: In instances where there is more than one individual / company responsible for the unlawful commencement of listed activities, please attach a list of with all contact details to the back of this page.

Environmental Assessment Practitioner (EAP):	Environmental Impact Management Services (Pty) Ltd		
Contact person:	John von Mayer		
Postal address:	PO Box 2083		
	Pinegowrie	Postal code:	2132
Telephone:	(011) 789 7170	Cell:	084 404 3673
E-mail:	john@eims.co.za	Fax:	(086) 571 9047
EAP Qualifications	BSc Hons (Environmental Science)		
EAP Registrations/Associations	Registered Professional Natural Scientist (SACNSP-#400336/11) EAPASA Registered Environmental Assessment Practitioner (2019/1247)		

Name of Landowner(s):	Please refer to attached list in Appendix H		
Contact person(s):			
Postal address:			
		Postal code:	
Telephone:		Cell:	
E-mail:		Fax:	

Please Note: In instances where there is more than one landowner, please attach a list of landowners with their contact details to the back of this page.

Municipality in whose area of jurisdiction the activity falls:	Matjhabeng Local Municipality (Ward 9 and 24)		
Contact person:	Mr Steyn Badenhorst		
Postal address:	PO Box 708, Welkom		
		Postal code:	9460
Telephone	057 391 3100	Cell:	-
E-mail:	mm@matjhabeng.co.za	Fax:	-

Please Note: In instances where there is more than one Municipality involved, please attach a list of Municipalities with their contact details to the back of this page.

Project title:	Proposed 33kV powerline for Tetra4 Operational Plant
Property location:	11km north of substation at Sibanye / Beatrix operation #4 shaft

Farm/Erf name & number (incl. portion):	Mond van Doornrivier 038 Palmietkuil 328 Kalkoenkrans 225 Annex Glen Ross 562 Ptn 1 Annex Glen Ross 562 Ptn 4					
SG21 Digit code:	F03300000000003800000 F03300000000032800006 F03300000000022500001 F03300000000056200001 F03300000000056200004					
Co-ordinates:	Latitude (S):			Longitude (E):		
Start	28º	011'	23.97"	26º	043'	24.50"
End	28º	007'	38.16"	26º	043'	21.56"

Please Note:
Where a large number of properties are involved (e.g. linear activities), attach a list of property descriptions to the back of this page. Indicate the position of the activity using the latitude and longitude of the centre point of the site for each alternative site. The co-ordinates must be in degrees, minutes and seconds. The minutes must be given to at least three decimals to ensure adequate accuracy. The EAP is required to contact the relevant competent authority with regards to the projection that must be used.

Street address:	N/A – linear development
Magisterial District or Town:	Lejweleputswa

Please Note: In instances where there is more than one town or district involved, please attach a list of towns or districts as well as complete physical address information for the entire area to the back of this page.

Closest City/Town:	Welkom	Distance	15km
Zoning of Property:	Agricultural		

Please Note: In instances where there is more than one zoning, please attach a map clearly indicating the zoning of the different portions.

Was a rezoning application required?		NO
Was a consent use application required?		NO

Please Note: Where planning approvals have been granted please attach the relevant approvals.

Owners consent:	Landowner consent is not required as the proposed development is a linear activity as per S39(2) of the Regulations.
	Letters of consent from all landowners or a detailed explanation by the applicant explaining why such letters of consent are not furnished must be attached to the application form. .

2. APPLICATION HISTORY

(Cross out the appropriate box "☒" and provide a description where required).

Has any national, provincial or local authority considered any development applications on the property previously?	Yes	

If so, please give a brief description of the type and/or nature of the application/s: (In instances where there were more than one application, please attach a list of these applications)

- Tetra4 EA received for the 33kV power line (ref EMB/11(1)/20/10)
- Tetra4 Water Use General Authorization (GA) received for power line sections
- Tetra4 Cluster 1 Pipeline Construction WUL (License No 08/C42K/CI/8861)
- Tetra4 Cluster 1 Pipeline Construction Amended WUL (License No 08/C42K/CI/8861)
- Tetra4 Exploration Drilling GA (WU16998)
- Tetra4 MDR1 well GA (WU22346)

Which authority considered the application(s):

- Tetra4 EA received for the 33kV power line (ref EMB/11(1)/20/10): DESTEA
- Tetra4 Water Use General Authorization (GA) received for power line sections: DHSWS
- Tetra4 Cluster 1 Pipeline Construction WUL (License No 08/C42K/CI/8861): DHSWS
- Tetra4 Cluster 1 Pipeline Construction Amended WUL (License No 08/C42K/CI/8861): DHSWS
- Tetra4 Exploration Drilling GA (WU16998): DHSWS

• Tetra4 MDR1 well GA (WU22346): DHSWS		
Has any one of the previous application/s on the property been approved or rejected? If so provide a list of the successful and unsuccessful application/s and the reasons for decision/s.	Yes	
All above applications have been approved. The reasons for the decisions are included in the licenses attached as Appendix E to this application form.		
Provide detail on the period of validity of decision(s) and expiry dates of the above applications/ permits etc.		
• Tetra4 EA received for the 33kV power line (ref EMB/11(1)/20/10): Expires 02/02/2024 • Tetra4 Water Use General Authorization (GA) received for power line sections: No expiry date • Tetra4 Cluster 1 Pipeline Construction WUL (License No 08/C42K/CI/8861): Expires 22/01/2049 • Tetra4 Cluster 1 Pipeline Construction Amended WUL (License No 08/C42K/CI/8861): Expires 22/01/2049 • Tetra4 Exploration Drilling GA (WU16998): No expiry date • Tetra4 MDR1 well GA (WU22346): No expiry date		

