



forestry, fisheries & the environment

Department:
Forestry, Fisheries and the Environment
REPUBLIC OF SOUTH AFRICA

Private Bag X 447· PRETORIA ·0001· Environment House ·473 Steve Biko Road, Arcadia· PRETORIA

DFFE Reference: 14/12/16/3/3/1/2549

Enquiries: Ms Trisha Pillay

Telephone: (012) 399 9406 **E-mail:** tpillay@dfffe.gov.za

Mr David Peinke
Doornhoek PV (Pty) Ltd
101, 1st Floor, West Quay Building
7 West Quay Road
Waterfront
CAPE TOWN
8000

Telephone Number (021) 418 2596
E-mail Address: David@atlanticep.com

PER MAIL / EMAIL

Dear Mr Peinke

APPLICATION FOR ENVIRONMENTAL AUTHORISATION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, ACT NO. 107 OF 1998, AS AMENDED: FOR THE 50MW DOORNHOEK 2 PV FACILITY ON PORTION 18 OF THE FARM DOORNHOEK 372 IP WITHIN THE CITY OF MATLOSANA LOCAL MUNICIPALITY WITHIN THE DR KENNETH KAUNDA DISTRICT MUNICIPALITY IN THE NORTH WEST PROVINCE

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, as amended (the EIA Regulations), you are instructed to notify all registered interested and affected parties, in writing and within fourteen (14) days of the date of the decision, of the decision, as well as the provisions regarding the submission of appeals that are contained in the Regulations.

In terms of the Promotion of Administrative Justice Act, Act No. 3 of 2000, you are entitled to the right to fair, lawful and reasonable administrative action; and to written reasons for administrative action that affects you negatively. Further your attention is drawn to the provisions of the Protection of Personal Information Act, Act No. 4 of 2013 which stipulate that the Department should conduct itself in a responsible manner when collecting, processing, storing and sharing an individual or another entity's personal information by holding the Department accountable should the Department abuse or compromise your personal information in any way.

Your attention is drawn to Chapter 2 of National Environmental Management Act, Act No. 107 of 1998 National Appeal Regulations published under Government Notice R993 in Government Gazette No. 38303 dated 08 December 2014 (National Appeal Regulations, 2014), which prescribes the appeal procedure to be followed. Kindly include a copy of this document (National Appeal Regulations, 2014) with the letter of notification to interested and affected parties in this matter.

Should any person wish to lodge an appeal against this decision, he/she must submit the 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; or the date that the notification of the decision was sent to the applicant by the Department, whichever is applicable.

Appeals must be submitted in writing in the prescribed form to:

The Director: Appeals and Legal Review of this Department at the below mentioned addresses.

By email: appeals@dffe.gov.za;

By hand: Environment House
473 Steve Biko
Arcadia
Pretoria
0083; or

By post: Private Bag X447
Pretoria
0001

Please note that in terms of Section 43(7) of the National Environmental Management Act, Act No. 107 of 1998, as amended, the lodging of an appeal 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.

To obtain the prescribed appeal form and for guidance on the submission of appeals, please visit the Department's website at https://www.environment.gov.za/documents/forms#legal_authorisations or request a copy of the documents at appeals@dffe.gov.za.

Yours faithfully



Ms Millicent Solomons
Acting Chief Director: Integrated Environmental Authorisations
Department of Forestry, Fisheries and the Environment
Date: 06/09/2022.

cc:	Mr Dale Holder	Cape Environmental Assessment Practitioners (Cape EAPrac)	Email: dale@cape-eaprac.co.za
	Ouma Skosana	NW DEDEC&T	E-mail: oskosana@nwpp.gov.za
	Ms T Tsime	City of Matlosana district Municipality	Email: eacc@klerksdorp.org
	Mr A Khuzwayo	City of Matlosana district Municipality	Email: akhuzwayo@klerksdorp.org



forestry, fisheries & the environment

Department:
Forestry, Fisheries and the Environment
REPUBLIC OF SOUTH AFRICA

Environmental Authorisation

In terms of Regulation 25 of the Environmental Impact Assessment Regulations, 2014, as amended

