



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

APPLICATION FORM FOR AMENDMENT OF AN ENVIRONMENTAL AUTHORISATION

	(For official use only)
File Reference Number:	
NEAS Reference Number:	DEA/EIA/
Date Received:	

Application for authorisation in terms of the National Environmental Management Act, Act No. 107 of 1998, as amended and the Environmental Impact Assessment (EIA) Regulations, 2014, as amended (the Regulations)

PROJECT TITLE

The Proposed Karreebosch Wind Farm and associated infrastructure, Northern and Western Cape Provinces

Indicate if the **DRAFT** report accompanies the application

Yes

No – Final Report.

PRE-APPLICATION CONSULTATION

Was a pre-application meeting held	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
Date of the pre-application meeting	N/A			
Reference number of pre-application meeting held	N/A			
Was minutes compiled and submitted to the Department for approval	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>

A copy of the pre-application meeting minutes must be appended to this application as **APPENDIX 1**.

Kindly note the following:

- This form must be used to apply for the Amendment of an Environmental Authorisation where this Department is the Competent Authority. An amendment includes:
 - adding, substituting, removing or changing a condition or requirement of an Environmental Authorisation, or
 - updating or changing any details or correcting a technical error.
- This form is current as of 01 September 2018. It is the responsibility of the Applicant / Environmental Assessment Practitioner (EAP) to ascertain whether subsequent versions of the form have been published or produced by the Competent Authority. The latest available Departmental templates are available at <https://www.environment.gov.za/documents/forms>.
- An application fee is applicable (refer to **Section 2**). Proof of payment must accompany this application. The application will not be processed without proof of payment unless one of the exclusions provided for in the Fee Regulations is applicable AND such information in the exclusion section of this application form has been confirmed by this Department.
- A cover letter on your company letterhead indicating the nature of this application must be appended to this form i.e. new application for Environmental Authorisation, updated application for Environmental Authorisation.
- An electronic copy (in the form of a USB) of the signed application form must be submitted together with two hardcopies (one of which must contain the original signatures of both the Applicant and EAP).
- This form must be marked "**for Attention: Chief Director: Integrated Environmental Authorisations**" and submitted to the Department at the postal or physical addresses contained in this form.
- All documentation delivered to the physical address contained in this form must be delivered during the official Departmental Officer Hours which is visible on the Departmental gate.

8. All EIA related documents (includes application forms, reports or any EIA related submissions) that are faxed; emailed; delivered to Security or placed in the Departmental Tender Box will not be accepted, only hardcopy submissions are accepted.
9. The required information must be typed within the spaces provided in the form. The sizes of the spaces provided are not necessarily indicative of the amount of information to be provided. Spaces are provided in tabular format and will extend automatically when 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).
10. Where applicable black out the boxes that are not applicable in the form.
11. The use of the phrase "not applicable" in the form must be done with circumspection. Where it is used in respect of material information that is required by the Competent Authority for assessing the application, this may result in the rejection of the application as provided for in the Regulations.
12. Unless protected by law, all information contained in and attached to this application, will become public information on receipt by the Competent Authority. Upon request during any stage of the application process, the Applicant / EAP must provide any registered interested and affected party with the information contained in and attached to this application.
13. Should a specialist report or report on a specialised process be submitted at any stage for any part of this application, the terms of reference for such report and declaration of interest of the specialist must also be submitted.
14. Please note that this form must be copied to the relevant Provincial Environmental Department(s).
15. Certified copy/ies of the Environmental Authorisation and all subsequent Amendments thereto, if applicable must be attached to this application as **APPENDIX 2**. Should a certified copy/ies of the Environmental Authorisation and subsequent Amendments thereto not be available an original commissioned Affidavit/Affirmation under oath undertaken by the must be appended to this application form.
16. An application for Environmental Authorisation/Amendment lapses if the applicant fails to meet any of the timeframes prescribed in terms of the EIA Regulations, 2014, as amended.

Departmental Details

Postal address:

Department of Environmental Affairs
Attention: Chief Director: Integrated Environmental Authorisations
Private Bag X447
Pretoria
0001

Physical address:

Department of Environmental Affairs
Attention: Chief Director: Integrated Environmental Authorisations
Environment House
473 Steve Biko Road
Arcadia

Queries must be directed to the Directorate: Coordination, Strategic Planning and Support at:
Email: EIAAdmin@environment.gov.za

1. COMPETENT AUTHORITY

Identified Competent Authority to consider the application:

Department of Environmental Affairs

Reason(s) in terms of S24C of NEMA:

Government Notice 779 of 1 July 2016 identifies the Minister of Environmental Affairs as the Competent Authority for activities in terms of section 24(2)(a), which may not commence without environmental authorisation, and which relates to the Integrated Resources Plan (IRP) 2010 – 2030 and any updates thereto. As such, the amendment to the environmental authorisation for this application relates to the Karreebosch Wind Farm which is related to the IRP, and therefore the Minister is the Competent Authority in this instance.

2. FEES

Applicants are required to tick the appropriate box below to indicate that either proof of payment is attached or that, in the applicant's view, an exclusion applies. Proof of payment or a motivation for exclusions must be attached as **APPENDIX 3** of this application form.

Proof of payment	Yes
Exclusion applies	

An applicant is excluded from paying fees if:

- The activity is a community based project funded by a government grant; or
- The applicant is an organ of state.

TYPE OF EXCLUSION	Tick where applicable. Proper motivation must be attached to the application
The activity is a community based project funded by a government grant	
The applicant is an organ of state	

FEE AMOUNT	Fee
Application for an Amendment of an Environmental Authorisation	R2 000

- Reference number: **14/12/16/3/3/2/807**

Department of Environmental Affairs' banking details for the payment of application fees:

<p>Payment Enquiries: Email: eiafee@environment.gov.za</p> <p>Banking details: ABSA Bank Branch code: 632005 Account number: 1044 2400 72 Current account</p> <p>Reference number: Reference number to be provided in the specific format indicating centre point coordinates of site in decimal degrees to 5 or 6 decimal places: latitude/longitude eg. -33.918861/18.423300</p> <p>Status: Tax exempted</p>

3. GENERAL INFORMATION

Name of the Applicant:	Karreebosch Wind Farm (Pty) Ltd		
RSA Identity/ Passport Number:	Not applicable.		
Name of contact person for applicant (if other):	Mr. Khangelani Methuli Mbanjwa		
RSA Identity/ Passport Number:	811103 5403 085		
Responsible position, e.g. Director, CEO, etc.:	Director		
Company/ Trading name (if any):	Karreebosch Wind Farm (Pty) Ltd		
Company Registration Number:	2011/118863/07		
BBBEE status:	N/A		
Physical address:	5th Floor, 125 Buitengracht Street, Cape Town		
Postal address:	5th Floor, 125 Buitengracht Street, Cape Town		
Postal code:	8001	Cell:	083 697 9241
Telephone:	021 300 0616	Fax:	086 514 1735
E-mail:	methuli@g7energies.com		

Name of the landowner:	Please refer to the attached Landowners contact list (Appendix 4).		
Name of contact person for landowner (if other):			
Postal address:			
Postal code:		Cell:	
Telephone:		Fax:	
E-mail:			

Name of Person in control of the land:	Please refer to the attached Landowners contact list (Appendix 4).		
Name of contact person for person in control of the land:			
Postal address:			
Postal code:		Cell:	
Telephone:		Fax:	
E-mail:			

In instances where there is more than one landowner, please attach a list of those landowners with their contact details as **APPENDIX 4**.

Certified copy/ies of the Environmental Authorisation and subsequent Amendments thereto, if applicable must be attached to this application as **APPENDIX 2**. Should a certified copy/ies of the Environmental Authorisation and subsequent Amendments thereto not be available an original commissioned Affidavit/Affirmation under oath undertaken by the must be appended to this application form

Provincial Environmental Authority:	Please refer to the attached Local/Provincial Authority contact list (Appendix 6).		
Name of contact person:			
Postal address:			
Postal code:		Cell:	
Telephone:		Fax:	
E-mail:			

Local Municipality:	Please refer to the attached Local/Provincial Authority contact list (Appendix 6).		
Name of contact person in (Environmental Section):			
Postal address:			
Postal code:		Cell:	
Telephone:		Fax:	
E-mail:			

In instances where there is more than one Local/Provincial Authority involved, please attach a list of those Local/Provincial Authorities with their contact details as **APPENDIX 6**.

4. ENVIRONMENTAL ASSESSMENT PRACTITIONER (EAP) INFORMATION

Company of Environmental Assessment Practitioner:	Savannah Environmental (Pty) Ltd			
B-BBEE	Contribution level (indicate 1 to 8 or non-compliant)	2	Percentage Procurement recognition	125%
EAP name:	Shaun Taylor			
EAP Qualifications:	M. Sc. Aquatic Health			
Professional affiliation/registration:	None.			
Physical address:	First Floor, Block 2, 5 Woodlands Drive Office Park, Woodlands Drive, Woodmead, 2192			
Postal address:	P O Box 148, Sunninghill			
Postal code:	2157	Cell:	072 779 4899	
Telephone:	011 656 3237	Fax:	086 684 0547	
E-mail:	shaun@savannahsa.com			

The appointed EAP must meet the requirements of Regulation 13 of GN R982 of 04 December 2014, as amended.

If appointed, the declaration of independence of the EAP and undertaking under oath or affirmation that all the information submitted or to be submitted for the purposes of the application is true and correct must be submitted as **APPENDIX 5**.

5. DETAILS OF IMPLEMENTATION OF PREVIOUS ENVIRONMENTAL AUTHORISATION

Was the activity commenced with during the validity period of the environmental authorisation? If yes, please describe the implementation of the previous environmental authorisation to date:		NO
N/A		

6. AMENDMENTS APPLIED FOR AND RELATED INFORMATION

Please indicate which of the following is relevant:

6.1. The holder of an environmental authorisation may at any time apply to the relevant Competent Authority for the amendment of the authorisation if:

(a) there is a material change in the circumstances which existed at the time of the granting of the environmental authorisation;		NO
(b) there has been a change of ownership in the property and transfer of rights and obligations must be provided for; or		NO
(c) any detail contained in the environmental authorisation must be amended, added, substituted, corrected, removed or updated.	YES	

Describe the amendments that are being applied for:

The amendment being applied for is an amendment to the authorised wind turbine specifications including the hub height, rotor diameter, blade length, generation capacity for each proposed wind turbines, an increase in the height of the wind measuring mast specifications and lastly, amendment of the details of the holder of the environmental authorisation. Requested amendments are shown in **bold** text below.

1. Change in turbine specifications – Amendment to the authorised hub height, rotor diameter and generation capacity for the wind turbines

The request to change the turbine specifications is as follows (shown in **bold** font):

Component	Authorised turbine specification	Amended turbine specifications
Wind Turbine Generation Capacity	2MW to 3.3MW	A range between 2MW to up to and including 5.5MW
Rotor Diameter	140m	A range up to and including 160m
Hub Height	100m	A range up to and including 125m
Blade Length	70m	Dependent on rotor diameter (max 80m)

These changes in turbine specifications, which will not have an impact on the contracted capacity of the project (i.e. 147MW overall output capacity, 140MW contracted capacity), will fall within the originally authorised development area of the facility, and do not trigger any new listed activities. The approved turbine locations will remain in the same locations as authorised.

With respect to the above, the following specific amendments within the EA are requested:

It is requested that the above turbine specifications be amended and added into the project description on page 9 of the EA, so that the EA reads (shown in **bold** font):

- Up to 65 wind turbines (each with a generation capacity ranging between **2MW up to and including 5.5MW**) with a foundation of 25m in diameter and 4m in depth; and
- The hub height of each turbine will be a range up to and including **125m**, and the rotor diameter up to and including **160m**.

In addition to the above, it is requested that the relevant “Technical details of the proposed facility” be amended (shown in **bold** font) for the project description on page 10 of the EA, so that the EA reads:

Component	Authorised turbine description / dimensions	Amended turbine description / dimensions
Hub height	100m	A range up to and including 125m
Rotor diameter	140m	A range up to and including 160m

The approved positions of the proposed wind turbine layout consisting of the proposed 65 wind turbines will remain in the same locations as assessed and detailed in the original EIA Report.

2. Wind Measuring Mast Height Specifications

The wind measuring mast height is requested to be increased from 100m to a range up to **125m**. The height of the wind measuring mast is to be increased in line with the proposed amended hub height to take accurate wind measurements for the proposed development.