I hereby apply in terms of Section 24 G of the National Environmental Management Act (Act no 107 of 1998 as amended) for the rectification of the unlawful commencement or continuation of the listed activity(ies) in Section B of the application form:

Applicant (Full names)_____ Signature:_____

Place: _____ Date: _____

EAP (Full names) John von Mayer_____ Signature:_____

Place: Randburg_____ Date: 1 June 2022

SECTION B: ACTIVITY INFORMATION

1. ACTIVITIES APPLIED FOR:

Separate rectification applications are required for one development site where more than one listed activity has commenced and where these unlawfully commenced activities constitute offences in terms of different EIA regulations (refer to Table 1 & 2 of the S24G guideline).

Applicants and EAPS are strongly advised to discuss the merits of a combined application *(if deemed applicable)* with the relevant competent authority prior to the completion of this application form and submission thereof.

The relevant competent authority will use its discretion in deciding to allow one rectification application for more than 1 Section 24F(2(a) contravention on one development site.

All potential listed activities associated with the development must be indicated below. (See Annexures B, C, D and E). Only those activities for which the applicant applies will be considered.

The onus is on the applicant to ensure that all the applicable listed activities are included in the application.

Listed activities applied for. Identify the relevant listed activities applied for below:

ECA EIA Contraventions : Between 08 September 1997 end of day 09 May 2002	
Activities unlawfully commenced with on or after 08 September 1997 and before end 09 May 2002: EIA Regulations promulgated in terms of the ECA, Act No 73 of 1989, as amended	
Listed Activity(ies)	Details of Activity(ies)

ECA EIA Contraventions : Between 10 May 2002 and before end of day 02 July 2006	
Activities unlawfully commenced with on or after 10 May 2002 and before end 02 July 2006: EIA Regulations promulgated in terms of the ECA, Act No 73 of 1989, as amended	
Listed Activity(ies)	Details of Activity(ies)

NEMA EIA Contraventions : Between 03 July 2006 and before end of day 01 August 2010	
Activities unlawfully commenced with in terms of the EIA Regulations promulgated in terms of the NEMA, Act No 107 of 1998, as amended on or after 03 July 2006 and before end of day 01 August 2010	
Government Notice No. R386 Activity No(s):	Details of Activity(ies) requiring Basic Assessment
Government Notice No. R387 Activity No(s):	Details of Activity(ies) requiring a Scoping Report and EIA

NEMA EIA Contraventions : On or after 02 August 2010	
Activities unlawfully commenced with in terms of the EIA Regulations promulgated in terms of the NEMA, Act No 107 of 1998, as amended on or after 02 August 2010	
Government Notice No. R544 Activity No(s):	Details of Activity(ies) requiring Basic Assessment
Government Notice No. R545 Activity No(s):	Details of Activity(ies) requiring a Scoping Report and EIA
Government Notice No. R546 Activity No(s):	Details of Activity(ies) requiring S&EIr

NEMA EIA Contraventions : On or after 08 December 2014	
Activities unlawfully commenced with in terms of the EIA Regulations promulgated in terms of the NEMA, Act No 107 of 1998, as amended on or after 08 December 2014 as amended on 07 April 2017.	
Government Notice No. R983 Activity No(s):	Details of Activity(ies) requiring Basic Assessment
GN983, Activity 19	The infilling or depositing of any material of more than 10 cubic metres into, or the dredging, excavation, removal or moving of soil, sand, shells, shell grit, pebbles or rock of more than 10 cubic metres from a watercourse; but excluding where such infilling, depositing, dredging, excavation, removal or moving- (a) will occur behind a development setback; (b) is for maintenance purposes undertaken in accordance with a maintenance management plan; (c) falls within the ambit of activity 21 in this Notice, in which case that activity applies; (d) occurs within existing ports or harbours that will not increase the development footprint of the port or harbour; or (e) where such development is related to the development of a port or harbour, in which case activity 26 in Listing Notice 2 of 2014 applies.
Government Notice No. R984 Activity No(s):	Details of Activity(ies) requiring a Scoping Report and EIA
Government Notice No. R985 Activity No(s):	Details of Activity(ies) requiring S&EIr

2. ACTIVITY DESCRIPTION

(Cross out the appropriate box "☒" and provide a description where required).

(a) Is/was the project a new development or an upgrade of an existing development?	New	

(b) Clearly describe the activity and associated infrastructure commenced with, indicating what has been completed, what still has to be completed and applicable commencement dates.

Renergen Pty Ltd was granted approval for construction of a 11km long 33kV power line from Beatrix 4 Shaft to the Tetra4 operational area on 2 February 2021 EMB/11(1)/20/10. Approval was only obtained for Activity 11(1) of GN983. Construction of the power line commenced on 12 January 2022. On 14 March 2022 the Contractor was instructed by the Applicant to stop work in certain areas as it appeared that certain wetlands were located in these areas. A S24 Rectification application is therefore required as the GN983 Activity 19 was triggered, an activity not included in the authorization for the power line. The contractor had commenced with excavations, drilling and pole assembly in wetland areas prior to the work stoppage. No work has commenced after the instruction was issued on 14 March 2022.

