



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: 14/12/16/3/3/2/2084

Enquiries: Ms Makhosazane Yeni

Telephone: (012) 399 9400 **E-mail:** MYeni@environment.gov.za

Mr Dick Berlijn
Lerato Solar Power Plant (RF) (Pty) Ltd
P O Box 785553
SANDTON
2146

Telephone Number: (011) 500 3680
Email Address: berlijn@subsolar.co.za
Cell phone Number: 074 248 8488

PER MAIL / E-MAIL

Dear Mr Berlijn

APPLICATION FOR ENVIRONMENTAL AUTHORISATION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, ACT NO. 107 OF 1998, AS AMENDED: FOR THE PROPOSED DEVELOPMENT OF 150MW LERATO PHOTOVOLTAIC SOLAR ENERGY FACILITY AND ASSOCIATED INFRASTRUCTURE ON PORTION 4 OF THE FARM HOUTHAAALDOORNS 2, PORTION 2 OF ZAMENSKOMST 4, PORTION 10 AND REMAINING EXTENT OF PORTION 1 OF LICHTENBURG TOWN AND TOWNLANDS 27, PORTIONS 23 AND 25 OF HOUTHAAALBOOMEN 31 AND REMAINING EXTENT OF THE FARM PRIEM 30, REGISTRATION DIVISION IP SITUATED WITHIN THE DITSBOTLA LOCAL 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 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 stipulates 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 abuses or compromises your personal information in any way.

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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 prescribe 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@environment.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@environment.gov.za.

Yours faithfully


Mr Sabelo Malaza
Chief Director: Integrated Environmental Authorisations
Department of Forestry, Fisheries and the Environment

Date: 29/04/2022

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|-----|----------------------------------|--|---|--|
| cc: | Ms Lisa Opperman Ouma Skosana | Environamics CC North-West Department of Economic Development, Environment, Conservation and Tourism | Cell: 084 920 3111 Tel: 018 389 5156 | E-mail: lisa@environamics.co.za E-mail: oskosana@nwag.gov.za |
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DFFE reference: 14/12/16/3/3/2/2084

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Environmental Authorisation for the construction and operation of a 150mw Lerato Photovoltaic Solar Energy Facility and associated infrastructure on Portion 4 of the farm Houthaaldoors 2, Portion 2 of Zamenskomst 4, Portion 10 and Remaining Extent of Portion 1 of Lichtenburg Town and Townlands 27, Portions 23 and 25 of Houthaalboomen 31 and Remaining Extent of the Farm Priem 30, Registration Division IP situated within the Ditsobotla Local Municipality in the North West Province

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| | Mr Mogapane Abel Metswamere | Ditsobotla Local Municipality | Tel: 018 633 3800 | E-mail: records@gmail.com |
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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 development of a 150MW Lerato Photovoltaic Solar Energy Facility and associated infrastructure on the Portion 4 of the farm Houthaaldoors 2, Portion 2 of Zamenskomst 4, Portion 10 and Remaining Extent of Portion 1 of Lichtenburg Town and Townlands 27, Portions 23 and 25 of Houthaalboomen 31 and Remaining Extent of the Farm Priem 30, Registration Division IP situated within the Ditsobotla Local Municipality in the North West Province

Ngaka Modiri Molema District Municipality

| | |
|---------------------------------------|--|
| Authorisation register number: | 14/12/16/3/3/2/2084 |
| Last amended: | First issue |
| Holder of authorisation: | Lerato Solar Power Plant (RF) (Pty) Ltd. |
| Location of activity: | <i>Within Portion 4 of the farm Houthaaldoors 2, Portion 2 of Zamenskomst 4, Portion 10 and Remaining Extent of Portion 1 of Lichtenburg Town and Townlands 27, Portions 23 and 25 of Houthaalboomen 31 and Remaining Extent of the Farm Priem 30, Registration Division IP situated within the Ditsobotla Local Municipality in the 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.