3. Change of Contact details of the Holder of the Environmental Authorisation

The request to change the contact details of the Holder of the EA is as follows (shown in **bold** font):

Authorised Details of the Holder of the Environmental Authorisation	Requested Amended Details of the Holder of the Environmental Authorisation
Mr. Khangelani Methuli Mbanjwa Karreebosch Wind Farm (Pty) Ltd 5th Floor, 125 Buitengracht Street Cape Town 8001	Dr. Kilian Hagemann Karreebosch Wind Farm (Pty) Ltd 5th Floor, 125 Buitengracht Street Cape Town 8001
Telephone Number: 021 300 0610 Cellphone Number: 083 697 9241 Fax Number: 086 514 1735 Email Address: methuli@g7energies.com	Telephone Number: 021 300 0610 Cellphone Number: 082 768 9830 Fax Number: 086 514 1735 Email Address: karreebosch@g7energies.com

Please provide the reasons and/or a motivation for the application for amendment:

1. Technical Motivation for the Amendment of Turbine Specifications

Wind turbine generators are constantly under development to increase the potential energy output capacity per wind turbine. The more energy one turbine can produce, the less turbines are required to generate the authorised 140MW. Following developments in technology after the issuing of the original EA, the applicant would like to finalise the site development plan on the basis of the wind monitoring results from the site as well as economic efficiency considerations. Therefore, the applicant is proposing to install a turbine technology on the site which is best suited to the conditions on the site. These amendments are proposed in order to increase the efficiency of the facility and consequently the economic competitiveness thereof, in turn reducing the electricity tariffs to be charged by the facility which would benefit electricity consumers at large. By potentially installing wind turbine generators with a bigger rotor diameter, hub height and energy generation capacity, it will increase the energy output per turbine thereby potentially reducing the number of turbines required to generate the required 140MW.

Note that there are no changes to the originally authorised footprint of the facility, with no turbine positions being required to be adjusted. The changes in the turbine specifications do not trigger any new listed activities. Should this proposed amendment request be authorised, the developer would in the near future finalise the site development plan, which will in all likelihood consist of fewer turbines than what is currently authorised. This final layout will be submitted to the DEA separately in the future as required in terms of Condition 16 of the EA (i.e. not part of this amendment), by means of submission of the Final Environmental Management Programme (EMPr) for approval by the DEA.

In addition to the above, the contact person and relevant contact details for Karreebosch Wind Farm (Pty) Ltd has changed. Therefore, the relevant details of the holder of the EA needs to be changed accordingly.

2. Wind Measuring Mast Height Specifications

The wind measuring mast height is requested to be increased from 100m to up to 125m. The height of the wind measuring mast is to be increased in line with the proposed amended hub height to take accurate wind measurements for the proposed development to inform the immediate planning and future operation efficiency of the proposed wind farm.

3. Motivation for the Amendment of Contact Details

The contact person and associated details of the holder of the EA are required to be changed due to a change in Director at Karreebosch Wind Farm (Pty) Ltd.

Should the amendment being requested result due to **6.1 (b)** above, you are required to furnish the Department with a written undertaking that the new holder of the environmental authorisation is willing and able to assume responsibility of the environmental authorisation issued. Provide a short motivation and explanation below:

Not applicable. The requested amendment is to amend the contact person and associated details for Karreebosch Wind Farm (Pty), and not for a change of ownership in the property and transfer of rights and obligations as per 6.1(b). Please refer to the attached written confirmation of change in directors for Karreebosch Wind Farm (Pty) Ltd (**Appendix 7**).

7. ENVIRONMENTAL IMPACTS

Describe any negative environmental impacts that may occur if the application for amendment is granted, amongst others information on any increases in air emissions, waste generation, discharges to water and impacts of the natural or cultural environment must be included.

Understanding the nature of the proposed amendments to the hub height, rotor diameter, the generation capacity of each wind turbine as well as the increase in height of the wind measuring masts, the potential for the change in the significance of the impact as assessed in the EIA for the following was required to be evaluated:

- » Impacts on bats
- » Avifaunal impacts
- » Visual impacts
- » Noise impacts

The potential for change in the significance of impacts listed above were assessed through specialist studies. The main findings of the specialist studies include the following:

- » Impacts on Bats

No additional impacts as a result of the proposed amendments to the turbine specifications are anticipated on bats. From a bat perspective, the proposed changes will result in no (zero) changes to the significance rating within the original bat impact assessment report that was used to inform the approved EIA. In addition to this, no new mitigation measures are required. The proposed amendments can therefore be supported provided that the recommended mitigation measures as per the original bat pre-construction monitoring report (dated 2014) are adhered to.

- » Avifaunal impacts

The new turbine specifications will reduce the risk of birds colliding with the turbines. In addition, the sound emanating from the turbines at the proposed new heights is not considered to have any impact on birds. Therefore, there are no negative aspects to the proposed amended wind turbine specifications. From an avifaunal perspective, the proposed changes will result in no (zero) changes to the significance rating within the original avifaunal impact assessment report that was used to inform the approved EIA. In addition to this, no new mitigation measures are required. It is therefore the opinion of the avifaunal specialist, that the changed specifications will reduce the (already very small) risk of avian collision mortality. From an avifaunal perspective, the change is considered positive and should be approved.

- » Visual impacts

The proposed increase in the dimensions of the wind turbine structures is not expected to significantly alter the influence of the proposed development on areas of higher viewer incidence (observers travelling along arterial or major secondary roads within the region) or potential sensitive visual receptors (residents of homesteads in close proximity to the WEF). The proposed increase in dimensions are consequently not expected to significantly influence the anticipated visual impact, as stated in the original VIA report (i.e. the visual impact is expected to occur regardless of the amendment). This statement relates specifically to the assessment of the visual impact within a 5km radius of the wind turbine structures (potentially high significance), but also generally applies to potentially moderate to low visual impacts at distances of up to 20km from the structures. Given this, there are no additional impacts, mitigation measures or alterations to the Environmental Management Programme (EMPr) suggested for the proposed increased turbine dimensions from a visual perspective, as the general appearance and functional design is not expected to change.

- » Noise impacts

From a noise perspective, the proposed changes will require no (zero) changes to the significance rating within the original noise impact assessment report that was used to inform the approved EIA. In addition to this, no new mitigation measures are required. Karreebosch Wind Farm with the current proposed amendments may therefore proceed.

The above findings are contained in the specialist studies attached to the Final Motivation Report to be submitted with

this updated application form. Importantly however, based on the specialist findings, it is concluded that the proposed amendments to the turbine and wind measuring mast specifications are not expected to result in an increase to the significance ratings for any of the identified impacts. Only in the case of the bat specialist assessment, there has been a potential decrease in potential risk levels. However, these variances were found not to influence the risk levels enough to change the significance in ratings in the impact assessment. Therefore, there will not be a change to the qualitative category (i.e. Low, Medium, High) in the original significance ratings. This holds true for all specialist assessments in that there will also be no change to the qualitative category (i.e. Low, Medium, High) in the original significance ratings with respect to the bats, avifaunal, visual and noise assessments. Moreover, there are no new impacts identified as a result of the proposed amendments. The amendment in itself furthermore, does not constitute a listed activity and will not require submission of a new application for EA, but rather the proposed amendment application to the current EA. The mitigation measures described in the original EIA document are adequate to manage the expected impacts for the proposed amendments and the project as a whole. No new mitigation measures are to be included in an updated EMPr. However, a final layout plan and Final EMPr will need to be submitted for final approval to the DEA once available, in line with Condition 16 and 18 respectively of the EA dated 29 January 2016.

Describe any negative environmental impacts that may occur if the application for amendment is not granted.

1. Change in turbine specifications – Amendment to the authorised hub height, rotor diameter and generation capacity for the wind turbines

By not granting the amendment request to amend the turbine specifications, the applicant would not be in a position to consider and optimise the site for the latest technology on the market. This could mean that the applicant would need to install more turbines with a lower energy output in order to generate the 140MW as opposed to installing less turbines of the newer turbine models with higher energy output. Therefore, the main implication would be that the applicant would be unable to install the most appropriate technology on the site, resulting in lost efficiency of the facility.

2. Change in Wind Measuring Mast Height Specifications

By not granting the amendment request to amend the wind measuring mast specifications, the applicant would not be in a position to consider and optimise the site for the latest technology on the market. This could mean that the applicant would need to install more turbines with a lower energy output in order to generate the 140MW as opposed to installing less turbines of the newer turbine models with higher energy output. Therefore, the main implication would be that the applicant would be unable to install the most appropriate technology on the site, resulting in lost efficiency of the facility.

3. Change in details of the holder of the Environmental Authorisation

By not granting the amendment request to amend the contact person and associated details of the holder of the EA due to a change in Director at Karreebosch Wind Farm (Pty) Ltd, this would result in the EA being registered to the incorrect person. The responsibility of the EA would therefore also rest on the incorrect contact person. Lastly, future correspondence would go to the incorrect contact person.

Describe any positive environmental impacts that may occur if the application for amendment is granted, amongst others information on any reduction in the ecological footprint, air emissions, waste generation and discharges to water must be included.

It is anticipated that turbine models with a higher energy output (i.e. bigger rotor and hub height), would translate to a reduced facility footprint in the future, as less turbines would be required to generate the required 140MW. This is the anticipated positive environmental impact. However, the applicant cannot at this stage reduce the layout without certainty that the newer turbine models with bigger rotor diameters, higher hub heights and increased energy output will be approved.

The following specialist studies were evaluated for the proposed amendment application:

- » Impacts on bats
- » Avifaunal impacts
- » Visual impacts
- » Noise impacts

The potential for positive impacts for the above specialist studies include the following:

» Impacts on Bats

The likely increased rotor swept height above ground will decrease the likelihood of impacts on bats due to the fact that there is higher bat activity at 10m than at 50m, as recorded through the pre-construction monitoring undertaken.

» Avifaunal impacts

Overall the new turbine specifications will reduce the risk of birds colliding with the turbines. The sound emanating from the turbines at the proposed new heights are not considered to have any impact on birds. Therefore, there are no negative aspects to the revised specifications.

No other positive impacts can be expected as a result of the proposed amendments.

8. AUTHORISATION FROM OTHER GOVERNMENT DEPARTMENTS

Are any permission, licenses or other authorisations required from any other departments before the requested amendments can be effected?		NO
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If yes, please complete the table below.

Name of department and contact person	Authorisation required	Authorisation applied for (Yes/ No)
N/A	N/A	N/A

9. RIGHTS OR INTERESTS OF OTHER PARTIES

In your opinion, will this proposed amendment adversely affect the rights and interests of other parties?		NO
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The rights and interests of other parties are not adversely affected in any way as:

1. The amendment to the Environmental Authorisation will not result in impacts on any additional interested and affected parties.
2. The project is to be developed on the same farm portions as originally authorised, all of which, are privately owned.
3. The proposed amendment does not trigger any additional listed activities.

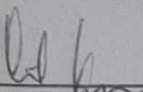
NOTE: The Department is entitled to request further information if it believes it is necessary for the consideration of the application. If the application is for a substantive amendment or if the rights or interests of other parties are likely to be adversely affected, the Department will instruct the applicant to conduct a public participation process and to conduct any investigations and assessments that it deems necessary.

10. LIST OF APPENDICES

		SUBMITTED	
			NO
APPENDIX 1	Copy of the pre-application meeting minutes		
APPENDIX 2	Certified copy/ies of the Environmental Authorisation and all subsequent Amendments thereto or original commissioned Affidavit/Affirmation under oath	YES	
APPENDIX 3	Proof of Payment / Motivation for exclusion	YES	
APPENDIX 4	List of land owners (with contact details)	YES	
APPENDIX 5	Declaration of independence of the EAP and undertaking under oath or affirmation, if appointed	YES	
APPENDIX 6	List of Local/Provincial Authority involved.	YES	
APPENDIX 7	Written confirmation of change in director's letter	YES	

11. DECLARATION

I, Kilian Hagemann, declare that I will comply with all my legal obligations in terms of this application and provide accurate information to everyone concerned in respect to this application.


Signature of the Applicant:

Karreebosch Wind Farm (Pty) Ltd
Name of Company or Organisation:

2 October 2018
Date:

**APPENDIX 1
COPY OF THE PRE-APPLICATION MEETING MINUTES**

**APPENDIX 2
CERTIFIED COPY/IES OF THE ENVIRONMENTAL AUTHORISATION AND ALL SUBSEQUENT AMENDMENTS
THERE TO OR ORIGINAL COMMISSIONED AFFIDAVIT/AFFIRMATION UNDER OATH**



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

Private Bag X 447 · PRETORIA · 0001 · Environment House · 473 Steve Biko Road · Arcadia · PRETORIA
Tel (+ 27 12) 399 9372

DEA Reference: 14/12/16/3/3/2/807

Enquiries: Mr Herman Alberts

Telephone: (012) 399 9371 E-mail: HAlberts@environment.gov.za

Mr Khangelani Methuli Mbanjwa
Karreebosch Wind Farm (Pty) Ltd
5th Floor, 125 Buitengracht Street
CAPE TOWN
8001

Telephone number: (021) 300 0610
Email Address: methuli@g7energies.com

PER EMAIL / MAIL

Dear Mr Mbanjwa

APPLICATION FOR ENVIRONMENTAL AUTHORISATION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, 1998: GN R. 983/984 AND 985 FOR THE PROPOSED KARREEBOSCH WIND FARM (ROGGEVELD PHASE 2) AND ITS ASSOCIATED INFRASTRUCTURE WITHIN THE KAROO HOOGLAND LOCAL MUNICIPALITY AND THE LAINGSBURG LOCAL MUNICIPALITY IN THE NORTHERN AND WESTERN CAPE PROVINCES

With reference to the above application, please be advised that the Department has decided to grant authorisation. The environmental authorisation (EA) and reasons for the decision are attached herewith.