To verify the presence and/ or absence of wetlands near the proposed power line, upon the instruction of the Applicant a survey was undertaken by a wetland specialist. The survey confirmed the temporary nature of the wetlands. Willem de Frey, a registered scientific professional in the fields of ecological – and botanical science (registration no: 400100/02) with more than 20 years' experience, completed a risk assessment, as per requirement of the wetland risk assessment matrix. Refer to Appendix F1 of this application form for the wetland assessment.

It was concluded that the proposed 33 kV power line towers, will have no influence on surface water movement associated with watercourses as the power line is located beyond 100 m of the watercourse channel, and will have insignificant influence on soil moisture within the soil profiles as the soil moisture is dependent mainly on the annual rainfall, which in mean and above mean annual rainfall events will result in temporary saturated and over saturated conditions. The presence of cultivated fields in the vicinity of certain observations sites supports this statement. It is also highly probable that the runoff from the tar road adjacent to these sites contribute to an increase in soil moisture in these areas, resulting in localised, temporary saturation of these areas.

Due to the availability of the additional information from the 2022 wetland specialist site visit including detailed wetland delineation information it is now possible to indicate how many pylons are located within the temporary hillslope seep wetland unit. A total of thirteen (13) pylon positions are located within the wetlands and their structure numbers are: 18, 24, 25, 26, 27, 39, 40, 41, 42, 43, 44, 45 and 73 (refer to map included in Appendix A). The risk assessment indicated a low-risk rating for the affected wetlands.

(c) Provide details of all components of the activity and attach diagrams (e.g. architectural drawings or perspectives, engineering drawings, process flow charts etc.).		
Buildings	[redacted]	NO
Provide brief description:		
Infrastructure (e.g. roads, power and water supply/ storage)	YES	[redacted]
Provide brief description:		
A 33kV powerline is being constructed in the road reserve alongside the R30 from where it follows a fence line on the property belonging to the Beatrix mine. A series of monopole pylons (each up to 24m high) will be constructed along the route that will carry the electrical power lines from a substation to the Beatrix mine property. These pylons are to be anchored into a concrete block / foundation and then anchored by cables for stability. Refer to Appendix B of this application for a diagram showing the powerline structure.		
Processing activities (e.g. manufacturing, storage, distribution)	[redacted]	NO
Provide brief description:		
Storage facilities for raw materials and products (e.g. volume and substances to be stored)		
Provide brief description	[redacted]	NO
Storage and treatment facilities for solid waste and effluent generated by the project	[redacted]	No
Provide brief description		
Other activities (e.g. water abstraction activities, crop planting activities)	[redacted]	No
Provide brief description		

3. ACTIVITY NEED AND DESIRABILITY

Describe the need and desirability of the activity:
The proposed new powerline will feed electrical power to the Tetra4 Operational Area for the requirements of its Liquid Natural Gas (LNG) and Liquid Helium Plant (LHe) plant which is nearing completion of construction. South Africa needs to become secure in its energy supplies and alternative sources of energy. The Tetra4 operations will take a natural gas (Methane) and produce a fuel which can replace the current oil based fuel in the trucking industry as well as offset the coal based electricity production, with the added benefit of having a much reduced carbon footprint. The Tetra4 Helium gas reserves will also provide a boost to global Helium supplies and this gas has numerous valuable economic uses. In order to operate the LNG/LHe Plant, the powerline from the existing Oryx substation is required to provide its electricity.
Indicate the benefits that the activity has/had for society in general and also indicate what benefits the activity has/had for the local communities where it is located:
The power is required to provide electricity to Tetra4's LNG/LHe plant. Tetra4 removes and processes natural gas resources into a fuel resource that will be able to be used in transportation, heating and electricity production. It is important to utilise this resource to its full potential in a world where existing fuel resources are fast become depleted. With the constant supply of electrical power via the new powerline this specific industry may at last be developed to its full potential. It will not only provide an alternative source of energy but also much needed employment opportunities and create more disposable funds into the direct economy. It will also create employment opportunities with the increase in disposable capital due to the higher employment in the area, local businesses will benefit from the resultant additional spending. The positive benefits of the development is far reaching for the area; the people; the economy and the country as a whole. As such, this powerline is a critical piece of infrastructure to unlock the potential of the Tetra4 LNG/LHe production operations.

4. PHYSICAL SIZE OF THE ACTIVITY

Indicate the physical spatial size of the activity as well as associated infrastructure (footprints):	**886**	***m²***
Indicate the area that has been transformed / cleared to allow for the activity as well as associated infrastructure	**126**	***m²***
Total area (sum of the footprint area and transformed area)	**886**	***m²***

No significant amount of vegetation clearing is required for the powerline. The total footprint area for all the pylons equates to 886.3m^2. Of this up to 170m^2 will occurs within identified wetland areas.

5. SITE ACCESS

Was there an existing access road?	YES
If no, what was the distance over which the new access road was built?	*m*
Describe the type of access road constructed: [indicate the position of the access road on the site plan]	
Existing access roads are in place.	

6. SITE PHOTOGRAPHS

Colour photographs of the site and its surroundings (taken of the site and from the site), both before (if available) and after the activity commenced, with a description of each photograph must be attached to this application. The vantage points from which the photographs were taken must be indicated on the site plan, or locality plan as applicable. If available, please also provide past and recent aerial photographs. It should be supplemented with additional photographs of relevant features on the site. Date of photographs must be included. Photographs must be attached under Appendix D to this form.

7. APPLICABLE LEGISLATION, POLICIES AND/OR GUIDELINES

Please list all legislation, policies and/or guidelines that were or are relevant to this activity.