**THE 50MW DOORNHOEK 2 PV FACILITY ON PORTION 18 OF THE FARM DOORNHOEK 372 IP WITHIN
THE CITY OF MATLOSANA LOCAL MUNICIPALITY IN THE NORTH WEST PROVINCE**

Dr Kenneth Kaunda District Municipality

Authorisation register number:	<i>14/12/16/3/3/1/2549</i>
Last amended:	<i>First issue</i>
Holder of authorisation:	<i>Doornhoek PV (Pty) Ltd</i>
Location of activity:	<i>Portion 18 of the Farm Doornhoek 372 IP, City of Matlosana Local Municipality, Dr Kenneth Kaunda District Municipality, North West Province</i>

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.

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, Act No. 107 of 1998, as amended and the EIA Regulations, 2014, as amended.

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, Act No. 107 of 1998, as amended and the Environmental Impact Assessment Regulations, 2014, as amended, the Department hereby authorises –

DOORNHOEK PV (PTY) LTD

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

with the following contact details –

Mr David Peinke
101, 1st Floor, West Quay Building
7 West Quay Road, Waterfront
CAPE TOWN
8000

Telephone Number: (021) 418 2596
Cell phone Number: (084) 401 9015
E-mail Address: David@atlanticep.com

to undertake the following activities (hereafter referred to as “the activity”) indicated in Listing Notice 1, 2 and Listing Notice 3 of the EIA Regulations, 2014 as amended:

Activity number	Activity description
<p><u>Listing Notice 1, Item 11:</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 facility includes MV cabling of up to 33kV as well onsite substations and an overhead powerline with a capacity of up to 132Kv.</p>
<p><u>Listing Notice 1, Item 24</u> <i>“The development of a road (ii) with reserve wider than 13,5 meters, or where no reserve exists where the road is wider than 8 meters.</i></p>	<p>The main access road to Doornhoek 2 PV will be up to 8m wide, but with the inclusion of side drains and gavel embankments will be up to 10m.</p>
<p><u>Listing Notice 1, Item 28</u> <i>“Residential, mixed, retail, commercial, industrial or institutional developments where such land was used for agriculture, game farming, equestrian purposes or afforestation on or after 1998 and where such development (ii) will occur outside an urban area, where the total land to be developed is bigger than 1 hectare.”</i></p>	<p>The Doornhoek 2 PV development is considered to be commercial use and the total footprint size is up to 80 hectares.</p>
<p><u>Listing Notice 1, Item 56</u> <i>“The widening of a road by more than 6 metres, or the lengthening of a road by more than 1 kilometre (ii) where no reserve exists, where the existing road is wider than 8 metres.”</i></p>	<p>The existing access road from the main road will be widened by more than 6m in some places to accommodate the required geometry for heavy vehicle turning.</p>
<p><u>Listing Notice 2, Item 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 photovoltaic solar facility will generate up to 50 megawatts electricity through the use of a renewable resource.</p>
<p><u>Listing Notice 2, Item 15:</u> <i>“The clearance of an area of 20 hectares or more of indigenous vegetation.”</i></p>	<p>The development footprint of the solar power plant will be up to 80 ha.</p>