In terms of regulation 4(2) of the Environmental Impact Assessment Regulations, 2014 (the Regulations), you are instructed to notify all registered interested and affected parties, in writing and within 14 (fourteen) days of the date of the EA, of the Department's decision in respect of your application as well as the provisions regarding the submission of appeals that are contained in the Regulations.

Your attention is drawn to Chapter 2 of Government Notice No. R.993, which prescribes the appeal procedure to be followed. An appellant must submit an appeal to the appeal administrator, and a copy of the appeal to the applicant, any registered interested and affected party and any organ of state with interest in the matter within 20 days from the date that the notification of the decision was sent to the registered interested and affected parties by the applicant.

By post: Private Bag X447,
Pretoria, 0001; or

By hand: Environment House
473 Steve Biko Road,
Arcadia,
Pretoria, 0083

I the undersigned hereby certify that this is a true copy of the original exhibited to me and that there is no indication that the original document has been altered by unauthorised persons

 2018/06/28

JODI VON BUCHENRODER
Commissioner of Oaths (RSA) Chartered Accountant (SA)
Membership No. 20027061
14th Floor Pier Place, Heerengracht Street
Foreshore, Cape Town 8001
Contact No: +27 21 418 3940

If the applicant wishes to lodge an appeal, it must also serve a copy of the notice of intention to appeal on all registered interested and affected parties as well as a notice indicating where, and for what period, the appeal submission will be available for inspection, should you intend to submit an appeal.

Appeals must be submitted in writing to:

Mr Z Hassam, Director: Appeals and Legal Review, of this Department at the above mentioned addresses. Mr Hassam can also be contacted at:

Tel: (012) 399 9356

Email: Appealsdirector@environment.gov.za

Please note that in terms of section 43(7) of the National Environmental Management Act, 1998, an appeal under section 43 of that Act will suspend the environmental authorisation or any provision or condition attached thereto. In the instance where an appeal is lodged, you may not commence with the activity until such time that the appeal is finalised.

For guidance on appeals submitted to the Minister in terms of NEMA and the SEMAs, please find a copy of the guideline on the administration of appeals on the Department's website:
(https://www.environment.gov.za/documents/forms#legal_authorisations).

Kindly include a copy of this document with the letter of notification to interested and affected parties.

Yours faithfully




Mr Sabelo Malaza
Chief Director: Integrated Environmental Authorisations
Department of Environmental Affairs

Date: 29/01/2016

cc:	Ms Karen Jodas	Savannah Environmental (Pty) Ltd	Email: karen@savannahsa.com
	Mr P Williams	Laingsburg Local Municipality	Email: pawilliams@laingsburg.gov.za
	Ms A Yaphi	NC: DENC	Email: ayaphi@ncpg.gov.za

I the undersigned hereby certify that this is a true copy of the original exhibited to me and that there is no indication that the original document has been altered by unauthorised persons

 2018/06/28

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environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

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Jodi von Buchenroder 2018/06/28
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Environmental Authorisation

In terms of regulation 25 of the Environmental Impact Assessment Regulations, 2014

The proposed Karreebosch Wind Farm (Roggeveld Phase 2) and its associated infrastructure within the Karoo Hoogland Local Municipality and the Laingsburg Local Municipality in the Northern and Western Cape Provinces


Central Karoo District Municipality and Namakwa District Municipality

Authorisation register number:	<i>14/12/16/3/3/2/807</i>
Last amended:	<i>First issue</i>
Holder of authorisation:	<i>Karreebosch Wind Farm (Pty) Ltd</i>
Location of activity:	<i>Farm Appelsfontein 201 Remainder of Ekkraal 199 Portion 1 of Ekkraal 199 Portion 2 of Ekkraal 199 Remainder of Karreebosch 200 Portion 1 of Karreekloof 196 Remainder of Klipbanksfontein 198 Portion 1 of Klipbanksfontein 198 Farm Kranskraal 189 Farm Oude Huis 195 Farm Rietfontein 197</i>

	<i>Farm Roode Wal 187</i> <i>Portion 2 of Standvastigheid 210</i> <i>Remainder of Wilgebosch Rivier 188</i> <i>Farm Aprils Kraal 105</i> <i>Remainder of Bon Espirange 73</i> <i>Portion 1 of Bon Espirange 73</i>
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This authorisation does not negate the holder of the authorisation's responsibility to comply with any other statutory requirements that may be applicable to the undertaking of the activity.

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Decision

The Department is satisfied, on the basis of information available to it and subject to compliance with the conditions of this environmental authorisation, that the applicant should be authorised to undertake the activities specified below.

Non-compliance with a condition of this environmental authorisation may result in criminal prosecution or other actions provided for in the National Environmental Management Act, 1998 and the EIA regulations.

Details regarding the basis on which the Department reached this decision are set out in Annexure 1.

Activities authorised

By virtue of the powers conferred on it by the National Environmental Management Act, 1998 (Act No.107 of 1998) and the Environmental Impact Assessment Regulations, 2014 the Department hereby authorises –

KARREEBOSCH WIND FARM (PTY) LTD

(hereafter referred to as the **holder of the authorisation**)

with the following contact details –

Mr Khangelani Methuli Mbanjwa
5th Floor, 125 Buitengracht Street
CAPE TOWN
8001

Telephone Number: (021) 300 0610
Cell phone Number: (083) 697 9241
Fax Number: (086) 514 1735
Email Address: methuli@g7energies.com

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
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to undertake the following activities (hereafter referred to as "the activity") indicated in Listing Notice 1, 2 and 3 (GN R. 983, 984 and 985):


Activity number	Activity description
<p><u>GN R. 983: Activity 11(i)</u> <i>"The development of facilities or infrastructure for the transmission and distribution of electricity (i) outside urban areas or industrial complexes with a capacity of more than 33 but less than 275 kilovolts"</i></p>	<p>The project will entail construction of substations and power line/s with a capacity of <275kV (outside an urban area).</p>
<p><u>GN R. 983: Activity 12 (xii)</u> <i>"The development of – (xii) infrastructure or structures with a physical footprint of 100 square metres or more; where such development occurs - if no development setback exists, within 32 metres of a watercourse, measured from the edge of a watercourse"</i></p>	<p>The wind energy facility will include the construction of infrastructure within 32m of a watercourse.</p>
<p><u>GN R. 983: Activity 19(i):</u> <i>"The infilling or depositing of any material of more than 5 cubic metres into, or the dredging, excavation, removal or moving of soil, sand, shells, shell grit, pebbles or rock of more than 5 cubic metres from- (i) a watercourse"</i></p>	<p>Some water crossings of access roads may require earth moving of more than 5 cubic metres in order to install culverts appropriate both size of watercourse and minimum road specifications for heavy vehicles.</p>
<p><u>GN R. 983: Activity 24(ii):</u> <i>"The development of (ii) a road with a reserve wider than 13,5 meters, or where no reserve exists where the road is wider than 8 metres"</i></p>	<p>The wind energy facility will require access roads with parts wider than 8m in width, and up to 12m in width, to be constructed outside urban areas.</p>
<p><u>GN R. 983: Activity 28(ii):</u> <i>Residential, mixed, retail, commercial, industrial or institutional developments where such land was used for agriculture or afforestation on or 01 April 1998 and where such development: (ii) will occur outside an urban area, where the total</i></p>	<p>The development footprint for the proposed wind farm will cover an area greater than 1 hectare on land currently used for agriculture.</p>

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<p><i>land to be developed is bigger than 1 ha.</i></p>	
<p><u>GN R. 984: Activity 1:</u> <i>"The development of facilities or infrastructure for the generation of electricity from a renewable resource where the electricity output is 20 megawatts or more"</i></p>	<p>The wind energy facility will have a contracted capacity of 140MW.</p>
<p><u>GN R. 984: Activity 15:</u> <i>"The clearance of an area of 20 hectares or more of indigenous vegetation"</i></p>	<p>The development footprint for the proposed wind energy facility will cover an area greater than 20 hectares.</p>
<p><u>GN R. 985: Activity 4 (a)(ii)(bb), (ee) and 4(f) (i):</u> <i>"The development of a road wider than 4 metres with a reserve less than 13,5 metres.</i> (a) In Northern Cape province: <i>(ii) Outside urban areas, in:</i> <i>(bb) National Protected Area Expansion Strategy Focus areas;</i> <i>(ee) Critical biodiversity areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans</i> (f) In Western Cape Province: <i>(i) Areas outside urban areas</i> <i>(aa) Areas containing indigenous"</i></p>	<p>Roads wider than 4 m will be constructed. The site is located outside urban areas in a National Protected Area Expansion Strategy Focus Area and Critical Biodiversity Area in terms of the Namakwa District Biodiversity Sector Plan (Desment & Marsh 2008).</p> <p>I the undersigned hereby certify that this is a true copy of the original exhibited to me and that there is no indication that the original document has been altered by unauthorised persons</p> <p><i>JZ</i> 2018/06/28</p> <p>JODI VON BUCHENRODER Commissioner of Oaths (RSA) Chartered Accountant (SA) Membership No. 20027061 14th Floor Pier Place, Heerengracht Street Foreshore, Cape Town 8001 Contact No: +27 21 418 3940</p>
<p><u>GN R. 985: Activity 12 (a)(ii), and 12(d) (ii):</u> <i>"The clearance of an area of 300 square metres or more of indigenous vegetation</i> (a) In Western Cape province: <i>(ii) Within critical biodiversity areas identified in bioregional management plan.</i> (d) In Northern Cape: <i>(ii) Within critical biodiversity areas identified in bioregional plans"</i></p>	<p>An area of 300 square metres or more of indigenous vegetation cover will be cleared. The site is located within a Critical Biodiversity Area identified in terms of the Namakwa District Biodiversity Sector Plan (Desment & Marsh 2008).</p>
<p><u>GN R. 985: Activity 14 (xii), a(ii) (bb) (ff) and 14 (f) (i)</u> <u>(bb) (ff):</u> <i>"The development of-</i></p>	<p>Buildings such as the workshop and site office</p>

<p>(xii) Infrastructure or structures with a physical footprint of 10 square metres or more;</p> <p>(a) if no development setback has been adopted, within 32 metres of a watercourse, measured from the edge of a watercourse;</p> <p>(a) In Northern Cape:</p> <p>(ii) Outside urban areas, in:</p> <p>(bb) National Protected Area Expansion Strategy Focus areas;</p> <p>(ff) Critical biodiversity areas or ecosystem service areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans;</p> <p>(f) In Western Cape:</p> <p>(i) Outside urban areas, in:</p> <p>(bb) National Protected Area Expansion Strategy Focus areas; Critical biodiversity areas or ecosystem service areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans”</p>	<p>and/or infrastructure larger than 10m² or 10m² within 32m of a watercourse will be required to be built. The site is located outside urban areas in a National Protected Area Expansion Strategy Focus Area and Critical Biodiversity Area identified in terms of the Namakwa District Biodiversity Sector Plan (Desment & Marsh 2008).</p> <p>I the undersigned hereby certify that this is a true copy of the original exhibited to me and that there is no indication that the original document has been altered by unauthorised persons</p> <p> 2018/06/28</p> <p>JODI VON BUCHENRODER Commissioner of Oaths (RSA) Chartered Accountant (SA) Membership No. 20027061 14th Floor Pier Place, Heerengracht Street Foreshore, Cape Town 8001 Contact No: +27 21 418 3940</p>
<p><u>GN R. 985 Activity 18 (a) (ii) (bb) (ee) and 18 (f) (i)</u></p> <p><u>(aa):</u></p> <p>“The widening of a road by more than 4 metres, or the lengthening of a road by more than 1 kilometre.</p> <p>(a) In Northern Cape provinces:</p> <p>(ii) Outside urban areas, in:</p> <p>(bb) National Protected Area Expansion Strategy Focus areas;</p> <p>(ee) Critical biodiversity areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans;</p> <p>(ii) Areas on the watercourse side of the development setback line or within 100 metres from the edge of a watercourse where no such setback line has been</p>	<p>Internal access roads will be up to 12m wide. In many areas of the site the existing roads are only ~3 m wide, therefore some of these roads will be widened by up to 9m.</p> <p>In two areas on site the existing access road will be lengthened, in both cases the distance of each is less than 2km of new road.</p> <p>The wind energy facility will require access roads to be upgraded, which will include the widening of the roads as well and lengthening of roads in some areas.</p>