LEGISLATION	ADMINISTERING AUTHORITY	TYPE Permit/ license/ authorization/comment	DATE (if already obtained):
National Environmental Management Act (Act 107 of 1998)	DESTEA	Environmental Authorization for power line EMB/11(1)/20/10 has been issued however one additional listed activity was not included and therefore forms part of this 24G rectification application.	2 February 2021
National Water Act (Act 36 of 1998)	DHSWS	Water Use License General Authorization for power line	25 November 2021
National Heritage Act (Act 25 of 1999)	SAHRA	The area is void of any heritage or cultural aspects. However should any bones or artefacts be uncovered during the excavation of the pylon foundations then the protocols to be followed as provided for in the EMPr.	No permit required at this stage

POLICY/ GUIDELINES	ADMINISTERING AUTHORITY
DWAF Best Practice Guidelines	DHSWS
National Dust Control Regulations	DESTEA

SECTION C: DESCRIPTION OF RECEIVING ENVIRONMENT

Site/Area Description

For linear activities (pipelines etc) as well as activities that cover very large sites, it may be necessary to complete copies of this Section for each part of the site that has a significantly different environment. In such cases please complete copies of Section C and indicate the area which is covered by each copy No. on the Site Plan.

Section C Copy No. (e.g. 1, 2, or 3):	**N/A - only one copy**

1. GRADIENT OF THE SITE

Indicate the general gradient of the site(s) (cross out the appropriate box).

Flat	Flatter than 1:10 X	1:10 – 1:5	Steeper than 1:5

2. LOCATION IN LANDSCAPE

Indicate the landform(s) that best describes the site (cross out ("☒") the appropriate box (es).

Ridgeline	Plateau	Side slope of hill/mountain	Closed valley	Open valley	Plain X	Undulating plain/low hills	Dune	Sea-front	Other

3. GROUNDWATER, SOIL AND GEOLOGICAL STABILITY OF THE SITE

Is the site(s) located on or near any of the following [cross out ("☒") the appropriate boxes]?

Shallow water table (less than 1.5m deep)		NO	
Seasonally wet soils (often close to water bodies)	YES		
Unstable rocky slopes or steep slopes with loose soil		NO	
Dispersive soils (soils that dissolve in water)		NO	
Soils with high clay content		NO	
Any other unstable soil or geological feature		NO	
An area sensitive to erosion			UNSURE

If any of the answers to the above are "YES" or "UNSURE", specialist input may be requested by the Department. Information in respect of the above will often be available at the planning Sections of local authorities. Where it exists, the 1:50 000 scale Regional Geotechnical Maps prepared by Geological Survey may also be used.

4. SURFACE WATER

Indicate the surface water present on and or adjacent to the site and alternative sites (cross out ("☒") the appropriate boxes)?

Perennial River		NO	
Non-Perennial River		NO	
Permanent Wetland		NO	
Seasonal Wetland	YES		
Artificial Wetland		NO	
Estuarine / Lagoonal wetland		NO	

5. VEGETATION AND GROUNDCOVER

5.1 VEGETATION / GROUNDCOVER (PRE-COMMENCEMENT)

Cross out ("☒") the block or describe (where required) the vegetation types / groundcover present on the site before commencement of the activity.

Indigenous Vegetation - good condition		Indigenous Vegetation with scattered aliens	X	Indigenous Vegetation with heavy alien infestation	
Describe the vegetation type above:		Describe the vegetation type above: The proposed powerline corresponds to the Grassland Biome and more particularly to the Dry and Mesic Highveld Grassland Bioregions as defined by Mucina & Rutherford (2006).		Describe the vegetation type above:	

	It comprises of two vegetation types namely (1) Vaal-Vet Sandy Grassland and the (2) Highveld Alluvial Vegetation	
Provide ecosystem status for above:	Provide ecosystem status for above: The Vaal-Vet Sandy Grassland is Endangered Highveld Alluvial Vegetation: This vegetation type is Least Concern	Provide Ecosystem status for above:
Indigenous Vegetation in an ecological corridor or along a soil boundary / interface	Veld dominated by alien species	Distinctive soil conditions (e.g. Sand over shale, quartz patches, limestone, alluvial deposits, termitaria etc.) – describe
Bare soil	Building or other structure	Sport field
Other (describe below)	Cultivated land	Paved surface

5.2. VEGETATION / GROUNDCOVER (POST-COMMENCEMENT)

Cross out ("☒") the block or describe (where required) the vegetation types / groundcover present on the site after commencement of the activity.

Indigenous Vegetation - good condition		Indigenous Vegetation with scattered aliens		Indigenous Vegetation with heavy alien infestation	
Describe the vegetation type above:		Describe the vegetation type above: The proposed powerline corresponds to the Grassland Biome and more particularly to the Dry and Mesic Highveld Grassland Bioregions as defined by Mucina & Rutherford (2006). It comprises of two vegetation types namely (1) Vaal-Vet Sandy Grassland and the (2) Highveld Alluvial Vegetation		Describe the vegetation type above:	
Provide ecosystem status for above:		Provide ecosystem status for above: The Vaal-Vet Sandy Grassland is Endangered Highveld Alluvial Vegetation: This vegetation type is Least Concern Considering that the alignment is mainly located adjacent to existing infrastructure (mainly roads) and will have smaller pylon footprint when compared to transmission lines, the impacts associated with the loss Highveld alluvial vegetation and Themeda dominated grassland habitat is regarded as minimal.		Provide Ecosystem status for above:	
Indigenous Vegetation in an ecological corridor or along a soil boundary / interface		Veld dominated by alien species		Distinctive soil conditions (e.g. Sand over shale, quartz patches, limestone, alluvial deposits, termitaria etc.) – describe	
Bare soil		Building or other structure		Sport field	
Other (describe below)		Cultivated land		Paved surface	