<p><u>Listing Notice 3, Item 4</u></p> <p><i>“The development of a road wider than 4 metres with a reserve less than 13,5 metres.</i></p> <p><i>h. North West</i></p> <p><i>i. A protected area including municipal or provincial nature reserves as contemplated by NEMPAA or other legislation.</i></p> <p><i>iv. Critical biodiversity areas as identified in systematic biodiversity plans adopted by the competent authority.</i></p> <p><i>vi. Areas within 5 kilometres from protected areas identified in terms of NEMPAA or from a biosphere reserve.”</i></p>	<p>The main access road will have a maximum width of 10m while the internal roads will have a maximum width of 6m. Portions of the main access and internal roads fall within a CBA identified in the North West Province Biodiversity Sector Plan. Portion 18 of the Farm Doornhoek 372-IP is designated as a private nature reserve (Bosworth Private Nature Reserve) in the South African Protected Area Database. Portions of the main and internal roads are within 5Km of the Faan Meintjies Private Nature Reserve.</p>
<p><u>Listing Notice 3, Item 12</u></p> <p><i>“The clearance of an area of 300 square metres or more of indigenous vegetation.</i></p> <p><i>h. North West</i></p> <p><i>ii. A protected area including municipal and protected nature reserves as contemplated by NEMPAA or other legislation.</i></p> <p><i>iv. Critical biodiversity areas as identified in systematic biodiversity plans adopted by the competent authority.”</i></p>	<p>Portion 18 of the Farm Doornhoek 372-IP is designated as a private nature reserve (Bosworth Private Nature Reserve) in the South African Protected Area Database. The clearance of more than 300 square metres will occur within this farm portion. A portion of Doornhoek 2 PV falls within a CBA identified in the North West Province Biodiversity Sector Plan. Development of the facility in these areas will include the clearance of more than 300 square metres of indigenous vegetation.</p>
<p><u>Listing Notice 3, Item 18</u></p> <p><i>“The widening of a road by more than 4 metres, or the lengthening of a road by more than 1 kilometre.</i></p> <p><i>h. North West</i></p> <p><i>i. A protected area including municipal or provincial nature reserves as contemplated by NEMPAA or other legislation.</i></p> <p><i>ii. Areas within 5km from protected areas identified in terms of NEMPAA or a Biosphere Reserve.</i></p>	<p>Portion 18 of the Farm Doornhoek 372-IP is designated as a private nature reserve (Bosworth Private Nature Reserve) in the South African Protected Area Database. The widening of portions of the existing access road will be required on this farm portion. Portions of the main and internal roads are within 5 kilometres of the Faan Meintjies</p>

v. <i>Critical biodiversity areas as identified in systematic biodiversity plans adopted by the competent authority.</i> "	Private Nature Reserve. A portion of Doornhoek 2 PV falls within a CBA identified in the North West Province Biodiversity Sector Plan. The main access and some of the internal roads of Doornhoek 2 PV occur within this CBA.
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as described in the Basic Assessment Report (BAR) dated June 2022 at:

SG 21 Digit Code:

Farm Description	21 Digit Surveyor General Code
Portion 18 of the Farm Doornhoek 372 IP	C00900000000037200018

Coordinates: Solar Fields

Doornhoek 2 PV - South	Latitude	Longitude
North-West Corner	26° 43' 46.31"S	26° 38' 13.93"E
North-East Corner	26° 43' 43.35"S	26° 38' 49.98"E
South-West Corner	26° 44' 10.33"S	26° 38' 35.79"E
South-East Corner	26° 44' 10.42"S	26° 38' 47.97"E

Doornhoek 2 PV - North	Latitude	Longitude
North-West Corner	26° 43' 10.78"S	26° 38' 53.29"E
North-East Corner	26° 43' 08.72"S	26° 39' 01.94"E
South-West Corner	26° 43' 42.29"S	26° 38' 51.56"E
South-East Corner	26° 43' 42.81"S	26° 39' 04.47"E

Coordinates for the 132kV power line corridor:

Point	Latitude	Longitude
Start	26° 43' 42.91"S	26° 38' 25.98"E
Middle	26° 43' 42.94"S	26° 38' 23.84"E
End	26° 43' 42.93"S	26° 38' 23.03"E

Coordinates for the Access Road:

Access Road	Latitude	Longitude
Start	26° 43' 43.47"S	26° 39' 06.01"E
Middle	26° 43' 43.15"S	26° 38' 45.54"E
End	26° 43' 44.46"S	26° 38' 26.71"E