<p>determined;</p> <p>(f) In Western Cape provinces:</p> <p>(i) All areas outside urban areas, Areas containing indigenous vegetation”</p>	<p>The site is located outside urban areas in a National Protected Area Expansion Strategy Focus Area and Critical Biodiversity Area in terms of the Namakwa District Biodiversity Sector Plan (Desment & Marsh 2008).</p>
<p><u>GN R.985: Activity 23(xii) (a) (ii) (ee) and 23 (xii) (g) (j)</u></p> <p>(bb) (ff):</p> <p>The expansion of –</p> <p>(xii) infrastructure or structures where the physical footprint is expanded by 10 square metres or more; where such development occurs –</p> <p>(a) if no development setback has been adopted, within 32 metres of a watercourse measured from the edge of a watercourse;</p> <p>(a) In Northern Cape:</p> <p>(ii) Outside urban areas, in:</p> <p>(bb) National Protected Area Expansion Strategy Focus areas;</p> <p>(ee) Critical biodiversity areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans;</p> <p>(g) In Western Cape:</p> <p>(i) Outside urban areas, in:</p> <p>(bb) National Protected Area Expansion Strategy Focus areas; Critical biodiversity areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans;</p>	<p>The project may require the expansion of roads (i.e. infrastructure) within 32m of a watercourse.</p>

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as described in the Environmental Impact Assessment (EIAr) dated September 2015 at:

21 SG Code:

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C	O	7	2	0	0	0	0	0	0	0	0	0	1	8	7	0	0	0	0	0
C	O	7	2	0	0	0	0	0	0	0	0	0	1	8	8	0	0	0	0	0
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C	O	7	2	0	0	0	0	0	0	0	0	0	1	9	6	0	0	0	0	1
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C	O	7	2	0	0	0	0	0	0	0	0	0	1	9	8	0	0	0	0	0
C	O	7	2	0	0	0	0	0	0	0	0	0	1	9	8	0	0	0	0	1
C	O	7	2	0	0	0	0	0	0	0	0	0	1	9	9	0	0	0	0	0
C	O	7	2	0	0	0	0	0	0	0	0	0	1	9	9	0	0	0	0	1
C	O	7	2	0	0	0	0	0	0	0	0	0	1	9	9	0	0	0	0	2
C	O	7	2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
C	O	7	2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	1
C	O	7	2	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0
C	O	7	2	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	2

Site Coordinates:

Wind Farm boundary corners	Latitude	Longitude
1	32° 43' 10.25" S	20° 30' 56.22" E
2	32° 43' 54.98" S	20° 32' 23.96" E
3	32° 43' 58.50" S	20° 33' 42.64" E
4	32° 45' 49.76" S	20° 32' 27.91" E
5	32° 48' 47.44" S	20° 36' 57.76" E
6	32° 50' 9.78" S	20° 36' 40.16" E
7	32° 51' 34.59" S	20° 35' 52.85" E
8	32° 52' 51.47" S	20° 33' 40.51" E
9	32° 55' 34.23" S	20° 35' 31.86" E
10	32° 55' 51.13" S	20° 35' 29.79" E
11	32° 55' 51.48" S	20° 35' 52.83" E
12	32° 56' 12.14" S	20° 35' 50.58" E
13	32° 56' 10.49" S	20° 35' 27.30" E
14	32° 56' 34.77" S	20° 35' 24.24" E
15	32° 57' 23.11" S	20° 34' 19.95" E

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[Signature] 2015/04/28
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MS

16	32° 56' 29.81" S	20° 29' 57.44" E
17	32° 56' 23.69" S	20° 26' 18.32" E
18	32° 56' 8.94" S	20° 25' 52.10" E
19	32° 55' 33.27" S	20° 25' 3.22" E
20	32° 54' 46.59" S	20° 23' 49.71" E
21	32° 54' 8.73" S	20° 24' 21.43" E
22	32° 50' 44.73" S	20° 24' 24.34" E
23	32° 50' 40.50" S	20° 24' 14.19" E
24	32° 49' 43.33" S	20° 25' 2.08" E
25	32° 48' 7.71" S	20° 25' 18.36" E
26	32° 48' 15.26" S	20° 23' 14.63" E
27	32° 47' 3.78" S	20° 23' 8.12" E
28	32° 45' 55.53" S	20° 23' 32.91" E
29	32° 44' 23.13" S	20° 26' 22.17" E
30	32° 45' 58.70" S	20° 27' 15.57" E
31	32° 44' 34.23" S	20° 28' 46.99" E

Power line route

Alternative 1a	Latitude	Longitude
Starting point	32° 51' 39.91" S	20° 28' 42.54" E
Middle point	32° 52' 5.72" S	20° 33' 14.49" E
End point	32° 55' 59.31" S	20° 35' 29.25" E

- for the proposed Karreebosch Wind Farm (Roggeveld Phase 2) and its associated infrastructure within the Karoo Hoogland Local Municipality and the Laingsburg Local Municipality in the Northern and Western Cape Provinces, hereafter referred to as "the property".

The Karreebosch Wind Farm will have an energy generation capacity of up to 140 MW, and will include the following infrastructure:

- Up to 65 wind turbines (2MW to 3.3MW in capacity each) with a foundation of 25m in diameter and 4m in depth;
- The hub height of each turbine will be 100 metres, and the rotor diameter 140 metres;

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- Permanent compacted hard standing areas / crane pads for each wind turbine (70mx50m);
- Electrical turbine transformers (690V/33kV) at each turbine (2m x 2m) footprint typical but up to 10m x 10m at certain locations;
- Internal access roads up to 12 m wide;
- Approximately 25km of 33kV overhead power lines linking the wind turbines to each other and to the on-site substations;
- Approximately 25km of 132kV overhead power lines from the on-site substation to Eskom's Komsberg Substation;
- Up to two electrical substations on-site (33/132 kV substations with a footprint of 100m x 200m each);
- Underground cabling between turbines buried along the internal access roads, where feasible;
- Extension of the existing 400kV Komsberg Substation with several electrical components to be defined by Eskom (e.g. additional feeder bay, transformer bay) on the existing substation property;
- An operations and maintenance building (O&M building);
- Up to 4 x 100m tall wind measuring masts;
- Temporary infrastructure required during the construction phase includes construction lay down areas and a construction camp up to 9ha (footprint size 300m x 300m); and
- A borrow pit for locally sourcing aggregates required for construction (~3ha).

Technical details of the proposed facility:

Component	Description/ Dimensions
Number of turbines	Up to 65 turbines (generation capacity of up to 140MW)
Hub height	100m
Blade length	~ 70m
Rotor Diameter	140m
Area occupied by transformer stations / substation	» One 33/132kV Substation 100m x 200m » Extension of the existing 400kV substation at Komsberg » Transformer at each turbine: total area <1500 m ² (2 m ² per turbine up to 10m ² at some locations)
Capacity of on-site substation	132 kV
Area occupied by construction camp	300 x 300m = 90 000m ²
Area occupied by laydown areas	Operation: (70 x 50) x 71 = 248 500 m ²
Areas occupied by buildings	~10 000 m ²

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Length of (new) internal access roads	~40 km
Width of internal roads	Up to 12 m
Height of fencing	Up to 3m
Type of fencing	Steel or wire mesh

Conditions of this Environmental Authorisation

Scope of authorisation

1. The proposed Karreebosch Wind Farm (Roggeveld Phase 2) and its associated infrastructure within the Karoo Hoogland Local Municipality and the Laingsburg Local Municipality in the Northern and Western Cape Provinces as described above is hereby approved.
2. Substation Alternative 1 is hereby approved. One 33/132kV substation will collect all cables at one central point to the south of Turbine 27.
3. Power line option Alternative 1 is hereby approved and will be routed southeast from the Alternative 1 Substation and thereafter towards the R354 connecting to the new 400kV substation to be located adjacent to the Komsberg Substation.
4. Authorisation of the activity is subject to the conditions contained in this environmental authorisation, which form part of the environmental authorisation and are binding on the holder of the authorisation.
5. The holder of the authorisation is responsible for ensuring compliance with the conditions contained in this environmental authorisation. This includes any person acting on the holder's behalf, including but not limited to, an agent, servant, contractor, sub-contractor, employee, consultant or person rendering a service to the holder of the authorisation.
6. The activities authorised may only be carried out at the property as described above.
7. Any changes to, or deviations from, the project description set out in this environmental authorisation must be approved, in writing, by the Department before such changes or deviations may be effected. In assessing whether to grant such approval or not, the Department may request such information as it deems necessary to evaluate the significance and impacts of such changes or deviations and it may be necessary for the holder of the authorisation to apply for further environmental authorisation in terms of the regulations.
8. The holder of an environmental authorisation must apply for an amendment of the environmental authorisation with the competent authority for any alienation, transfer or change of ownership rights in the property on which the activity is to take place.

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9. This activity must commence within a period of five (05) years from the date of issue of this environmental authorisation. If commencement of the activity does not occur within that period, the authorisation lapses and a new application for environmental authorisation must be made in order for the activity to be undertaken.
10. Construction must be completed within five (05) years of the commencement of the activity on site.
11. Commencement with one activity listed in terms of this environmental authorisation constitutes commencement of all authorised activities.

Notification of authorisation and right to appeal

12. The holder of the authorisation must notify every registered interested and affected party, in writing and within 14 (fourteen) calendar days of the date of this environmental authorisation, of the decision to authorise the activity.
13. The notification referred to must –
 - 13.1. specify the date on which the authorisation was issued;
 - 13.2. inform the interested and affected party of the appeal procedure provided for in the National Appeal Regulations, 2014;
 - 13.3. advise the interested and affected party that a copy of the authorisation will be furnished on request; and
 - 13.4. give the reasons of the competent authority for the decision.
14. The holder of the authorisation must publish a notice –
 - 14.1. informing interested and affected parties of the decision;
 - 14.2. informing interested and affected parties where the decision can be accessed; and
 - 14.3. drawing the attention of interested and affected parties to the fact that an appeal may be lodged against this decision in terms of the National Appeal Regulations, 2014.

Commencement of the activity

15. The authorised activity shall not commence until the period for the submission of appeals has lapsed as per the National Appeal Regulations, 2014. In terms of section 43(7), an appeal under section 43 of the National Environmental Management Act, 1998 will suspend the environmental authorisation or any provision or condition attached thereto. In the instance where an appeal is lodged you may not commence with the activity until such time that the appeal has been finalised.

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
Management of the activity

16. A copy of the final development layout map must be made available for comments by registered Interested and Affected Parties including the South African Large Telescope (SALT) and the South African Astronomical Observatory (SAAO) and the applicant must consider such comments. Once amended, the final development layout map must be submitted to the Department for written approval prior to commencement of the activity. Existing infrastructure must be used as far as possible e.g. roads. The layout map must indicate the following:
- 16.1. Position of the wind farm facilities and its associated infrastructure;
 - 16.2. Internal roads indicating width and length;
 - 16.3. Wetlands, drainage lines, rivers, stream and water crossing of roads and cables;
 - 16.4. All sensitive features e.g. heritage sites, wetlands, pans and drainage channels that will be affected by the facility and associated infrastructure;
 - 16.5. Substation(s) inverters and/or transformer(s) sites including their entire footprint;
 - 16.6. Cable routes and trench dimensions (where they are not along internal roads);
 - 16.7. All existing infrastructure on the site, especially roads;
 - 16.8. Buildings, including accommodation; and,
 - 16.9. All "no-go" and buffer areas.
17. Furthermore, a shapefile of the development layout/footprint must be submitted to this Department within two months from the date of this decision. The shapefile must be created using the Hartebeesthoek 94 Datum and the data should be in Decimal Degree Format using the WGS 84 Spheroid. The shapefile must include at a minimum the following extensions i.e. .shp; .shx; .dbf; .prj; and, .xml (Metadata file). If specific symbology was assigned to the file, then the .avl and/or the .lyr file must also be included. Data must be mapped at a scale of 1:10 000 or specify if an alternative scale was used. The metadata must include a description of the base data used for digitizing. The shapefile must be submitted in a zip file using the EIA application reference number as the title. The shape file must be submitted to:

Postal Address:

Department of Environmental Affairs
Private Bag X447
Pretoria
0001

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Physical address:

Department of Environmental Affairs

Environment House

473 Steve Biko

Arcadia

Pretoria

For Attention: Mr Muhammad Essop

Integrated Environmental Authorisations

Strategic Infrastructure Developments

Telephone Number: (012) 399 9406

Email Address: MEssop@environment.gov.za

18. The Environmental Management Programme (EMPr) submitted as part of the EIAr is not approved and must be amended to include mitigation measures against possible impacts on SALT and SAAO and as dictated by the final site lay-out map and micro-siting, and the provisions of this environmental authorisation. The EMPr must be made available for comments by registered Interested and Affected Parties including SALT and SAAO and the holder of this environmental authorisation must consider such comments. Once amended, the final EMPr must be submitted to the Department for written approval prior to commencement of the activity. Once approved the EMPr must be implemented and adhered to.
19. The EMPr amendment must include the following:
- 19.1. All recommendations and mitigation measures recorded in the EIAr and specialist studies attached as part of the EIAr.
- 19.2. The grazing withdrawal area agreement as per condition 37.
- 19.3. The requirements and conditions of this environmental authorisation.
- 19.4. Mitigation measures against possible impacts on SALT and SAAO must be included. This must be done in consultation with the respective stakeholders.
- 19.5. An alien invasive management plan to be implemented during construction and operation of the facility. The plan must include mitigation measures to reduce the invasion of alien species and ensure that the continuous monitoring and removal of alien species is undertaken.
- 19.6. A plant rescue and protection plan which allows for the maximum transplant of conservation important species from areas to be transformed. This plan must be compiled by a vegetation specialist familiar with the site in consultation with the Environmental Control Officer (ECO) and be implemented prior to commencement of the construction phase.