Please note: The Department may request specialist input/studies depending on the nature of the vegetation type / groundcover and impact(s) of the activity/ies. To assist with the identification of the vegetation type and ecosystem status consult http://bgis.sanbi.org or BGIShelp@sanbi.org. Information is also available on compact disc (cd) from the Biodiversity-GIS Unit, Ph (021) 799 8698. This information may be updated from time to time and it is the applicant/ EAP's responsibility to ensure that the latest version is used.

5.3 VEGETATION / GROUNDCOVER MANAGEMENT

Describe any mitigation/management measures that were adopted and the adequacy of these:

The pylons are placed in the road reserve where the construction of internal roads and the mass removal of vegetation is not required. Considering that the alignment is mainly located adjacent to existing infrastructure (mainly roads) and will have smaller pylon footprint when compared to transmission lines, the impacts associated with the loss Highveld alluvial vegetation and Themeda dominated grassland habitat is regarded as minimal. After construction and rehabilitation any damage will be reversed through regrowth of vegetation in disturbed areas. Soils removed from the excavation of the foundations and not used during the infill and compaction may not be left in a heap – it should be levelled out in order to allow the re-growth of vegetation where construction has taken place as recommended in the EMPr.

6. LAND USE CHARACTER OF SURROUNDING AREA (PRE-COMMENCEMENT)

Cross out ("☒") the block that reflects the past land uses and/or prominent features that occur/red within +/- 500m radius of the site and neighbouring properties if these are located beyond 500m of the site. Please note: The Department may request specialist input/studies depending on the nature of the land use character of the area and impact(s) of the activity/ies.

Untransformed area X	Low density residential	Medium density residential	High density residential	Informal residential
Retail	Commercial & warehousing	Light industrial	Medium industrial	Heavy industrial
Power station	Office/consulting room	Military or police base/station/compound	Casino/entertainment complex	Tourism & Hospitality facility
Open cast mine	Underground mine X	Spoil heap or slimes dam	Quarry, sand or borrow pit	Dam or reservoir
Hospital/medical center	School	Tertiary education facility	Church	Old age home
Sewage treatment plant	Train station or shunting yard	Railway line	Major road (4 lanes or more)	Airport
Harbour	Sport facilities	Golf course	Polo fields	Filling station
Landfill or waste treatment site	Plantation	Agriculture X	River, stream or wetland X	Nature conservation area
Mountain, koppie or ridge	Museum	Historical building	Graveyard	Archaeological site
Other land uses (describe):				

7. REGIONAL PLANNING CONTEXT

Is/was the activity permitted in terms of the property's existing land use rights? Please explain

Yes, the activity is a linear power line activity and as such the properties do not require rezoning.			
Is/was the activity in line with the following?			
o Provincial Spatial Development Framework (PSDF)	YES		Please explain
The development is in line with the following provincial growth and development pillars identified in the latest FreeState PSDF (2013): Pillar 1: Inclusive Economic Growth and Sustainable Job Creation. In addition the powerline will not have any significant negative impacts			

on any of the sectors relating to economic output for the province and will enable the applicant to make effective use of gas resources within the province.			
○ Urban edge / Edge of Built Environment for the area	[redacted]	NO	Please explain
The powerline is situated well outside of the urban edge or any built up areas.			
○ Integrated Development Plan of the Local Municipality	YES	[redacted]	Please explain
The project is in line with the 2020 – 2021 IDP for Matjhabeng Local Municipality as it will aid in addressing the lack of usage of alternative source of energy to fulfil our energy needs identified in the IDP, in this case natural gas. In addition there is job creation associated with the powerline project.			
○ Spatial Development Framework of the Local Municipality	YES	[redacted]	Please explain
There is currently no SDF for the Matjhabeng Local Municipality however it is in line with the current IDP and no impacts on land use are expected as a result of the powerline. In addition the powerline will be adjacent to existing linear infrastructure (mostly roads).			
○ Approved Structure Plan of the Municipality	YES	[redacted]	Please explain
There will be no significant impacts on land use or zoning as a result of the powerline and the powerline will be adjacent to existing linear infrastructure (mostly roads).			
○ Any other Plans	YES	NO	Please explain
No other applicable plans identified			

8 SOCIO-ECONOMIC CONTEXT

8.1 SOCIO-ECONOMIC CONTEXT (PRE-COMMENCEMENT)

Describe the pre-commencement social and economic characteristics of the community in order to provide baseline information.

The Matjhabeng Local Municipality has a total population of 406 461people, of which 87,7% are black African. The coloured population makes up 2,1%, and 9,6% are white. Of the people aged 20 and older, 38,8% have some form of secondary schooling and only 28,1% have matric. In the municipality, 4,6% of people have no schooling and 14% have some form of primary schooling. A total of99 650 people are employed while 13 290 are discouraged work-seekers. According to Census 2011, 58 524 people are unemployed making the unemployment rate stand at 37%. Of the youth aged 15–34, 39 442 are employed and 38 975 are unemployed. There are 123 195 households in the Matjhabeng Local Municipality, with an average household size of 3,1 persons per household. Of those households, 36% have access to piped water inside the yard whereas 54,8% have access to piped water inside their dwelling. Only 2% of the households do not have access to piped water (source: www.statssa.gov.za/)

8.2 SOCIO-ECONOMIC CONTEXT (POST-COMMENCEMENT)

Describe the post commencement social and economic characteristics of the community in order to determine any change.