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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, 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 –

LERATO SOLAR POWER PLANT (RF) (PTY) LTD

with the following contact details –

Mr Dick Berlijn

Lerato Solar Power Plant (RF) (Pty) Ltd

P O Box 785553

SANDTON

2146

Telephone Number: (011) 500 3680

Email Address: berlijn@subsolar.co.za

Cell phone Number: 074 248 8488

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

| Activity number | Activity description |
|---|---|
| <p><u>Listing Notice 1, Item 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 proposed photovoltaic solar facility will transmit and distribute electricity of 132 kilovolts outside an urban area. The infrastructure for the distribution of electricity will include a power line (132kV), an on-site HV/MV substation. For the preferred power line corridor that will be constructed is ~8.17km long and 100m wide corridor. It is expected that generation from the facility will tie in with the Eskom Watershed 275/132/88 MTS Substation.</p> |
| <p><u>Listing Notice 1, Item 24(ii)</u> 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</p> | <p>Activity 24(ii) is triggered as the perimeter roads of the solar power plant will be 12 meters in width, located along the fence of the facility. No road reserve will be associated with these roads. The total length of the perimeter roads will be 7.5km.</p> <p>The internal roads are less than 8 metres wide.</p> |
| <p><u>Listing Notice 1, Item 28(ii)</u> Residential, mixed, retail, commercial, industrial, or institutional developments where such land was used for agriculture 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.</p> | <p>Portions of the affected farm has been previously used for grazing and the property will be re-zoned to "special" use. The development footprint of the solar power plant will be 270ha in extent, to be placed within the assessed 300ha.</p> |
| <p><u>Listing Notice 1, Item 56(ii)</u> 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...</p> | <p>Activity 56 (ii) is triggered as the existing access road (just over 8 meters wide) to the affected property will be widened by 8 metres to cater for the construction phase traffic requirements. No reserve is / will be associated</p> |

| | |
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| | with this road. The total length of the road that needs to be widened will be 500m. |
| <p><u>Listing Notice 2, Item 1</u></p> <p>The development of facilities or infrastructure for the generation of electricity from a renewable resource where the electricity output is 20 megawatts or more.</p> | The proposed photovoltaic solar facility will generate up to 150 megawatts electricity using a renewable resource. |
| <p><u>Listing Notice 2, Item 15</u></p> <p>The clearance of an area of 20 hectares or more of indigenous vegetation</p> | In terms of vegetation type, the preferred site falls within the Carletonville Dolomite Grassland which is described by Mucina and Rutherford (2006) as 'vulnerable'. Activity 15 is triggered since portions of the site has not been lawfully disturbed during the preceding ten years; therefore, more than 20 hectares of indigenous vegetation will be removed. The development footprint of the solar power plant will be 270ha in extent, to be placed within the assessed 300ha. |
| <p><u>Listing Notice 3, Item 4(h)(iv)</u></p> <p>The development of a road wider than 4m with a reserve less than 13.5m.</p> <p>h. in the North-West within</p> <p>(iv) Critical biodiversity areas as identified in systematic biodiversity plans adopted by the competent authority.</p> | The proposed development is in the North-West province and portions of the service road for the proposed power line route (option 1) will cross over CBA2. The service roads will not have a reserve and will vary between 4 and 5 meters in width. |
| <p><u>Listing Notice 3, Item 12(h)(iv)</u></p> <p>The clearance of an area of 300m² or more of indigenous vegetation...</p> <p>(h) in the North-West,</p> <p>(iv) Within critical biodiversity areas identified in systematic biodiversity plans adopted by the competent authority.</p> | The proposed development is in the North-West province. Portions of the power line route cross over CBA2 (option 1). It is expected that approximately 10 000 square metres of indigenous vegetation will need to be removed as part of the linear activities associated with the power line (option 1). |

as described in the Environmental Impact Assessment Report (EIAR) dated 14 December 2021 at:

Solar Power Plant

Farm Houthaaldoorns 2 (Portion 4)

Power Line

Portion 4 of the farm Houthaaldoorns 2,

Portion 2 of Zamenskomst 4,

Portion 10 and Remaining Extent of Portion 1 of Lichtenburg Town and Townlands 27,

Portions 23 and 25 of Houthaalboomen 31; and

Remaining Extent of the Farm Priem 30.