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- 19.7. A re-vegetation and habitat rehabilitation plan to be implemented during the construction and operation of the facility. Restoration must be undertaken as soon as possible after completion of construction activities to reduce the amount of habitat converted at any one time and to speed up the recovery to natural habitats.
- 19.8. A storm water and wash water management plan to be implemented during the construction and operation of the facility. The plan must ensure compliance with applicable regulations and prevent off-site migration of contaminated storm water or increased soil erosion. The plan must include the construction of design measures that allow surface and subsurface movement of water along drainage lines so as not to impede natural surface and subsurface flows. Drainage measures must promote the dissipation of storm water run-off.
- 19.9. An erosion management plan for monitoring and rehabilitating erosion events associated with the facility. Erosion mitigation must form part of this plan to prevent and reduce the risk of any potential erosion.
- 19.10. An effective monitoring system to detect any leakage or spillage of any hazardous substances during their transportation, handling, use or storage. This must include precautionary measures to limit the possibility of oil and other toxic liquids from entering the soil or storm water systems.
- 19.11. Measures to protect hydrological features such as streams, rivers, pans, wetlands, dams and their catchments, and other environmental sensitive areas from construction impacts including the direct or indirect spillage of pollutants.
- 19.12. A fire management plan to be implemented during the construction and operation of the facility.
- 19.13. An environmental sensitivity map indicating environmentally sensitive areas and features identified during the EIA process.
- 19.14. The final site layout map.
- 19.15. The final site layout map superimposed (overlain) on the environmental sensitivity map. This map must reflect the approved location of the wind farm as stated in the EIAR and this environmental authorisation.

Frequency and process of updating the EMPr

20. The EMPr must be updated where the findings of the environmental audit reports, contemplated in Condition 27 below, indicate insufficient mitigation of environmental impacts associated with the undertaking of the activity, or insufficient levels of compliance with the environmental authorisation or EMPr.
21. The updated EMPr must contain recommendations to rectify the shortcomings identified in the environmental audit report.

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22. The updated EMPr must be submitted to the Department for approval together with the environmental audit report, as per Regulation 34 of GN R. 982. The updated EMPr must have been subjected to a public participation process, which process has been agreed to by the Department, prior to submission of the updated EMPr to the Department for approval.
23. In assessing whether to grant approval of an EMPr which has been updated as a result of an audit, the Department will consider the processes prescribed in Regulation 35 of GN R.982. Prior to approving an amended EMPr, the Department may request such amendments to the EMPr as it deems appropriate to ensure that the EMPr sufficiently provides for avoidance, management and mitigation of environmental impacts associated with the undertaking of the activity.
24. The holder of the authorisation may apply for an amendment of an EMPr, if such amendment is required before an audit is required. The holder must notify the Department of its intention to amend the EMPr at least 60 days prior to submitting such amendments to the EMPr to the Department for approval. In assessing whether to grant such approval or not, the Department will consider the processes and requirements prescribed in Regulation 37 of GN R. 982.


Monitoring

25. The holder of the authorisation must appoint an experienced independent ECO for the construction phase of the development that will have the responsibility to ensure that the mitigation/rehabilitation measures and recommendations referred to in this environmental authorisation are implemented and to ensure compliance with the provisions of the approved EMPr.
 - 25.1. The ECO must be appointed before commencement of any authorised activities.
 - 25.2. Once appointed, the name and contact details of the ECO must be submitted to the *Director: Compliance Monitoring* of the Department.
 - 25.3. The ECO must keep record of all activities on site, problems identified, transgressions noted and a task schedule of tasks undertaken by the ECO.
 - 25.4. The ECO must remain employed until all rehabilitation measures, as required for implementation due to construction damage, are completed and the site is ready for operation.

Recording and reporting to the Department

26. All documentation e.g. audit/monitoring/compliance reports and notifications, required to be submitted to the Department in terms of this environmental authorisation, must be submitted to the *Director: Compliance Monitoring* of the Department.

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27. The holder of the environmental authorisation must, for the period during which the environmental authorisation and EMPr remain valid, ensure that project compliance with the conditions of the environmental authorisation and the EMPr are audited, and that the audit reports are submitted to the *Director: Compliance Monitoring* of the Department.
28. The frequency of auditing and of submission of the environmental audit reports must be as per the frequency indicated in the EMPr, taking into account the processes for such auditing as prescribed in Regulation 34 of GN R. 982.
29. The holder of the authorisation must, in addition, submit environmental audit reports to the Department within 30 days of completion of the construction phase (i.e. within 30 days of site handover) and a final environmental audit report within 30 days of completion of rehabilitation activities.
30. The environmental audit reports must be compiled in accordance with appendix 7 of the EIA Regulations, 2014 and must indicate the date of the audit, the name of the auditor and the outcome of the audit in terms of compliance with the environmental authorisation conditions as well as the requirements of the approved EMPr.
31. Records relating to monitoring and auditing must be kept on site and made available for inspection to any relevant and competent authority in respect of this development.

Notification to authorities

32. A written notification of commencement must be given to the Department no later than fourteen (14) days prior to the commencement of the activity. Commencement for the purposes of this condition includes site preparation. The notice must include a date on which it is anticipated that the activity will commence, as well as a reference number.

Operation of the activity

33. A written notification of operation must be given to the Department no later than fourteen (14) days prior to the commencement of the activity operational phase.

Site closure and decommissioning

34. Should the activity ever cease or become redundant, the holder of the authorisation must undertake the required actions as prescribed by legislation at the time and comply with all relevant legal requirements administered by any relevant and competent authority at that time.

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Specific conditions

Non-operational aspects

35. Turbine position 17 must be excluded from the proposed development as per the recommendation of the Avifaunal Impact Assessment; bringing the total number of turbines approved to 65.
36. The approved turbines must be placed in such a manner that it avoids all "no-go" areas.
37. The grazing withdrawal area recommended by the Ecological Specialist must form part of the Lease Agreement between the holder of this authorisation and the land owners. A minimum of 1300 ha must be set aside for the grazing withdrawal area; this area must be fenced and not grazed by livestock for at least 20 years. A copy of this agreement must be included in the EMP.
38. The results of the pre-construction bird and bat monitoring programme dated October 2014 must inform the final layout and the construction schedule of the energy facility.
39. During construction the applicant must restrict the construction activities to the footprint area. No access to the remainder of the property is allowed.
40. Turbines must be positioned in such a way that shadow flicker does not affect any farm buildings.
41. The facility must be designed to discourage the use of infrastructure components as perching or roosting substrates by birds and bats.
42. No turbines must be located within a 1000 m buffer surrounding the Spotted – Black Eagle Nests and all active nest sites must be avoided.
43. Anti-collision devices such as bird flappers must be installed where power lines cross avifaunal corridors (e.g. grasslands, rivers, wetlands, and dams). The input of an avifaunal specialist must be obtained for the fitting of the anti-collision devices onto specific sections of the line once the exact positions of the towers have been surveyed and pegged. Additional areas of high sensitivity along the preferred alignment must also be identified by the avifaunal specialist for the fitment of anti-collision devices. These devices must be according to Eskom's Transmission and EWT's Guidelines.
44. All areas of disturbed soil must be reclaimed using only indigenous grass and shrubs. Reclamation activities shall be undertaken according to the rehabilitation plan to be included in the final EMP.
45. Cleared alien vegetation must not be dumped on adjacent intact vegetation during clearing but must be temporarily stored in a demarcated area.
46. All power lines linking wind turbines to each other and to the internal substation must be buried. Only power lines linking the wind energy facility to the grid may be above the ground.
47. A pre-construction walk through on the selected power line alignment and turbine positions by a bat specialist, avifaunal specialist and ecologist, must be conducted to ensure that the micro-siting of the

- turbines and power line has the least possible impact, there are no nests sites of priority species on or close to the construction corridor and all protected plant species impacted are identified.
48. Vegetation clearing must be limited to the authorised footprint.
 49. Before the clearing of the site, the appropriate permits must be obtained from the Department of Agriculture, Forestry and Fisheries (DAFF) for the removal of plants listed in the National Forest Act and from the relevant provincial department for the destruction of species protected in terms of the specific provincial legislation. Copies of the permits must be kept by the ECO.
 50. Construction activities must be restricted to demarcated areas to restrict the impact on sensitive environmental features.
 51. Topsoil from all excavations and construction activities must be salvaged and reapplied during reclamation.
 52. No activities will be allowed to encroach into a water course/resource without a Water Use License being in place from the Department of Water and Sanitation.
 53. The holder of this authorisation must ensure that all the "No-go" and buffer areas are clearly demarcated (using fencing and appropriate signage) before construction commences.
 54. Contractors and construction workers must be clearly informed of the no-go areas.
 55. Where roads pass right next to major water bodies, provision shall be made for fauna such as toads to pass under the roads by using culverts or similar structures.
 56. Bridge design must be such that it minimise impact to riparian areas with minimal alterations to water flow and must allow the movement of fauna and flora.
 57. The final development area should be surveyed for species suitable for search and rescue, which should be translocated prior to the commencement of construction.
 58. Electric fencing must not have any strands within 30cm of the ground, which should be sufficient to allow smaller mammals and reptiles to pass through, but still remain effective as a security barrier.
 59. Wetlands, rivers and river riparian areas must be treated as "no-go" areas and appropriately demarcated as such. No vehicles, machinery, personnel, construction material, fuel, oil, bitumen or waste must be allowed into these areas without the express permission of and supervision by the ECO, except for rehabilitation work in these areas.
 60. Disturbed areas must be rehabilitated as soon as possible after construction with locally indigenous plants to enhance the conservation of existing natural vegetation on site.
 61. A health and safety programme must be developed to protect both workers and the general public during construction, operation and decommissioning of the energy facility. The programme must establish a safety zone for wind turbines from residences and occupied buildings, roads, right-of-ways

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and other public access areas that is sufficient to prevent accidents resulting from the operation of the wind turbines.

62. Workers must be made aware of the importance of not destroying or damaging the vegetation along rivers and in wetland areas and this awareness must be promoted throughout the construction phase.
63. Freshwater ecosystems located in close proximity to the construction areas must be inspected on a regular basis by the ECO for signs of disturbance from construction activities. If signs of disturbance are noted, immediate action must be taken to remedy the situation and, if necessary, a freshwater ecologist must be consulted for advice on the most suitable remediation measures.
64. No discharge of effluents or polluted water must be allowed into any rivers or wetland areas.
65. If construction areas are to be pumped of water (e.g. after rains), this water must be pumped into an appropriate settlement area, and not allowed to flow into any rivers or wetland areas.
66. Workers must be made aware of the importance of not polluting rivers or wetlands and of not undertaking activities that could result in such pollution, and this awareness must be promoted throughout the construction phase.
67. Freshwater ecosystems located in close proximity to the site must be inspected on a regular basis (but especially after rainfall) by the ECO for signs of sedimentation and pollution. If signs of sedimentation or pollution are noted, immediate action must be taken to remedy the situation and, if necessary, a freshwater ecologist must be consulted for advice on the most suitable remediation measures.
68. Existing road infrastructure must be used as far as possible for providing access to the proposed turbine positions. Where no road infrastructure exists, new roads should be placed within existing disturbed areas or environmental conditions must be taken into account to ensure the minimum amount of damage is caused to natural habitats.
69. Signs must be placed along construction roads to identify speed limits, travel restrictions, and other standard traffic control information. To minimize impacts on local commuter, consideration should be given to limiting construction vehicles travelling on public roadways during the morning and late afternoon commute time.
70. Internal access roads must be located to minimize stream crossings. All structures crossing streams must be located and constructed so that they do not decrease channel stability or increase water velocity.
71. A designated access to the site must be created and clearly marked to ensure safe entry and exit.
72. Signage must be erected at appropriate points warning of turning traffic and the construction site.
73. Construction vehicles carrying materials to the site should avoid using roads through densely populated built-up areas so as not to disturb existing retail and commercial operations.