Apart from job creation associated with the power line there will not be any significant changes to the social and economic characteristics of the community in the areas around the powerline as a result of the project.

CULTURAL/HISTORICAL FEATURES

Were there any signs or evidence (unearthed during construction) of culturally or historically significant elements including archaeological or palaeontological sites, on or in close proximity to the site?	[redacted]	NO

If YES, explain:		
If uncertain, the Department may request that specialist input be provided to establish whether such possibilities occurred on or close to the site.		
Briefly explain the findings of the specialist if one was already appointed:		
Were any buildings or structures older than 60 years affected in any way?		NO
Was it necessary to apply for a permit in terms of the National Heritage Resources Act, 1999 (Act 25 of 1999)?		NO
If yes, please submit or, make sure that the applicant or a specialist submit the necessary application to SAHRA or the relevant provincial heritage agency and attach proof thereof to this application.		

SECTION D: PRELIMINARY IMPACT ASSESSMENT

Please note, the impacts identified below refer to general impacts commonly associated with development activities. The list below is not exhaustive and may need to be supplemented. Where required, please append the information on any additional impacts to this application.

1. WASTE, EFFLUENT AND EMISSION MANAGEMENT

(a) Solid waste management

Did/does the activity produce any general waste (e.g. domestic-, commercial-, certain industrial waste, including building rubble also known as solid waste) during the construction phase and/or the operational phase?	YES	
If yes, briefly describe what type of waste was produced (i.e. green waste, building rubble, etc.) in which phase.		
A small amount of general waste will be produced during construction – 2 skip bins at most.		
What quantity was/is produced during the construction period?		12 m^3
What was/is the estimated quantity that will be produced per month during the operational phase?		0 m^3

Did/does the activity produce any hazardous waste (e.g. chemical, medical waste, infectious, nuclear etc.) during the construction and/or the operational phase?		NO
If yes, briefly describe what type of waste was produced (i.e. infectious waste, medical waste, etc.) in which phase.		
What quantity was/is produced during the construction period?	0	m^3
What was/is the estimated quantity that will be produced per month during the operational phase?	0	m^3

Where and how was/is waste treated / disposed of (describe each waste stream)?		
All construction related waste will be disposed of at a suitably licensed facility.		
Has the municipality or relevant authority confirmed that sufficient capacity exist for treating / disposing of the solid waste to be generated by this activity(ies)? If yes, provide written confirmation from municipality or relevant authority		NO - No significant amount of waste will be generated - at most 12m^3
Does/did the activity produce solid waste that was/will be treated and/or disposed of at another facility other than into a municipal waste stream?		NO
If yes, did/has this facility confirmed that sufficient capacity exist for treating / disposing of the solid waste to be generated by this activity(ies)? Provide written confirmation from the facility and provide the following particulars of the facility:	YES	NO

Did/does the facility have an operating license? (If yes, please attach a copy of the license.)	YES	NO
Facility name:		
Contact person:		
Postal address:		
	Postal code:	
Telephone:	Cell:	
E-mail:	Fax:	

(b) Effluent

Did/does the activity produce sewage and or any other effluent?		NO
No sewage or effluent will be produced by the powerline.		
What was/is the estimated quantity produced per month?	0	m^3
Was/is the effluent treated and/or disposed of in a municipal system?	YES	NO
If Yes, did/has the Municipality or relevant authority confirmed that sufficient **unallocated** capacity exist for treating / disposing of the sewage or any other effluent generated by this activity(ies)? Provide written confirmation from the Municipality or relevant authority.		
Was/is any effluent produced be treated and/or disposed of on site?	YES	NO
If yes, briefly describe the nature of the effluent and how it was/will be disposed of:		
Did/does the activity produce effluent that was/will be treated and/or disposed of at another facility?		NO
If yes, did/has this facility confirmed that sufficient capacity exist(ed) for treating / disposing of the liquid effluent generated by this activity(ies)? Provide written confirmation from the facility and provide the following particulars of the facility:	YES	NO
Does the facility have an operating license? (If yes, please attach a copy of the license.)	YES	NO
Facility name:		
Contact person:		
Postal address:		
	Postal code:	
Telephone:	Cell:	
E-mail:	Fax:	

Describe the measures that was/will be taken to ensure the optimal reuse or recycling of waste water, if any:
The activity will not use water.

(c) Emissions into the atmosphere

Did/does the activity produce emissions that will be disposed of into the atmosphere?		NO
If yes, did/does it require approval in terms of relevant legislation? If yes, attach a copy to this application	YES	NO
Describe the emissions in terms of type and concentration and how it was/will be treated/mitigated:		
The powerline will not create emissions, apart from limited emissions caused by construction equipment.		

(d) Describe any mitigation/management measures that were adopted and the adequacy of these:

No waste will be generated during the operational phase and only a limited amount of rubble and green waste will be generated during construction and disposed of at a licensed waste disposal site therefore no further mitigation is required.