Coordinates for the substations:

Substations	Latitude	Longitude
Doornhoek 2 PV Eskom Substation	26° 43' 42.91"S	26° 38' 25.98"E
Doornhoek 2 PV IPP Substation	26° 43' 43.45"S	26° 38' 28.15"E

Coordinates for the Additional Infrastructure:

Additional Infrastructure	Latitude	Longitude
Laydown Area	26° 43' 46.51"S	26° 38' 31.53"E
BESS Area	26° 43' 46.51"S	26° 38' 31.53"E
Auxiliary Buildings.	26° 43' 46.24"S	26° 38' 36.42"S

-for the 50MW Doornhoek 2 PV Facility on Portion 18 of the Farm Doornhoek 372 IP within the City of Matlosana Local Municipality within the Dr Kenneth Kaunda District Municipality in the North West Province, hereafter referred to as "the property".

The project will include the following:

- Doornhoek 2 PV will have a net generating capacity of up to 50MW with a maximum footprint of 80ha.
- PV modules and mounting structures
 - Maximum height of ~2.5 m above the ground
- Inverters and transformers
- Battery Energy Storage System (BESS)
 - Area: up to ± 4 ha
 - Technology: solid-state/ non-liquid type batteries.
- Site and internal access roads (up to 8m wide)
- Operation and Maintenance buildings including a gate house and security building, control centre, offices, warehouses and workshops for storage and maintenance.
- Temporary and permanent laydown area
- Grid connection infrastructure, including:

- 33kV cabling between the project components and the facility substation
- A 132kV facility substation
- A 132kV Eskom switching station
- A Loop-in-Loop out (LILO) overhead 132kV power line between the Eskom switching station and the existing Watershed–Klerksdorp 1 132kV power line.

Technical details for the proposed PV facility

Component	Description / dimensions
Height of PV panels	Solar panels with a maximum height of 2.5 m above the ground
Capacity of on-site sub- and switching station	Capacity: 132kV Size of the substation/switching station: 1ha (this includes the IPP substation and the Eskom switching station). The substation will have switchgear portals up to 15m in height and possible lightning masts up to 25m in height. The facility substation will collect the power from the facility and transform it from medium voltage (up to 33 kV) to high voltage (up to 132 kV). Each facility will require inverter-stations, transformers, switchgear, and internal electrical reticulation (underground cabling).
Power line	Capacity: 132 kV Length: ~200m Pylon type: Monopole structures Pylon height: 12m -35m Number of pylons: 4 -6 Pylon Spacing: ~50m - 125m Servitude: 31 m (i.e., 15.5 m on either side measured from the centre line of the powerline)
Area occupied by both permanent and construction laydown areas	Permanent Laydown Area: ~1ha Construction Laydown Area: ~5ha
Battery energy storage facility	Area: ~4 ha

	Technology: solid-state/ non-liquid type batteries.
Access Roads	The access roads will not exceed 8 m in width for the wearing course. The total width including all stormwater management structures will not exceed 10 m wide. Most of the access road will comprise expansion of sections of existing farm roads, while a small section will comprise sections of a new road.
Internal roads	A network of gravel internal access roads and perimeter roads with a width of ~6m, will be constructed to provide access to the various components of each facility.
Additional Infrastructure	Auxiliary buildings of approximately 1 ha, including a gate house and security building, control centre, offices, warehouses and workshops for storage and maintenance. Rainwater tanks and electrified perimeter fencing not exceeding 5m in height.

Conditions of this Environmental Authorisation

Scope of authorisation

1. The development of a 50MW Doornhoek 2 PV Facility on Portion 18 of the Farm Doornhoek 372 IP within the City of Matlosana Local Municipality within the Dr Kenneth Kaunda District Municipality in the North West Province and the 132kV powerline, and associated infrastructure as described above, are hereby approved as per the geographic coordinates cited in the table above.
2. 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.
3. 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.
4. The activities authorised may only be carried out at the property as described above.