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Jodi von Buchenroder 2018/06/28

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74. Road borders should be regularly maintained to ensure that vegetation remains short and that they therefore serve as an effective firebreak.
75. Roads must be designed so that changes to surface water runoff are avoided and erosion is not initiated.
76. All construction vehicles should adhere to a low speed limit to avoid collisions with susceptible species such as snakes and tortoises.
77. The holder of this authorisation must ensure that the National Noise Control Regulations and SANS10103:2008 are adhered to and measures to limit noise from the work site are implemented.
78. The holder of this authorisation must ensure that the construction staff working in areas where the 8-hour ambient noise levels exceed 75dBA must wear ear protection equipment.
79. The holder of this authorisation must ensure that all equipment and machinery are well maintained and equipped with silencers.
80. The holder of this authorisation must provide a prior warning to the community when a noisy activity e.g. blasting is to take place.
81. All wind turbines should be located at a setback distance of 500m from any homestead and a day/night noise criteria level at the nearest residents of 45dB(A) should be used to locate the turbines. The 500m setback distance can be relaxed if local factors; such as high ground between the noise source and the receiver, indicates that a noise disturbance will not occur.
82. Construction staff must be trained in actions to minimise noise impacts.
83. The holder of this authorisation must reduce visual impacts during construction by minimising areas of surface disturbance, controlling erosion, using dust suppression techniques and restoring exposed soil as closely as possible to their original contour and vegetation.
84. A lighting engineer must be consulted to assist in the planning and placement of light fixtures in order to reduce visual impacts associated with glare and light trespass.
85. Signage on or near wind turbines must be avoided unless they serve to inform the public about wind turbines and their function.
86. Commercial messages and graffiti on turbines must be avoided.
87. Potentials interference with public safety communication systems (e.g. radio traffic related to emergency activities) must be avoided.
88. The holder of this authorisation must obtain approval from the South Africa Civil Aviation Authority that the wind facility will not interfere with the performance of aerodrome radio Communication, Navigation and Surveillance (CNS) equipment, especially the radar, prior to commencement of the activity. A copy of the approval must be kept on site by the ECO.

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89. The holder of this authorisation must obtain approval from the South Africa Weather Services (WeatherSA) that the energy facility will not interfere with the performance of their equipment, especially radar, prior to commencement of the activity. A copy of the approval must be kept on site by the ECO.
90. The holder of this authorisation must train safety representatives, managers and workers in workplace safety. The construction process must be compliant with all safety and health measures as prescribed by the relevant act.
91. Liaison with land owners/farm managers must be done prior to construction in order to provide sufficient time for them to plan agricultural activities.
92. Areas around fuel tanks must be bunded or contained in an appropriate manner as per the requirements of SABS 089:1999 Part 1.
93. Leakage of fuel must be avoided at all times and if spillage occurs, it must be remedied immediately.
94. Hazardous waste such as bitumen, oils, oily rags, paint tins etc. must be disposed of at an approved waste landfill site licensed to accept such waste.
95. No dumping or temporary storage of any materials may take place outside designated and demarcated laydown areas, and these must all be located within areas of low environmental sensitivity.
96. Hazardous substances must not be stored where there could be accidental leakage into surface or subterranean water.
97. Hazardous and flammable substances must be stored and used in compliance to the applicable regulations and safety instructions.
98. Temporary bunds must be constructed around chemical storage to contain possible spills.
99. Spill kits must be made available on-site for the clean-up of spills.
100. An integrated waste management approach must be implemented that is based on waste minimisation and must incorporate reduction, recycling and re-use options where appropriate. Where solid waste is disposed of, such disposal shall only occur at a landfill licensed in terms of section 20(b) of the National Environment Management Waste Act, 2008 (Act 59 of 2008).
101. The holder of this authorisation must provide sanitation facilities within the construction camps and along the road so that workers do not pollute the surrounding environment. These facilities must be removed from the site when the construction phase is completed as well as associated waste to be disposed of at a registered waste disposal site.
102. The holder of this authorisation must take note that no temporary site camps will be allowed outside the footprint of the development area as the establishment of such structures might trigger a listed activity as defined in the Environmental Impact Assessment Regulations, 2014.
103. Underground cables and internal access roads must be aligned as much as possible along existing infrastructure to limit damage to vegetation and watercourses.

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104. Foundations and trenches must be backfilled with originally excavated materials as much as possible. Excess excavation materials must be disposed of only in approved areas or, if suitable, stockpiled for use in reclamation activities.
105. Borrow materials must be obtained only from authorized and permitted sites. Permits must be kept on site by the ECO.
106. Anti-erosion measures such as silt fences must be installed in disturbed areas.
107. Dust abatement techniques must be used before and during surface clearing, excavation, or blasting activities.
108. Appropriate dust suppression techniques must be implemented on all exposed surfaces during periods of high wind. Such measures may include wet suppression, chemical stabilisation, the use of a wind fence, covering surfaces with straw chippings and re-vegetation of open areas.
109. If concentrations of archaeological heritage material, fossils and human remains are uncovered during construction, all work must cease immediately and be reported to the South African Heritage Resources Agency (SAHRA) and Western Cape Heritage so that a systematic and professional investigation/excavation can be undertaken.
110. Construction managers/foremen must be informed before construction starts on the possible types of heritage sites and cultural material they may be encountered and the procedures to follow when they find sites.
111. All buffers and no-go areas stipulated in this report must be adhered to for both the facilities and all roads and power lines.
112. Should any human remains be uncovered during development they must be immediately protected *in situ* and reported to the heritage authorities or to an archaeologist. The remains will need to be exhumed at the cost of the developer.
113. All construction and maintenance crew and vehicles (except small vehicles which may use existing farm tracks) should be kept out of the buffer zones.

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Operational Aspects

114. Post-construction avifauna and bat monitoring by an independent monitor should take place for at least two years after operation has commenced. It is recommended that this is done in accordance with BirdLife South Africa/Endangered Wildlife Trust: Best practice guidelines for avian monitoring and impact mitigation at proposed wind energy development sites in Southern Africa.
115. Reports regarding bird monitoring must be submitted to the relevant provincial environmental department, BirdLife South Africa, the Endangered Wildlife Trust (EWT) and this Department on a

quarterly basis. The report will assist all stakeholders in identifying potential and additional mitigation measures and to establish protocols for a bird monitoring programme for wind energy development in the country.

116. Removal of alien invasive species or other vegetation and follow-up procedures must be in accordance with the Conservation of Agricultural Resources Act, 1983 (Act 43 of 1983).
117. The holder of this authorisation must ensure that the operation of the wind facility shall comply with the relevant communication regulations or guidelines relating to electromagnetic interference, e.g. microwave, radio and television transmissions.

General


118. A copy of this environmental authorisation, the audit and compliance monitoring reports, and the approved EMP, must be made available for inspection and copying-
 - 118.1. at the site of the authorised activity;
 - 118.2. to anyone on request; and
 - 118.3. where the holder of the environmental authorisation has a website, on such publicly accessible website.
119. National government, provincial government, local authorities or committees appointed in terms of the conditions of this authorisation or any other public authority shall not be held responsible for any damages or losses suffered by the holder of the authorisation or his/her successor in title in any instance where construction or operation subsequent to construction be temporarily or permanently stopped for reasons of non-compliance by the holder of the authorisation with the conditions of authorisation as set out in this document or any other subsequent document emanating from these conditions of authorisation.

Date of environmental authorisation: 29/01/2016


Mr Sabelo Malaza

Chief Director: Integrated Environmental Authorisations
Department of Environmental Affairs

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Annexure 1: Reasons for Decision


1. Information considered in making the decision

In reaching its decision, the Department took, *inter alia*, the following into consideration -

- a) The listed activities as applied for in the application form received on 23 March 2015;
- b) The information contained in the EIAr dated September 2015;
- c) The comments received from the Western Cape Department of Agriculture, CapeNature, Western Cape Department of Environmental Affairs and Development Planning, the Department of Science and Technology, the South African Astronomical Observatory, Eskom Distribution (Western Operating Unit), the Department of Water and Sanitation, the Northern Cape Department of Environment and Nature Conservation, Heritage Western Cape, Sentech and interested and affected parties as included in the EIAr dated September 2015;
- d) Mitigation measures as proposed in the EIAr dated September 2015 and the EMPr;
- e) The information contained in the specialist studies contained within the appendices of the EIAr dated September 2015 and as appears below:

Title	Prepared by	Date
Fauna & Flora Specialist Report For EIA	Simon Todd (Simon Todd Consulting)	October 2014
Avifaunal Pre-construction Monitoring Report	Dr A.J Williams (Africa Insights)	October 2014
Avifauna Specialist Report	Dr Rob Simmons & Marlei Martins (Birds Unlimited)	Not provided
Bat Study & Monitoring Report	Michael Pierce (Animalia)	July 2015
Solis and Agriculture Impact Assessment	Savannah Environmental (Pty) Ltd	July 2015
Aquatic Impact Statement	Scherman Colloty & Associates	July 2015
Noise Impact Study	A.W.D Jongens	August 2015
Visual Impact Assessment	MetroGIS (Pty) Ltd	July 2015
Heritage Impact Assessment	Tim Hart & Natalie Kendrick (ACO Associates)	July 2015
Social Impact Assessment	Tony Barbour & Schalk van der Merwe	July 2015

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2. Key factors considered in making the decision

All information presented to the Department was taken into account in the Department's consideration of the application. A summary of the issues which, in the Department's view, were of the most significance is set out below.

- a) Details provided of the qualifications of the Environmental Assessment Practitioner (EAP).
- b) The findings of all the specialist studies conducted and their recommended mitigation measures.
- c) The need for the proposed project stems from the provision of electricity to the national grid in terms of the Renewable Energy Independent Power Producers Procurement Programme (RRIPPPP) as required by the Department of Energy.
- d) Description of the environment that may be affected by the activity and the manner in which the physical, biological, social, economic and cultural aspects of the environment may be affected by the proposed activity.
- e) The EIAr dated September 2015 identified all legislation and guidelines that have been considered in the preparation of the EIAr.
- f) The methodology used in assessing the potential impacts identified in the EIAr dated September 2015 and the specialist studies have been adequately indicated.
- g) A sufficient public participation process was undertaken and the applicant has satisfied the minimum requirements as prescribed in the EIA Regulations, 2014 for public involvement.

3. Findings


After consideration of the information and factors listed above, the Department made the following findings -

- a) The identification and assessment of impacts are detailed in the EIAr dated September 2015 and sufficient assessment of the key identified issues and impacts have been completed.
- b) Turbine position 17 must be excluded from the proposed development as per the recommendation of the Avifaunal Impact Assessment.
- c) The approved turbines must be placed in such a manner that it avoids all "no-go" areas.
- d) The grazing withdrawal area recommended by the Ecological Specialist must form part of the Lease Agreement between the holder of this authorisation and the land owners.
- e) A minimum of 1300 ha must be set aside for the grazing withdrawal area; this area must be fenced and not grazed by livestock for at least 20 years. A copy of this agreement must be included in the EMPr as per recommendation by Biodiversity & Conservation.

- f) The procedure followed for impact assessment is adequate for the decision-making process.
- g) The proposed mitigation of impacts identified and assessed adequately curtails the identified impacts.
- h) The information contained in the EIAr dated September 2015 is deemed to be accurate and credible.
- i) EMPr measures for the pre-construction, construction and rehabilitation phases of the development were proposed and included in the EIAr and will be implemented to manage the identified environmental impacts during the construction process.

In view of the above, the Department is satisfied that, subject to compliance with the conditions contained in the environmental authorisation, the proposed activity will not conflict with the general objectives of integrated environmental management laid down in Chapter 5 of the National Environmental Management Act, 1998 and that any potentially detrimental environmental impacts resulting from the proposed activity can be mitigated to acceptable levels. The application is accordingly granted.

I the undersigned hereby certify that this is a true copy of the original exhibited to me and that there is no indication that the original document has been altered by unauthorised persons

 2018/06/28

JODI VON BUCHENRODER
Commissioner of Oaths (RSA) Chartered Accountant (SA)
Membership No. 20027061
14th Floor Pier Place, Heerengracht Street
Forsythia, Cape Town 8001



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

Private Bag X 447 · PRETORIA · 0001 · Environment House · 473 Steve Biko Road, Arcadia · PRETORIA
Tel (+ 27 12) 399 9372

DEA Reference: 14/12/16/3/3/2/807/AM1

Enquiries: Mr Herman Alberts

Telephone: (012) 399 9371 **E-mail:** HAlberts@environment.gov.za

Mr Khangelani Mbanjwa
Karrebosch Wind Farm (Pty) Ltd
5th Floor, 125 Buitengracht Street
CAPE TOWN
8001

Telephone Number: (021) 300 0610
Email Address: methuli@g7energies.com

PER E-MAIL / MAIL

Dear Mr Mbanjwa

ACKNOWLEDGMENT OF RECEIPT OF AMENDMENT OF THE ENVIRONMENTAL AUTHORISATION ISSUED ON 29 JANUARY 2016 FOR THE PROPOSED KARREEBOSCH WIND FARM (ROGGEVELD PHASE 2) AND ASSOCIATED INFRASTRUCTURE WITHIN THE KAROO HOOGLAND LOCAL MUNICIPALITY IN THE NORTHERN CAPE AND WESTERN CAPE PROVINCES

The Environmental Authorisation (EA) for the abovementioned project dated 29 January 2016 and your application for amendment to the EA received by the Department on 16 May 2016 submitted in terms of the provisions of Regulation 29 of the EIA Regulations, 2014, refer.

Please note that your application for amendment of environmental authorisation falls within the ambit of amendments to be applied for in terms of Part 1 of Chapter 5 of the Environmental Impact Assessment Regulations (2014). You are referred to Regulation 30.