2. WATER USE

(a) Please indicate the source(s) of water for the activity by crossing out ("☒") the appropriate box(es)

Municipal	Water Board	Groundwater	River, Stream, Dam or Lake	Other	The activity did/does not use water X

If water was/is extracted from a groundwater source, river, stream, dam, lake or any other natural feature, please indicate the volume that was/is extracted per month:	m^3

Please provide proof of assurance of water supply eg. letter of confirmation from Municipality/water user associations, yield of borehole etc.		
Did/does the activity require a water use permit / license from DWAF? If yes, attach a copy to this application	YES	NO
If yes, please submit the necessary application to Department of Water Affairs and Forestry and attach proof thereof to this application.		

(b) Describe any mitigation/management measures that were adopted and the adequacy of these:

N/A – the activity does not use water.

3. POWER SUPPLY

(a) Please indicate the source of power supply eg. Municipality / Eskom / Renewable energy source.

N/A – the activity does not require power.

Has the Municipality or relevant service provider confirmed that sufficient electricity capacity (i.e. generation, supply and transmission) exist for activity(ies)? If yes, provide written confirmation from Municipality or relevant service provider.	YES	NO

If power supply was/is not available, where was/is it sourced from?

(b) Describe any mitigation/management measures that were adopted and the adequacy of these:

N/A – the activity does not require power.

4. ENERGY EFFICIENCY

(a) Describe the design measures, if any, that have been taken to ensure that the activity is energy efficient:

N/A – the activity is for a powerline, no energy is required.

(b) Describe how alternative energy sources have been taken into account or been built into the design of the activity, if any:

N/A – the activity is for a powerline, no alternative energy source are therefore applicable.

5. NOISE IMPACTS

(a) Did/does the activity result in any noise impacts?		NO
If yes, please describe and indicate the measures implemented to mitigate and manage these impacts?		

Please note: The Department may request specialist input/studies depending on the nature of the land use character of the area and potential noise impact(s) of the activity/ies.

6. VISUAL IMPACTS

(a) Did/does the activity result in any visual impacts?	YES	
If yes, please describe and indicate the measures implemented to mitigate and manage these impacts?		

The project is located within a mining area that is already heavily disturbed from a visual perspective. Viewshed analyses were undertaken and the modelled visibility was limited to 2000m. General mitigation proposed by the visual specialist in the Basic Assessment for the approved power line included: • Colour / coating: Use of coating that is darker than galvanized steel • Placement: Placement of powerline alongside existing linear infrastructure • Erosion: Special attention given to erosion control • Vegetation Clearing: Vegetation clearing limited to cutting only – no earth moving equipment. • Access roads: Use existing access roads as far as possible. • Rehabilitation: Any temporary disturbance should be rehabilitated as soon as possible.

(b) Did/does the activity result in potential lighting impacts at night?		NO
If yes, please describe and indicate the measures implemented to mitigate and manage these impacts?		
(c) Were/are there any alternatives available to address this impact?	YES	
If yes, please describe these alternatives?		
Both route option A and B were assessed in the visual assessment (included in Appendix H). Both line route option A and B will have similar visual impacts therefore there is no preferred option from a visual perspective.		

Please note: The Department may request specialist input/studies depending on the nature of the land use character of the area and potential visual impact(s) of the activity/ies.

7. SOCIO-ECONOMIC IMPLICATIONS OF THE ACTIVITY

(a) What was/is the expected capital value of the activity on completion?	R 17 130 408	
(b) What was/is the expected yearly income or contribution to the economy that will be generated by or as a result of the activity?	R 11 900 000	
(c) Did/does the activity contribute to service infrastructure?		NO
(d) How many permanent new employment opportunities were created?	20 permanent opportunities will be created at the plant	
(e) What was/is the expected current value of the employment opportunities to date?	To date: R1 508 555 The expected value for the remainder of the project is approximately R800 000 – R850 000.	
(f) What percentage of this accrued to previously disadvantaged individuals?	93 %	

How was (is) this (to be) ensured and monitored (please explain):
Tetra4 has a recruitment policy to ensure employment equity and to comply with all BEE legislation. This is monitored by reporting monthly on the previously disadvantaged employees for analysis of the BEE figures.

8. PRELIMINARY IMPACT ASSESSMENT

Briefly describe the impacts (as appropriate), significance rating of impacts and significance rating of impacts after mitigation. This must include an assessment of the significance of all impacts. Please note: This is a preliminary impact statement. The Department may request specialist input/studies depending on the type and nature of the impact(s) of the activity/ies.

Possible Impacts	Significance rating of impacts after mitigation (Low, Medium, Medium-High, High, Very High):
Dust creation during excavation of foundations for the pylons	**Low (-)**
Veld fires may occur if cooking takes place in veld	**Low (-)**

Vegetation will be disturbed and damaged **Refer to Flora Assessment included in Appendix F4**	**Low (-)**
Construction of the powerline may further impact the flora of the area as well as introduce alien vegetation and removal of species of concern **Refer to Flora Assessment included in Appendix F4**	**Low (-)**
The new powerline and pylons will impact the visual scene of the area (visual intrusions by pylons, visual scars and erosion due to excavations) **Refer to Visual Impact Assessment included in Appendix F2**	**Low (-)**
The powerline poses a threat the birds flying in the area (electrocution, collision, loss of habitat) **Refer to Avifauna and Fauna Assessment included in Appendix F3**	**Medium (-)**
Socio-economic impacts including employment creation	**Low (+)**
Impact on Wetlands Refer to Wetland Assessment Report included in Appendix F1	**Low (-)**

Except for the impact on wetlands these impacts were already identified and assessed previously in the basic assessment for the approved powerline (DESTEA reference EMB/11(1)/20/10). An existing EMPr for the power line was also approved to address these impacts. Continuation of the activity will also be undertaken in line with the requirements of the 2017 EMPr for Tetra4's cluster one pipeline activities (PASA Ref : 12/ 4/1/7/2 /2). A wetland assessment / risk analysis was subsequently conducted to determine the effect on the wetlands (Appendix F1). The risk assessment indicated a low-risk rating for the affected wetlands.