5. 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.
6. 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.
7. This activity must commence within a period of ten (10) 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.
8. Construction must be completed within five (05) years of the commencement of the activity on site.
9. Commencement with one activity listed in terms of this environmental authorisation constitutes commencement of all authorised activities.

Notification of authorisation and right to appeal

10. 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.
11. The notification referred to must –
 - 11.1. specify the date on which the authorisation was issued;
 - 11.2. inform the interested and affected party of the appeal procedure provided for in the National Appeal Regulations, 2014;
 - 11.3. advise the interested and affected party that a copy of the authorisation will be furnished on request; and
 - 11.4. give the reasons of the Competent Authority for the decision.

Commencement of the activity

12. The authorised activity shall not commence until the period for the submission of appeals has lapsed as per the National Appeal Regulations, 2014, and no appeal has been lodged against the decision. In terms of Section 43(7), an appeal under Section 43 of the National Environmental Management Act, Act No.

107 of 1998, as amended 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.

Management of the activity

13. A final site layout plan for the PV facility, as determined by the detailed engineering phase and micro-siting, and all mitigation measures as dictated by the final site layout plan, must be submitted to the Department for approval prior to construction. A copy of the final site layout map must be made available for comments to registered Interested and Affected Parties and the holder of this environmental authorisation 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. All available biodiversity information must be used in the finalisation of the layout map. Existing infrastructure must be used as far as possible e.g., roads. The layout map must indicate the following:
 - 13.1. The position of the solar PV panels;
 - 13.2. The finalised access route;
 - 13.3. The on-site and/or switching substation;
 - 13.4. The specific position of the powerline route, with pylon structures and foundation footprints;
 - 13.5. The position of the Battery Energy Storage Facility;
 - 13.6. All associated infrastructure;
 - 13.7. All sensitive features; and
 - 13.8. All “no-go” and buffer areas.
14. The Generic Environmental Management Programme (EMPr) for the overhead electricity transmission and distribution infrastructure submitted as part of the BAR is approved. The final microsited and pegged powerline route layout plan must be appended to Part B of the generic EMPr.
15. The generic Environmental Management Programme (EMPr) for the substation, submitted as part of the final BAR dated June 2022, is approved. The final site layout plan of the on-site and/or switching substation, must be appended to Part B of the generic EMPr.
16. An Alien Invasive Plant Species Management Plan and Rehabilitation Plan must be developed and submitted as part of the Environmental Management Programme (EMPr) to mitigate habitat degradation due to erosion and alien plant invasion.
17. An additional pre-construction 2-3 days avifaunal survey conducted during the peak wet season, must be undertaken for the proposed development and form part of the EMPr submitted to the Department for approval.

18. The Environmental Management Programme (EMPr) for the PV facility, submitted as part of the EMPr is not approved and must be amended to include measures, 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 to registered Interested and Affected Parties 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.
19. The EMPr amendment must include the following:
 - 19.1. An Alien Invasive Plant Species Management Plan and Rehabilitation Plan;
 - 19.2. The requirements and conditions of this environmental authorisation;
 - 19.3. All recommendations and mitigation measures recorded in the BAR and the specialist reports as included in the final BAR dated June 2022;
 - 19.4. The additional pre-construction 2-3 days avifaunal survey undertaken within the peak wet season.
 - 19.5. 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. This plan must ensure to include drainage features that will be infilled and or excavated;
 - 19.6. 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;
 - 19.7. 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. This plan must ensure to include drainage features that will be infilled and or excavated;
and
 - 19.8. The final site layout map.
20. Once approved, the EMPr must be implemented and strictly enforced during all phases of the project. It shall be seen as a dynamic document and shall be included in all contract documentation for all phases of the development when approved.
21. Changes to the approved EMPr must be submitted in accordance with the EIA Regulations applicable at the time.

22. The Department reserves the right to amend the approved EMPr should any impacts that were not anticipated or covered in the BAR be discovered.