| SG 21 Code: Lerato SPP | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T | 0 | I | P | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 4 |
| SG 21 Code: Preferred Power line (Option 1) for the Lerato SPP | | | | | | | | | | | | | | | | | | | |
| T | 0 | I | P | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 4 |
| T | 0 | I | P | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 2 |
| T | 0 | I | P | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 2 | 3 |
| T | 0 | I | P | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 7 | 0 | 0 | 0 | 1 | 0 |
| T | 0 | I | P | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 7 | 0 | 0 | 0 | 0 | 1 |
| T | 0 | I | P | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| T | 0 | I | P | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 2 | 5 |

| Project EIA Footprint Coordinates | | |
|--|---------------------|----------------------|
| Coordinates | Latitude (S) | Longitude (E) |
| A | 26° 1'13.07"S | 26° 7'4.49"E |
| B | 26° 0'27.65"S | 26° 6'54.94"E |
| C | 26° 0'27.82"S | 26° 5'34.62"E |
| D | 26° 0'37.40"S | 26° 5'36.02"E |
| E | 26° 5'36.02"E | 26° 5'53.01"E |

| BESS coordinates: | | |
|--------------------------|-----------------|------------------|
| Point | Latitude | Longitude |
| A | 26° 1'5.97"S | 26° 6'5.08"E |
| B | 26° 1'6.01"S | 26° 6'12.26"E |
| C | 26° 1'12.47"S | 26° 6'12.18"E |
| D | 26° 1'12.44"S | 26° 6'5.03"E |

| Onsite Facility Substation Footprint Coordinates: | | |
|--|-----------------|------------------|
| Point | Latitude | Longitude |
| A | 26° 1'9.34"S | 26° 6'0.42"E |
| B | 26° 1'9.37"S | 26° 6'4.01"E |
| C | 26° 1'12.60"S | 26° 6'4.01"E |
| D | 26° 1'12.57"S | 26° 6'0.43"E |

| Connection Line Coordinates (Step-up Substation – Collector Substation): | | |
|---|-----------------|------------------|
| Point | Latitude | Longitude |
| 1 | 26° 1'11.12"S | 26° 6'0.42"E |
| 2 | 26° 1'12.16"S | 26° 5'56.98"E |
| 3 | 26° 2'38.67"S | 26° 6'39.18"E |
| 4 | 26° 2'36.70"S | 26° 6'43.80"E |

| Collector Substation Footprint Coordinates: | | |
|--|-----------------|------------------|
| Point | Latitude | Longitude |
| A | 26° 2'32.72"S | 26° 6'46.93"E |
| B | 26° 2'36.90"S | 26° 6'49.34"E |
| C | 26° 2'38.97"S | 26° 6'44.87"E |
| D | 26° 2'34.55"S | 26° 6'42.48"E |

| Option 1- Preferred line corridor coordinates | | |
|--|---------------------|----------------------|
| Coordinates | Latitude (S) | Longitude (E) |
| 1 | 26° 2'33.58"S | 26° 6'44.90"E |
| 2 | 26° 2'18.09"S | 26° 7'21.45"E |
| 3 | 26° 3'8.16"S | 26° 7'31.99"E |

| | | |
|----|---------------|---------------|
| 4 | 26° 3'8.98"S | 26° 7'33.87"E |
| 5 | 26° 5'15.87"S | 26° 8'29.89"E |
| 6 | 26° 5'14.05"S | 26° 8'38.61"E |
| 7 | 26° 5'20.19"S | 26° 8'51.72"E |
| 8 | 26° 5'30.52"S | 26° 8'50.36"E |
| 9 | 26° 5'39.18"S | 26° 8'45.62"E |
| 10 | 26° 5'29.05"S | 26° 8'26.18"E |
| 11 | 26° 5'18.73"S | 26° 8'25.53"E |
| 12 | 26° 3'15.41"S | 26° 7'30.07"E |
| 13 | 26° 3'10.19"S | 26° 7'28.89"E |
| 14 | 26° 3'8.89"S | 26° 7'27.08"E |
| 15 | 26° 2'25.81"S | 26° 7'18.04"E |
| 16 | 26° 2'39.19"S | 26° 6'47.62"E |

- for proposed development of a 150MW Lerato Photovoltaic Solar Energy Facility and associated infrastructure on Portion 4 of the farm Houthaaldooms 2, Portion 2 of Zamenskomst 4, Portion 10 and Remaining Extent of Portion 1 of Lichtenburg Town and Townlands 27, Portions 23 and 25 of Houthaalboomen 31 and Remaining Extent of the Farm Priem 30, Registration Division IP situated within the Ditsobotla Local Municipality in the Northwest Province, hereafter referred to as "the property".