Yours faithfully

Mr Sabelo Malaza

Chief Director: Integrated Environmental Authorisations

Department of Environmental Affairs

Letter Signed by: Mahlatshe Shubane

Designation: Assistant Director: Strategic Infrastructure Developments

Date: 03 June 2016

I the undersigned hereby certify that this is a true copy of the original exhibited to me and that there is no indication that the original document has been altered by unauthorised persons

2018/06/28

JODI VON BUCHENRÖDER
Commissioner of Oaths (RSA) Chartered Accountant (SA)
Membership No. 20027061
14th Floor Pier Place, Heerengracht Street
Foreshore, Cape Town 8001
Contact No: +27 21 418 3940



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

Private Bag X 447· PRETORIA · 0001· Environment House · 473 Steve Biko, Arcadia· PRETORIA
Tel (+ 27 12) 399 9372

DEA Reference: 14/12/16/3/3/2/807/AM1

Enquiries: Mr Herman Alberts

Telephone: (012) 399 9371 E-mail: HALberts@henvironment.gov.za

Mr Khangelani Mbanjwa
Karreebosch Wind Farm (Pty) Ltd
5th Floor, 125 Buitengracht Street
CAPE TOWN
8001

Telephone Number: (021) 300 0610
Email Address: methuli@g7energies.com

PER E-MAIL / MAIL

Dear Mr Mbanjwa

AMENDMENT OF THE ENVIRONMENTAL AUTHORISATION ISSUED ON 29 JANUARY 2016 FOR THE PROPOSED KARREEBOSCH WIND FARM (ROGGEVELD PHASE 2) AND ITS ASSOCIATED INFRASTRUCTURE WITHIN THE KAROO HOOGLAND AND LAINGSBURG LOCAL MUNICIPALITIES IN THE NORTHERN AND WESTERN CAPE PROVINCES

The Environmental Authorisation (EA) issued for the above application by this Department on 29 January 2016, your application for amendment of the EA received by this Department on 15 May 2016 and the acknowledgement letter dated 03 June 2016 refer.

Based on a review of the reason for requesting an amendment to the above EA, this Department, in terms of Chapter 5 of the Environmental Impact Assessment Regulations, 2014, has decided to amend the EA dated 29 January 2016 as follows:

Amendment 1: Amendment to the description of listed activity GN R. 983: Activity 12 (xii)

From:

GN R. 983: Activity 12 (xii) "The development of—
(xii) infrastructure or structures with a physical footprint of 100 square metres or more; where such development occurs - if no development setback exists, within 32 metres of a watercourse, measured from the edge of a watercourse"

To:

GN R. 983: Activity 12 (xii) "The development of—
(xii) infrastructure or structures with a physical footprint of 100 square metres or more; where such development occurs - if no development setback exists, within 32 metres of a watercourse, measured from the edge of a watercourse"

where such development occurs

(a) within a watercourse;

(c) if no development setback exists, within 32 metres of a watercourse, measured from the edge of a watercourse;

I the undersigned hereby certify that this is a true copy of the original exhibited to me and that there is no indication that the original document has been altered by unauthorised persons

Jodi von Buchenroder 2016/06/28

JODI VON BUCHENRODER
Commissioner of Oaths (RSA) Chartered Accountant (SA)
Membership No. 20027061
14th Floor Pier Place, Heerengracht Street
Foreshore, Cape Town 8001
Contact No: +27 21 418 3940.

Amendment 2 and 3: Amendment to the description of listed activity GN R. 985: Activity 14 (xii) (a) (ii) (bb) (ff) and 14 (f) (i) (bb) (ff)

I the undersigned hereby certify that this is a true copy of the original exhibited to me and that there is no indication that the original document has been altered by unauthorised persons

Jodi 2018/06/28

From:

GN R. 985: Activity 14 (xii) (a) (ii) (bb) (ff) and 14 (f) (i) (bb) (ff):

"The development of-

(xii) infrastructure or structures with a physical footprint of 10 square metres or more;
(a) if no development setback has been adopted, within 32 metres of a watercourse, measured from the edge of a watercourse;

(a) In Northern Cape:

(ii) Outside urban areas, in:

(bb) National Protected Area Expansion" Strategy Focus areas;

(ff) Critical biodiversity areas or ecosystem service areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans;

(f) In Western Cape:

(i) Outside urban areas, in:

(bb) National Protected Area Expansion Strategy Focus areas; Critical biodiversity areas or ecosystem service areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans.

JODI VON BUCHENRODER
Commissioner of Oaths (RSA) Chartered Accountant (SA)
Membership No. 20027061
14th Floor Pier Place, Heerengracht Street
Forsythia, Cape Town 8001
Contact No: +27 21 418 3940

To:

GN R. 985: Activity 14 (xii) (a) (ii) (bb) (ff) and 14 (f) (i) (bb) (ff):

"The development of-

(xii) infrastructure or structures with a physical footprint of 10 square metres or more;

(a) within a watercourse;

(c) if no development setback has been adopted, within 32 metres of a watercourse, measured from the edge of a watercourse;

(a) In Northern Cape:

(ii) Outside urban areas, in:

(bb) National Protected Area Expansion" Strategy Focus areas;

(ff) Critical biodiversity areas or ecosystem service areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans;

(f) In Western Cape:

(i) Outside urban areas, in:

(bb) National Protected Area Expansion Strategy Focus areas; Critical biodiversity areas or ecosystem service areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans.

(ff) Critical biodiversity areas or ecosystem service areas as identified in systematic biodiversity plans Adopted by the competent authority or in bioregional plans

Amendment 4: Amendment to the description of listed activity GN R. 985 Activity 18 (a) (ii) (bb) (ee) and 18 (f)(i) (aa)

From:

GN R. 985 Activity 18 (a) (ii) (bb) (ee) and 18 (f)(i) (aa);

The widening of a road by more than 4 metres, or the lengthening of a road by more than 1 kilometre

(a) in Northern Cape provinces:

(ii) Outside urban areas, in:

(bb) National Protected Area Expansion Strategy Focus areas;

(ee) Critical biodiversity areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans;

- (ii) Areas on the watercourse side of the development setback line or within 100 metres from the edge of a watercourse where no such setback line has been determined;
- (f) in Western Cape provinces:
 - (i) All areas outside urban areas, Areas containing indigenous vegetation.

To:

- GN R. 985 Activity 18 (a) (ii) (bb) (ee) and 18 (f) (i)(aa);
The widening of a road by more than 4 metres, or the lengthening of a road by more than 1 kilometre
- (a) in Northern Cape provinces:
 - (ii) Outside urban areas, in:
 - (bb) National Protected Area Expansion Strategy Focus areas;
 - (ee) Critical biodiversity areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans;
 - (ii) Areas on the watercourse side of the development setback line or within 100 metres from the edge of a watercourse where no such setback line has been determined;
 - (f) in Western Cape provinces:
 - (i) All areas outside urban areas, Areas containing indigenous vegetation
 - (aa) Areas containing indigenous vegetation;

Amendment 5: Amendment the wording on page 06 Activity 18 column 2 of the EA

From:

In two areas on site the existing access road will be lengthened, in both cases the distance of each is less than 2km of new road.

To:


In two areas on site the existing access road will be lengthened.

Amendment 6: Amendment to the description of listed activity GNR.985: Activity 23 (xii) (a) (ii) (ee) and 23 (xii) (g) (i) (bb) (ff)

From:

- GNR.985: Activity 23 (xii) (a) (ii) (ee) and 23 (xii) (g) (i) (bb) (ff)
The expansion of-
- (xii) infrastructure or structures where the physical footprint is expanded by 10square metres or more; where such development occurs— (a) if no development setback has been adopted, within 32 metres of a watercourse measured from the edge of a watercourse; (a) in Northern Cape: (ii) Outside urban areas, in:
 - (bb) National Protected Area Expansion Strategy Focus areas;
 - (ee) Critical biodiversity areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans;
 - (g) in Western Cape:
 - (i) Outside urban areas, in:
 - (bb) National Protected Area Expansion Strategy Focus areas; Critical biodiversity areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans;

I the undersigned hereby certify that this is a true copy of the original exhibited to me and that there is no indication that the original document has been altered by unauthorised persons

 2018/06/28

JODI VON BUCHENRODER
Commissioner of Oaths (RSA) Chartered Accountant (SA)
Membership No. 20027061
14th Floor Pier Place, Heerengracht Street
Foreshore, Cape Town 8001
Contact No: +27 21 418 3940

To:

GNR.985: Activity 23 (xii) (a) (ii) (ee) and 23 (xii) (g) (i) (bb) (ff)

The expansion of-

(xii) infrastructure or structures where the physical footprint is expanded by 10square metres or more; where such development occurs—

(a) Within a watercourse

(c) if no development setback has been adopted, within 32 metres of a watercourse measured from the edge of a watercourse; (a) in Northern Cape: (ii) Outside urban areas, in:

(bb) National Protected Area Expansion Strategy Focus areas;

(ee) Critical biodiversity areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans;

(g) in Western Cape:

(i) Outside urban areas, in:

(bb) National Protected Area Expansion Strategy Focus areas; Critical biodiversity areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans;

(ff)Critical biodiversity areas or ecosystem service areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans;

Amendment 7: Amendment to the wording on page 10 of the EA The undersigned hereby certify that this is a true copy of the original exhibited to me and that there is no indication that the original document has been altered by unauthorised persons

From:

One 33/132kV substation

To:

Two 33/132kV Substations (100m x 200m)


2018/06/28
JODI VON BUCHENRODER
Commissioner of Oaths (RSA) Chartered Accountant (SA)
Membership No. 20027061
14th Floor Pier Place, Heerengracht Street
Foreshore, Cape Town 8001
Contact No: +27 21 418 3940

Amendment 8: Amendment to the wording of condition 46 on page 18 as part of the EA

From:

All power lines linking wind turbines to each other and to the internal substation must be buried. Only power lines linking the wind energy facility to the grid may be above the ground.

To:

Power lines linking wind turbines to each other and to the internal substation must be buried where feasible. This amendment letter must be read in conjunction with the Environmental Authorisation issued by this Department on 29 January 2016.

Furthermore, a shapefile of the approved development layout/footprint must be submitted to this Department within two (2) months from the date of this letter. The shapefile must be created using the Hartebeesthoek 94 Datum and the data should be in Decimal Degree Format using the WGS 84 Spheroid. The shapefile must include at a minimum the following extensions i.e. .shp; .shx; .dbf; .prj; and, .xml (Metadata file). If specific symbology was assigned to the file, then the .avl and/or the .lyr file must also be included. Data must be mapped at a scale of 1:10 000 (please specify if an alternative scale was used). The metadata must include a description of the base data used for digitizing. The shapefile must be submitted in a zip file using the EIA application reference number as the title.

The shape file must be submitted to:

Postal Address:

Department of Environmental Affairs
Private Bag X447
Pretoria
0001

Physical address:

Department of Environmental Affairs
Environment House
473 Steve Biko
Arcadia
Pretoria

For Attention: Mr Muhammad Essop
Integrated Environmental Authorisations
Strategic Infrastructure Developments
Telephone Number: (012) 399 9406
Email Address: MEssop@environment.gov.za

In terms of Regulation 4(2) of the Environmental Impact Assessment Regulations, 2014 (the Regulations), you are instructed to notify all registered interested and affected parties, in writing and within 14 (fourteen) days of the date of the Department's decision in respect of the amendment made as well as the provisions regarding the submission of appeals that are contained in the Regulations.

Your attention is drawn to Chapter 2 of Government Notice No. R. 993, which prescribes the appeal procedure to be followed. Kindly include a copy of this document with the letter of notification to interested and affected parties.

An appellant must submit an appeal to the appeal administrator, and a copy of the appeal to the applicant, any registered interested and affected party and any organ of state with interest in the matter within 20 days from the date that the notification of the decision was sent to the applicant by the competent authority.

By post: Private Bag X447,
Pretoria,
0001; or


By hand: Environment House
473 Steve Biko,
Arcadia, Pretoria,

Appeals must be submitted in writing to:

Mr Z Hassam, Director: Appeals and Legal Review, of this Department at the above mentioned addresses. Mr Hassam can also be contacted at:

Tel: (012) 399 9356
Email: Appealsdirector@environment.gov.za

I, the undersigned hereby certify that this is a true copy of the original exhibited to me and that there is no indication that the original document has been altered by unauthorised persons

 2018/06/28

JODI VON BUCHENRODER
Commissioner of Oaths (RSA) Chartered Accountant (SA)
Membership No. 20027061
4th Floor Pier Place, Heerengracht Street
Vereeniging, Cape Town 8001
Contact No: +27 21 418 3940

Please note that in terms of section 43(7) of the National Environmental Management Act, 1998, an appeal under section 43 of that Act will suspend the environmental authorisation or any provision or condition attached thereto. In the instance where an appeal is lodged, you may not commence with the activity until such time that the appeal is finalised.