Frequency and process of updating the EMPr

23. The EMPr must be updated where the findings of the environmental audit reports, contemplated in Condition 29 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.
24. The updated EMPr must contain recommendations to rectify the shortcomings identified in the environmental audit report.
25. The updated EMPr must be submitted to the Department for approval together with the environmental audit report, as per Regulation 34 of the EIA Regulations, 2014 as amended. 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.
26. 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 the EIA Regulations, 2014 as amended. 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.
27. The holder of the authorisation must apply for an amendment of an EMPr, if such amendment is required before an audit is required. The amendment process is prescribed in Regulation 37 of the EIA Regulations, 2014, as amended. The holder of the authorisation must request comments on the proposed amendments to the impact management outcomes of the EMPr or amendments to the closure objectives of the closure plan from potentially interested and affected parties, including the competent authority, by using any of the methods provided for in the Act for a period of at least 30 days.

Monitoring

28. The holder of the authorisation must appoint an experienced Environmental Control Officer (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.

28.1. The ECO must be appointed before commencement of any authorised activities.

- 28.2. Once appointed, the name and contact details of the ECO must be submitted to the *Director: Compliance Monitoring* of the Department.
- 28.3. The ECO must keep record of all activities on site, problems identified, transgressions noted and a task schedule of tasks undertaken by the ECO.
- 28.4. 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

29. 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 at Directorcompliance@dffe.gov.za.
30. 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 at Directorcompliance@dffe.gov.za.
31. 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 the EIA Regulations, 2014 as amended.
32. The holder of the authorisation must, in addition, submit an environmental audit report 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.
33. The environmental audit reports must be compiled in accordance with Appendix 7 of the EIA Regulations, 2014 as amended 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.
34. 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

35. 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

36. 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

37. 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.

Specific conditions

38. Following the final design of Doornhoek 2 PV facility and the route of the 200m overhead powerline, a final layout must be submitted to the Department of Forestry Fisheries and Environment for review and approval prior to commencing with construction.
39. An additional pre-construction avifaunal survey must be performed over a minimum of 2-3 days. The survey must coincide with the peak wet season when most of the drainage lines and wetland features in the wider study region are inundated. The information obtained during this survey must be used to inform the EMPr submitted for approval.
40. The footprint of the development must be limited to the areas required for actual construction works and operational activities.
41. The EMPr must be amended to include a layout plan of the final pylon positions, an Alien Invasive Plant Species Management Plan and Rehabilitation Plan, and the additional pre-construction avifaunal survey.
42. The applicant must consult with the avifaunal specialist regarding the positions and designs of bird perching/nesting deterrents and power line markers.
43. Suitable bird repelling structures and anti-collision devices such as bird flappers must be considered to avoid collision of birds with the PV facility and powerline.
44. Monitoring of implementation of mitigation controls, along with reporting, must be undertaken at least quarterly throughout the construction phase (to include the peak wet season), and bi-annually during the operational phase. Monitoring, at the minimum, should consist of:

- 44.1. Quarterly monitoring of the PV array area for evidence of PV collisions.
- 44.2. Quarterly monitoring of power line route for evidence of collisions or electrocutions.
- 44.3. Bi-annual monitoring of the resident avifaunal population, including priority species, to compare the impacts to the baseline avifaunal community description in this report.
45. The near-intact Endangered Vaal-Vet Sandy Grassland must be treated as a “no-go” area and appropriately demarcated as such. No vehicles, machinery, personnel, construction material, fuel, oil, bitumen or waste must be allowed into this area.
46. The height of the PV panels must be restricted to 2.5m above ground level.
47. A row of trees around the Stone House complex must be planted as a windbreak (every 5m) to retain the local landscape character of the old farm complex.
48. A 150m buffer must be applied around the small hill (as displayed on Figure 17: Physiographic Rating Units identified within the defined study area in the Visual Impact Assessment) due to ridgeline prominence and should be retained as a “no-go” area. No vehicles, machinery, personnel, construction material, fuel, oil, bitumen or waste must be allowed into this area.
49. A 50m buffer must be applied around the PV boundaries (as displayed on Figure 17: Physiographic Rating Units identified within the defined study area in the Visual Impact Assessment). All existing trees within the 50m boundary buffer area must be retained, as well as the outer rows of the gum-tree windbreaks.
50. Thornveld trees surrounding the proposed PV sites must be retained for visual screening. Young thornveld trees that will be removed from the PV development area need to be relocated to the buffer area such that there are trees spaced every 20m along the boundary buffer.
51. Preconstruction walk-through of the approved development footprint must be undertaken to ensure that sensitive habitats and species are avoided where possible.
52. A Search and rescue plan must be developed for any TOPs or species of conservation concern that have the likelihood of occurring in the study area. This plan will need to be updated once the pre-construction walk-through referred to above has been completed.
53. Final walk-through to locate Species of Conservation Concern that can be trans-located or avoided must be undertaken with an experienced and qualified ecologist.
54. Permits from relevant authorities must be obtained for the removal or disturbance of any TOPs, Red Data listed or nationally protected species.
55. Should archaeologically sites or graves be exposed during construction work, it must immediately be reported to a heritage practitioner so that an investigation and evaluation of the finds can be made.
56. The ECO must monitor all substantial surface clearance operations and excavations into sedimentary rocks for fossil remains on an on-going basis during the construction phase.

57. Construction must include 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.
58. An integrated waste management approach must be implemented that is based on waste minimisation and must incorporate reduction, recycling, re-use and disposal where appropriate. Any solid waste must be disposed of at a landfill licensed in terms of Section 20 (b) of the National Environment Management Waste Act, 2008 (Act No.59 of 2008).

General

59. The recommendations of the EAP in the BAR dated June 2022 and the specialist studies attached must be adhered to. In the event of any conflicting mitigation measures and conditions of the Environmental Authorisation, the specific condition of this Environmental Authorisation will take preference.
60. A copy of this Environmental Authorisation, the audit and compliance monitoring reports, and the approved EMPr, must be made available for inspection and copying-
- 60.1. at the site of the authorised activity;
 - 60.2. to anyone on request; and
 - 60.3. where the holder of the Environmental Authorisation has a website, on such publicly accessible website.
61. 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: 06/09/2022.



Ms Millicent Solomons

**Acting Chief Director: Integrated Environmental Authorisations
Department of Forestry, Fisheries and the Environment**

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 16 May 2022.
- b) The information contained in the BAR dated June 2022.
- c) The comments received from the DFFE: Biodiversity Conservation Directorate and DFFE: Protected Areas Directorate and Interested and Affected Parties as included in the BAR dated June 2022.
- d) Mitigation measures as proposed in the BAR and the EMPr dated June 2022.
- e) The information contained in the specialist studies contained within the appendices of the BAR dated June 2022 and as appears below:

Title	Prepared by	Name of Specialist	Date issued
Ecological Impact Assessment	Biodiversity Africa	T Martin A Jackson	April 2022
Freshwater Ecosystem Impact and Compliance Statement	Scientific Aquatic Services (SAS)	A Mileson	April 2022
Avifauna Baseline and Impact Assessment Report	Pachnoda Consulting CC	L Niemand	April 2022
Agricultural Compliance Statement	Johann Lanz- Soil Scientist	J Lanz	April 2022
Heritage Impact Assessment	Beyond Heritage	J van der Walt	April 2022
Paleontological Impact Assessment	Beyond Heritage	Prof. Marion Bamford	April 2022
Visual Impact Assessment Report	Visual Resource Management Africa CC	S Stead	April 2022
Social Impact Assessment	Savannah Environmental (Pty) Ltd	N Bulunga	April 2022