The key components of the proposed project are described below:

- PV Panel Array:
To produce up to 150MW, the proposed facility will require numerous linked cells placed behind a protective glass sheet to form a panel. Multiple panels will be required to form the solar PV arrays which will comprise the PV facility. The PV panels will be tilted at a northern angle to capture the most sun.
- Wiring to Central Inverters:
Sections of the PV array will be wired to central inverters. The inverter is a pulse width mode inverter that converts direct current (DC) electricity to alternating current (AC) electricity at grid frequency.
- Connection to the grid:
Connecting the array to the electrical grid requires transformation of the voltage from 480V to 33kV to 132kV. The normal components and dimensions of a distribution rated electrical substation will be required. Output voltage from the inverter is 480V and this will be fed into step up transformers to 132kV. An onsite substation will be required on the site to step the voltage up to 132kV, after which the power will

be evacuated into the national grid via the proposed new power line. The Project will inject up to 100MW into the National Grid. The installed capacity will be approximately 150MW.

- A grid connection corridor, with a width of ~100m and up to 150m, for the placement of the power line. The corridor is located to the east of the Solar Power Plant (SPP) site and is ~8.17km in length.
- Electrical reticulation network:
An internal electrical reticulation network will be required and will be laid ~2-4m underground.
- Supporting Infrastructure – The following auxiliary buildings with basic services including water and electricity will be required on site:
 - Office (~200m²)
 - Switch gear and relay room (~400m²);
 - Staff lockers and changing room (~200m²); and
 - Security control (~60m²)
- Battery Energy Storage System:
Up to 500 MW Battery Storage Facility with a maximum height of 8m and a maximum volume of 1740 m³ of batteries and associated operational, safety and control infrastructure.
- Roads:
Access will be obtained via the R505 Regional Route onto a proposed new gravel access road situated adjacent the development footprint where direct access will be obtained to the facility. An internal site road network will also be required to provide access to the solar field and associated infrastructure. The access and internal roads will be constructed within a 25-meter corridor.
- Fencing:
For health, safety and security reasons, the facility will be required to be fenced off from the surrounding properties. Fencing with a height of 2.5 meters will be used.

Technical details of the proposed Lerato Solar Power Plant:

| Component | Description / dimensions |
|------------------------------|--|
| Type of technology | Photovoltaic solar facility |
| Number of inverters required | Minimum 50 |
| Generation capacity | Up to 150MW |
| PV Panels Structure Height | up to 6m |
| Battery storage facility | Within a 4 hectare area Maximum height: 8m Maximum volume: 1740m ³ Capacity: 500MW |

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| Surface area to be covered by PV array (development footprint) | 270 hectares (development footprint) within the assessed 300 hectares area |
| Area occupied by inverter / transformer stations / substations / BESS | Central inverters+ LV/MV trafo: 20m ² HV/MV substation with switching station: 15 000m ² BESS: 4 000m ² |
| Capacity of on-site substation and switching station | Minimum 130MVA in HV/MV substation/132kV |
| Capacity of the collector substation | Minimum 130MVA in HV/MV substation/132kV |
| Capacity of the power line | 132kV |
| Power servitude width | 32m |
| Area occupied by both permanent and construction laydown areas | Permanent Laydown Area: 270ha Construction Laydown Area: 2000 m ² |
| Area occupied by buildings | Security Room: ~60m ² Office: ~200m ² Staff Locker and Changing Room: ~200 m ² |
| Length of internal roads | Approximately 20km |
| Width of internal roads | 8 meters |
| Grid connection corridor width | Up to 150m, with some areas being ~100m wide |
| Grid connection corridor length | Approximately 8.17 kilometres |
| Height of fencing | Approximately 2.5 meters |

Conditions of this Environmental Authorisation

Scope of authorisation

1. The preferred alternative for development of a 150MW Lerato Photovoltaic Solar Energy Facility and associated infrastructure on Portion 4 of the farm Houthaaldoors 2, Portion 2 of Zamenskomst 4, Portion 10 and Remaining Extent of Portion 1 of Lichtenburg Town and Townlands 27, Portions 23 and 25 of Houthaalboomen 31 and Remaining Extent of the Farm Priem 30, Registration Division IP situated within the Ditsobotla Local Municipality in the Northwest Province is 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. Commencement with one activity listed in terms of this environmental authorisation constitutes commencement of all authorised activities.

Notification of authorisation and right to appeal

9. 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.
10. The notification referred to must –
 - 10.1. specify the date on which the authorisation was issued;
 - 10.2. inform the interested and affected party of the appeal procedure provided for in the National Appeal Regulations, 2014;
 - 10.3. advise the interested and affected party that a copy of the authorisation will be furnished on request; and
 - 10.4. give the reasons of the Competent Authority for the decision.