For guidance on appeals submitted to the Minister in terms of NEMA and the SEMAs, please find a copy of the guideline on the administration of appeals on the Department's website: (https://www.environment.gov.za/documents/forms#legal_authorisations).

Yours faithfully




Mr Sabelo Malaza
Chief Director: Integrated Environmental Authorisations
Department of Environmental Affairs

Date: 18/06/2018

cc: Ms Jo-Anne Thomas	Savannah Environmental (Pty) Ltd	Email: joanne@savannahsa.com
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I the undersigned hereby certify that this is a true copy of the original exhibited to me and that there is no indication that the original document has been altered by unauthorised persons

 2018/06/28

JODI VON BUCHENRODER
Commissioner of Oaths (RSA) Chartered Accountant (SA)
Membership No. 20027061
14th Floor Pier Place, Heerengracht Street
Foreshore, Cape Town 8001
Contact No: +27 21 418 3940

I hereby certify that this is a true copy of the original exhibited to me and that there is no indication that the original document has been altered by unauthorised persons

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Membership No. 20027061
14th Floor Pier Place, Heerengracht Street
Foreshore, Cape Town 8001
Contact No: +27 21 418 3940

**APPENDIX 3
PROOF OF PAYMENT/ MOTIVATION FOR EXCLUSION**



Proof of Payment

Date: 19/06/2018 Time: 12:27:48 PM

Profile name:	*G7 RENEWABLE ENERGIES PTY LTD
Batch reference number:	662244202
Payment reference number:	000000001814838098
Payment date:	18/06/2018
Payment capture date:	18/06/2018
Payment authorise date and time:	18/06/2018 11:24:35 AM
From account name:	G7 Current
From account description:	G7 Current - 1087134110
From account statement description:	DEA EA amendment KB
Beneficiary account number:	1044240072
Beneficiary/ Recipient name:	DEA
Beneficiary statement description:	14 12 16 3 3 2 807
Branch code:	632005
Amount:	2,000.00
Real-time:	No

Additional comments by payer:

View your account to **confirm that you have received this payment.**

- All payments are subject to clearing rules.

Please refer to landing page for cut off times and telephone numbers.

**APPENDIX 4
LIST OF LAND OWNERS**

LANDOWNER CONTACT LIST

Farm Appelsfontein 201

Name of landowner if the person to whom the environmental authorisation has been issued is not the owner:	Standvastigheid Familie Trust		
Contact person:	Francois Daniel Conradie		
Postal address:	PO Box 137		
	Laingsburg		
	Postal code: 6900		
Telephone:	023-551-1817	Cell:	N/a
E-mail:	fdconradie@roggeveld.co.za	Fax:	N/a

Remainder of Ekkraal 199

Name of landowner if the person to whom the environmental authorisation has been issued is not the owner:	Pieter Jacobus Conradie		
Contact person:	Pieter Jacobus Conradie		
Postal address:	Boesperance Farm		
	Laingsburg		
	Postal code: 6900		
Telephone:	023-551-1711	Cell:	083-444-3965
E-mail:	N/a	Fax:	N/a

Portion 1 of Ekkraal 199

Name of landowner if the person to whom the environmental authorisation has been issued is not the owner:	Douglas Joseph Caldo		
Contact person:	Douglas Joseph Caldo		
Postal address:	PO Box 75		
	Laingsburg		

	Postal code: 6900		
Telephone:	023-004-0165	Cell:	N/a
E-mail:	ecalldo@telkomsa.net	Fax:	N/a

Portion 2 of Ekkraal 199

Name of landowner if the person to whom the environmental authorisation has been issued is not the owner:	Jacobus Steenkamp		
Contact person:	Jacobus Steenkamp		
Postal address:	PO Box 4		
	Laingsburg		
	Postal code: 6900		
Telephone:	021-903-8203	Cell:	082-573-9223
E-mail:	koosie@groenland.co.za	Fax:	N/a

Remainder of Karreebosch 200

Name of landowner if the person to whom the environmental authorisation has been issued is not the owner:	Wolwekop Trust		
Contact person:	Ockert Gerbrandt Conradie		
Postal address:	PO BOX 92		
	Laingsburg		
	Postal code: 6900		
Telephone:	023-551-1821	Cell:	082-292-4545
E-mail:	N/a	Fax:	N/a

Portion 1 Karreekloof 196

Name of landowner if the person to whom the environmental authorisation has been issued is not the owner:	Charl Gerhardus du Plessis		
Contact person:	Charl Gerhardus du Plessis		
Postal address:	PO Box 6		
	Laingsburg		
	Postal code: 6900		
Telephone:	023-551-1034	Cell:	N/a
E-mail:	marih@agric.pgwc.gov.za	Fax:	N/a

Remainder of Klipbanksfontein 198

Name of landowner if the person to whom the environmental authorisation has been issued is not the owner:	ADV Le Roux Familie Trust		
Contact person:	Esti le Roux		
Postal address:	PO Box 30		
	Laingsburg		
	Postal code: 6900		
Telephone:	023-004-0138	Cell:	084-513-1893
E-mail:	fortuin@roggeveld.co.za	Fax:	N/a

Portion 1 of Klipbanksfontein 198

Name of landowner if the person to whom the environmental authorisation has been issued is not the owner:	Daniel Jan Hendrik Conradie		
Contact person:	Daniel Jan Hendrik Conradie		
Postal address:	PO Box 36		
	Laingsburg		
	Postal code: 6900		

Telephone:	023-551-1094	Cell:	N/a
E-mail:	karoo@lavabit.com	Fax:	N/a

Farm Kranskraal 189

Name of landowner if the person to whom the environmental authorisation has been issued is not the owner:	Cloete Family Trust		
Contact person:	Karlo Cloete		
Postal address:	N/a		
	N/a		
	Postal code: N/a		
Telephone:	021-592-1342	Cell:	N/a
E-mail:	chromedent@iburst.co.za	Fax:	N/a

Farm Oude Huis 195

Name of landowner if the person to whom the environmental authorisation has been issued is not the owner:	Charl Gerhardus du Plessis		
Contact person:	Charl Gerhardus du Plessis		
Postal address:	PO Box 6		
	Laingsburg		
	Postal code: 6900		
Telephone:	023-551-1034	Cell:	N/a
E-mail:	marih@agric.pgwc.gov.za	Fax:	N/a

Farm Rietfontein 197

Name of landowner if the person to whom the environmental authorisation has been issued is not the owner:	JJ Le Roux Familie Trust		
Contact person:	Kobus le Roux		
Postal address:	PO Box 106		
	Laingsburg		
	Postal code: 6900		
Telephone:	023-004-0230	Cell:	084-512-7372
E-mail:	klipfontein@breede.co.za	Fax:	N/a

Farm Roode Wal 187

Name of landowner if the person to whom the environmental authorisation has been issued is not the owner:	Virginia Trust		
Contact person:	M.J (Rinus) Koorts		
Postal address:	PO Box 78		
	Prince Albert		
	Postal code: 6930		
Telephone:	023-541-1721	Cell:	N/a
E-mail:	N/a	Fax:	N/a

Portion 2 of Standvastigheid 210

Name of landowner if the person to whom the environmental authorisation has been issued is not the owner:	Eskom Holdings		
Contact person:	Henk Landman		
Postal address:	PO Box 222		
	Brackenfell		
	Postal code: 7561		
Telephone:	021-980-3412	Cell:	082-677-7505

E-mail:	henk.landman@eskom.co.za	Fax:	
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Remainder of Wilgebosch Rivier 188

Name of landowner if the person to whom the environmental authorisation has been issued is not the owner:	Johannes Breedt		
Contact person:	Johannes Breedt		
Postal address:	PO Box 49223, Hercules		
	Pretoria		
	Postal code: 0030		
Telephone:	012-346-2254	Cell:	082-825-6577
E-mail:	jbreedt@gpnet.net	Fax:	

Farm Aprils Kraal 105

Name of landowner if the person to whom the environmental authorisation has been issued is not the owner:	Douglas Joseph Calldo		
Contact person:	Douglas Joseph Calldo		
Postal address:	PO Box 75		
	Laingsburg		
	Postal code: 6900		
Telephone:	023-004-0165	Cell:	N/a
E-mail:	ecalldo@telkomsa.net	Fax:	N/a

Remainder of Bon Espirange 73

Name of landowner if the person to whom the environmental authorisation has been issued is not the owner:	Casparus Jan Steenkamp		
Contact person:	Casparus Jan Steenkamp		
Postal address:	PO Box 88		
	Sutherland		
	Postal code: 6920		
Telephone:	023-571-2715	Cell:	N/a
E-mail:	conradiebouers5@gmail.com	Fax:	N/a

Portion 1 of Bon Espirange 73

Name of landowner if the person to whom the environmental authorisation has been issued is not the owner:	Douglas Joseph Calldo		
Contact person:	Douglas Joseph Calldo		
Postal address:	PO Box 75		
	Laingsburg		
	Postal code: 6900		
Telephone:	023-004-0165	Cell:	N/a
E-mail:	ecalldo@telkomsa.net	Fax:	N/a

**APPENDIX 5
DECLARATION OF THE EAP**

I, _____, declare that –

- I act as the independent environmental assessment practitioner in this application;
- I have expertise in conducting environmental impact assessments, including knowledge of the Act, Regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, Regulations and all other applicable legislation;
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant;
- I will take into account, to the extent possible, the matters listed in Regulation 14 of the Regulations when preparing the application and any report relating to the application;
- I undertake to disclose to the applicant and the Competent Authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the Competent Authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the Competent Authority, unless access to that information is protected by law, in which case it will be indicated that such information exists and will be provided to the Competent Authority;
- I will perform all obligations as expected from an environmental assessment practitioner in terms of the Regulations; and
- I am aware of what constitutes an offence in terms of Regulation 48 and that a person convicted of an offence in terms of Regulation 48(1) is liable to the penalties as contemplated in Section 49B of the Act.

Disclosure of Vested Interest (delete whichever is not applicable)

- I do not have and will not have any vested interest (either business, financial, personal or other) in the proposed activity proceeding other than remuneration for work performed in terms of the Regulations;
- I have a vested interest in the proposed activity proceeding, such vested interest being:

Signature of the environmental assessment practitioner

Name of company:

Date

UNDERTAKING UNDER OATH/ AFFIRMATION

I, _____, swear under oath / affirm that all the information submitted or to be submitted for the purposes of this application is true and correct.

Signature of the environmental assessment practitioner

Name of company

Date

Signature of the commissioner of oaths

Date

APPENDIX 6
LIST OF LOCAL/PROVINCIAL AUTHORITY INVOLVED

List of Local/Provincial Authorities Involved

Provincial Environmental Authority:	Western Cape Department of Environmental Affairs and Development Planning		
Name of contact person:	Pieter Van Zyl		
Postal address:	Private Bag X9186, Cape Town, Western Cape		
Postal code:	8000	Cell:	084 264 2226
Telephone:	021 483 4790	Fax:	021 483 4185
E-mail:	Pieter.vanZyl@westerncape.gov.za		
Provincial Environmental Authority:	Northern Cape Department of Environment and Nature Conservation		
Name of contact person:	Bryan Fisher		
Postal address:	Private Bag X6010, Kimberley, Northern Cape		
Postal code:	8300	Cell:	083 270 8323
Telephone:	053 807 7431	Fax:	N/A
E-mail:	BFisher@ncpg.gov.za		
Local Municipality:	Karoo Hoogland Local Municipality		
Name of contact person in (Environmental Section)	Alistair Gibbons		
Postal address:	6 Jubilee Street, Sutherland, Northern Cape		
Postal code:	6920	Cell:	079 492 1307
Telephone:	023 571 1020	Fax:	086 669 6096
E-mail:	alistar.gibbons@gmail.com		
Local Municipality:	Laingsburg Local Municipality		
Name of contact person in (Environmental Section)	Pedro Williams		
Postal address:	Private Bag X4, Laingsburg, Western Cape		
Postal code:	6900	Cell:	082 710 8853
Telephone:	023 551 1019	Fax:	N/A
E-mail:	pawilliams@laingsburg.gov.za		

**APPENDIX 7
WRITTEN CONFIRMATION OF CHANGE IN DIRECTORS LETTER**

Karreebosch Wind Farm (Pty) Ltd
125 Buitengracht Street, 5th floor
Cape Town 8001, South Africa



Department of Environmental Affairs

Directorate: Integrated Environmental Authorisations
Environment House
473 Steve Biko Road
Arcadia
Pretoria
0001

To whom it may concern,

I, Dr Kilian Hagemann, the sole director of Karreebosch Wind Farm (Pty) Ltd with registration number: 2011/118863/07 hereby confirms that I assume full responsibility to implement and adhere to the conditions of the Environmental Authorisation dated 29 January 2016 with reference number 14/12/16/3/3/2/807/AM1 as issued by the Department of Environmental Affairs.

Your sincerely,

A handwritten signature in black ink, appearing to read "K. Hagemann", written over a horizontal line.

Killian Hagemann
Director
Karreebosch Wind Farm (Pty) Ltd