SECTION E: ALTERNATIVES

As part of this report, consideration must be given to alternatives that are/may have been possible had an environmental impact assessment been undertaken prior to the commencement of the activity. Please provide a detailed description of the alternatives (whether location, technology or environmental) that were/are possible in terms of this application.

Two route deviations were identified for the proposed 33kV powerline and were both assessed in the previous basic assessment. These occur mainly on the southern part of the alignment (Option A and Option B). The alignment runs from the Tetra4 gas Plant southwards where it feed into the Oryx substation at the Oryx (Beatrix) gold mine. The entire length of the alignment varies between 8.6 km (Option A) and 8.8 km (Option B) in length, with Option A located west of a water treatment facility, while Option B is located to the east of the treatment works. Powerline Option A was authorized as this was preferred from an avifaunal and ecological perspective. Option A is still considered the preferred option for the powerline route. The impacts on the identified wetlands between Option A and option B will be identical.

SECTION F: APPENDICES

The following appendices must be attached where appropriate:

Appendix	**Cross out ("☒") the box if Appendix is attached**
Appendix A: Location map	X
Appendix B: Site plan(s)	X
Appendix C: Owner(s) consent(s)	Not required – linear activity
Appendix D: Photographs	X
Appendix E: Permit(s) / license(s) from any other organ of state including service letters from the municipality	X
Appendix F: Additional Impact Assessment Information	Appendix F1: Wetland Risk Assessment completed in April 2022 to address impacts on wetlands associated with the commencement of the powerline. Appendix F2: Visual Assessment completed for powerline BAR Appendix F3: Avifauna and fauna study completed for powerline BAR Appendix F4: Flora study completed for powerline BAR

Appendix G: Report on alternatives	Refer to information in Section E of this application regarding alternative routes previously assessed for the powerline
Appendix H: Any Other (describe)	X - List of Landowners

SECTION G: DECLARATIONS

G1: Declarations of the EAP

1. The Independent Environmental Assessment Practitioner

I, John von Mayer declare under oath that I –

a. act as the independent environmental assessment practitioner in this application ;
b. do not have and will not have any financial interest in the undertaking of the activity, other than remuneration for work performed in terms of the S24G of the National Environmental Management Act, read together with the relevant Environmental Impact Assessment Regulations;
c. do not have and will not have a vested interest in the proposed activity proceeding;
d. have no, and will not engage in, conflicting interests in the undertaking of the activity;
e. undertake to disclose, to the competent authority, any material information that has or may have the potential to influence the decision of the competent authority or the objectivity of any report, plan or document required in terms of the S24G of the National Environmental Management Act, read together with the Environmental Impact Assessment Regulations, 2014 as amended on 07 April 2017;
f. will ensure that all documents will contain all relevant facts in respect of the application & that all documentation is distributed or made available to interested and affected parties. I will ensure that participation by interested and affected parties is facilitated in such a manner that all interested and affected parties will be provided with a reasonable opportunity to participate and to provide comments on documents that are produced for th rectification application.
g. will ensure that the comments of all interested and affected parties are considered and recorded in reports that are submitted to the competent authority in respect of the application, provided that comments that are made by interested and affected parties in respect of a final report that will be submitted to the competent authority may be attached to the report without further amendment to the report;
h. will keep a register of all interested and affected parties that participated in a public participation process; and
i. will provide the competent authority with access to all information at my disposal regarding the application, whether such information is favourable to the applicant or not.

Signature of the environmental assessment practitioner:

Environmental Impact Management Services (Pty Ltd
Name of company:

31 May 2022
Date:

Signature of the Commissioner of Oaths:

2022-05-31
Date:

Designation:

Official stamp (below)

(HANDTEKENING) KOMMISSARIS VAN EDE
(SIGNATURE) COMMISSIONER OF OATHS

VOLLE VOORNAME EN VAN IN DRUKSKRIF
FULL FIRST NAMES AND SURNAME IN BLOCK LETTERS

BESIGHEIDSADRES (STRAATADRES)
BUSINESS ADDRESS (STREET ADDRESS)

SA POLISIEDIENS

G2: Declarations of the Applicant

1. The Applicant

I, _____ ,declare under oath that I -

a. am the applicant in this application;
b. appointed the environmental assessment practitioner as indicated under **G1** above to act as the independent environmental assessment practitioner for this application;
c. will provide the environmental assessment practitioner and the competent authority with access to all information at my disposal that is relevant to the application;
d. am responsible for complying with the directive or conditions of any environmental authorisation issued by the competent authority;
e. understand that I will be required to pay an administration fine in terms of S24G(2) of the Act and that a decision in this regard will only be forthcoming after payment of such a fine; and
f. hereby indemnify, the government of the Republic, the competent authority and all its officers, agents and employees, from any liability arising out of the content of any report, any procedure or any action for which the applicant or environmental assessment practitioner is responsible in terms of the Act.

Signature of the applicant:

Name of company:

Date:

Signature of the Commissioner of Oaths:

Date:

Designation:

Official stamp (below):