Commencement of the activity

11. 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

12. A copy of the final site layout map must be made available for comments to the 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. Existing infrastructure must be used as far as possible e.g. roads. The layout map must indicate the following:
 - 12.1. Existing and proposed infrastructure on site;
 - 12.2. The position of the solar PV panels;
 - 12.3. All associated infrastructure;
 - 12.4. All sensitive features i.e. 20m of burial sites, CBAs, avifaunal habitat area or nests; and
 - 12.5. All “no-go” and buffer areas.

13. The Environmental Management Programme (EMPr) submitted as part of the EIA is not approved and must be amended to include measures as dictated by the final site lay-out map. The EMPr must be made available for comments by 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. Once approved the EMPr must be implemented and adhered to.
14. The amended EMPr must include the final layout map.
15. 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.
16. Changes to the approved EMPr must be submitted in accordance to the EIA Regulations applicable at the time.
17. The Department reserves the right to amend the approved EMPr should any impacts that were not anticipated or covered in the EIA be discovered.

Frequency and process of updating the EMPr

18. The EMPr must be updated where the findings of the environmental audit reports, contemplated in Condition 25 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.
19. The updated EMPr must contain recommendations to rectify the shortcomings identified in the environmental audit report.
20. 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.
21. 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.
22. 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

23. 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.
 - 23.1. The ECO must be appointed before commencement of any authorised activities.
 - 23.2. Once appointed, the name and contact details of the ECO must be submitted to the *Director: Compliance Monitoring* of the Department.
 - 23.3. The ECO must keep record of all activities on site, problems identified, transgressions noted and a task schedule of tasks undertaken by the ECO.
 - 23.4. 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

24. 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.
25. 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.
26. 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.
27. 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.
28. 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.

29. 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

30. 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

31. 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

32. 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

33. The footprint of the development must be limited to the areas required for actual construction works and operational activities.
34. A permit must be obtained from the relevant nature conservation agency for the removal or destruction of protected or endangered plant or animal species.
35. The graves and burial sites must be retained in situ and must be fenced off, with a buffer zone of at least 20m.
36. All excavations into bedrock must be monitored by a suitably qualified palaeontologist and a report on the outcomes of the monitoring activities must be submitted to SAHRA on completion of the development of the facility.

37. Should any archaeological sites, artefacts, paleontological fossils or graves be exposed during construction work, work in the immediate vicinity of the find must be stopped, the South African Heritage Resources Agency (SAHRA) must be informed, and the services of an accredited heritage professional obtained for an assessment of the heritage resources.
38. All declared alien plants must be identified and managed in accordance with the Conservation of Agricultural Resources Act, 1983 (Act No. 43 of 1983).
39. No exotic plants must be used for rehabilitation purposes. Only indigenous plants of the area may be utilised.
40. The power lines must be marked with bird flight diverters along their entire length.
41. The poles must be fitted with bird perches on top of the poles to draw birds, particularly vultures away from the potentially risky insulators.
42. Vegetation clearing must be kept to an absolute minimum. Mitigation measures as specified in the EIAr dated 14 December 2021 must be implemented to reduce the risk of erosion and the invasion of alien species.
43. 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.
44. Hazardous substances must be stored in a bunded and designated area to avoid accidental leakage into the environment.
45. 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

46. A copy of this Environmental Authorisation, the audit and compliance monitoring reports, and the approved EMPr, must be made available for inspection and copying-
 - 46.1. at the site of the authorised activity;
 - 46.2. to anyone on request; and
 - 46.3. Where the holder of the Environmental Authorisation has a website, on such publicly accessible website.
47. 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: 20/09/2022



Mr Sabelo Malaza

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 23 July 2021 and amended application form received on 14 December 2021.
- b) The information contained in the final EIAr dated 14 December 2021.
- c) The comments received from interested and affected parties as included in the final EIAr dated 14 December 2021.
- d) Mitigation measures as proposed in the EIAr and the EMPr.
- e) The information contained in the specialist studies contained within the appendices of the final EIAr dated 14 December 2021.

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 ties in with the national government policies, plans, and programmes which have relevance to energy planning and production.
- c) The final EIAr dated 14 December 2021 identified all legislations and guidelines that have been considered in the preparation of the EIAr.
- d) The methodology used in assessing the potential impacts identified in the final EIAr dated 14 December 2021.
- e) 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 final EIAr dated 14 December 2021 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 proposed mitigation of impacts identified and assessed adequately curtails the identified impacts.
- d) 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 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.