Traffic Impact Assessment	BVi Consulting Engineers Western Cape (Pty) Ltd	L Petersen	April 2022
Stormwater, Wastewater and Erosion Management Plan	SRK Consulting	D.Barends X.Adams	April 2022

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) The findings of all the specialist studies conducted and their recommended mitigation measures.
- b) The need for the proposed project stems from the provision of electricity to the national grid.
- c) The BAR dated June 2022 identified all legislation and guidelines that have been considered in the preparation of the BAR.
- d) The location of the proposed project within the Klerksdorp Renewable Energy Development Zones (REDZ).
- e) The methodology used in assessing the potential impacts identified in the BAR dated June 2022 and the specialist studies have been adequately indicated.
- f) A sufficient public participation process was undertaken, and the applicant has satisfied the minimum requirements as prescribed in the EIA Regulations, 2014 as amended 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 BAR dated June 2022 and sufficient assessment of the key identified issues and impacts have been completed.
- b) The procedure followed for impact assessment is adequate for the decision-making process.
- c) The information contained in the BAR dated June 2022 is deemed to be accurate and credible.
- d) The proposed mitigation of impacts identified and assessed adequately curtails the identified impacts.
- e) EMPr measures for the pre-construction, construction and rehabilitation phases of the development were proposed and included in the BAR and will be implemented to manage the identified environmental impacts during the construction phase.

In view of the above, the Department is satisfied that, subject to compliance with the conditions contained in the environmental authorisation, the authorised activities 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 authorised activities can be mitigated to acceptable levels. The environmental authorisation is accordingly granted.



forestry, fisheries & the environment

Department:
Forestry, Fisheries and the Environment
REPUBLIC OF SOUTH AFRICA

Private Bag X447 PRETORIA 0001 Environment House - 473 Steve Biko Road, Arcadia- PRETORIA
Tel(+27 12) 389 9000

Enquiries: Devinagie Bendeman Telephone: 012 399 9337 E-mail: vbendeman@dffe.gov.za

Ms. Milicent Solomons
Director: Prioritized Infrastructure Projects

Dear Mrs Solomons

APPOINTMENT AS ACTING CHIEF DIRECTOR: INTEGRATED ENVIRONMENTAL AUTHORIZATIONS FOR THE PERIOD OF 25 APRIL 2022 UNTIL 31 OCTOBER 2022

I hereby inform you that I have decided to appoint you as the Acting Chief Director: Integrated Environmental Authorizations for the period of 25 April to 31 October 2022 whilst Mr Sabelo Malaza is fulfilling his temporary reassignment function at the Forestry Branch.

All the correspondence and other documents that are usually signed by the Chief Director: Integrated Environmental Authorizations must be signed under Acting Chief Director: Integrated Environmental Authorizations during the above-mentioned period.

Your appointment in the above acting position remains subject to the provisions of the Public Service Act, 1994 (Proclamation No. 103 of 1994), as amended, the Government Employees Pension Fund Act, 1996 (Proclamation No. 21 of 1996), the regulations promulgated under these Acts and relevant circulars.

In the execution of your duties and the exercising of the powers delegated to you, you will furthermore be subjected to the provisions of the Public Finance Management Act, compliance with the Promotion of Access to Information Act, Promotion of Administrative Justice Act, the Minimum Information Security Standard, Departmental Policies and other applicable legislations with the Republic of South Africa. You are therefore advised to make yourself familiar with the provisions of these legislations and policies and the amendments thereof. (Copies of Departmental policies can be obtained from the Human Resource Office).

Please accept my heartfelt gratitude for all your assistance on behalf of the department.

Yours sincerely

Ms Devinagie Bendeman
Deputy Director-General: RCSM (Regulatory Compliance and
Sector Monitoring)

Date 20 April 2022

ACKNOWLEDGEMENT

I ACCEPT / ~~DO NOT ACCEPT~~
appointment as Acting Chief
Director: Integrated Environmental
Authorizations

Signed:

Date:

20/04/2022