



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

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NEAS Reference: DEA/EIA/0000825/2011

DEA Reference: 12/12/20/2632

Enquiries: Mpho Morudu

Telephone: 012-395-1775 Fax: 012-320-7539 E-mail: Mmorudu@environment.gov.za

Mr Frank Eager
Orlight SA (Pty) Ltd
36 Fricker Road
Illovo Boulevard
ILLOVO
2196

Fax no: 011 327 1011

PER FACSIMILE / MAIL

Dear Mr Eager

APPLICATION FOR ENVIRONMENTAL AUTHORISATION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, 1998: GN R. 543/544/545/546: PROPOSED CONSTRUCTION OF THE 70MW ORLIGHT SA PHOTOVOLTAIC SOLAR POWER PLANT ON PORTION 5 OF THE FARM KLEIN ROOIBERG 227 RD NEAR LOERIESFONTEIN WITHIN THE HANTAM LOCAL MUNICIPALITY, NORTHERN CAPE PROVINCE

With reference to the above application, please be advised that the Department has decided to accept the final environmental impact assessment report (EIR) dated July 2012 and grant authorisation. The environmental authorisation (EA) and reasons for the decision are attached herewith.

In terms of regulation 10(2) of the Environmental Impact Assessment Regulations, 2010 (the Regulations), you are instructed to notify all registered interested and affected parties, in writing and within 12 (twelve) 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 7 of the Regulations, which prescribes the appeal procedure to be followed. This procedure is summarised in the attached document. Kindly include a copy of this document with the letter of notification to interested and affected parties.

Should the applicant or any other party wish to appeal any aspect of the decision a notice of intention to appeal must be lodged by all prospective appellants with the Minister, within 20 days of the date of the EA, by means of one of the following methods:

By facsimile: 012 320 7561;
By post: Private Bag X447,
Pretoria, 0001; or

By hand: 2nd Floor, Fedsure Building, North Tower,
Cnr. Lillian Ngoyi and Pretorius Streets,
Pretoria.

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.

Please include the Department (*Attention: Director: Integrated Environmental Authorisations*) in the list of interested and affected parties, notified through your notification letter to interested and affected parties, for record purposes.

Appeals must be submitted in writing to:

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

Tel: 012-310-3271

Email: AppealsDirectorate@environment.gov.za

The authorised activities shall not commence within twenty (20) days of the date of signature of the authorisation. Further, please note that the Minister may, on receipt of appeals against the authorisation or conditions thereof suspend the authorisation pending the outcome of the appeals procedure.

Yours sincerely



Mr Mark Gordon
Chief Director: Integrated Environmental Authorisations
Department of Environmental Affairs

Date: 28/03/2013

CC:	Ms M Ackermann	Digby Wells Environmental	Tel: 011-789-9495	Fax: 086-502-1565
	Ms D Moleko	Northern Cape DENC	Tel: 053-807-4800	Fax: 053-831-3530
	Mr I Valentein	Hantam Local Municipality	Tel: 027-341-8500	Fax: 027-341-8501
	Mr T Zwane	Appeals Authority (DEA)	Tel: 012-310-3929	Fax: 012-320-7561
	Mr S Malaza	Compliance Monitoring (DEA)	Tel: 012-310-3397	Fax: 012-320-5744

APPEALS PROCEDURE IN TERMS OF CHAPTER 7 OF THE NEMA EIA REGULATIONS, 2010 (THE REGULATIONS) AS PER GN R. 543 OF 2010 TO BE FOLLOWED BY THE APPLICANT AND INTERESTED AND AFFECTED PARTIES UPON RECEIPT OF NOTIFICATION OF AN ENVIRONMENTAL AUTHORISATION (EA)

APPLICANT	INTERESTED AND AFFECTED PARTIES (IAPs)
1. Receive EA from the relevant Competent Authority (the Department of Environmental Affairs [DEA]).	1. Receive EA from Applicant/Consultant.
2. Within 12 days of date of the EA notify all IAPs of the EA and draw their attention to their right to appeal against the EA in terms of Chapter 7 of the Regulations.	2. N/A.
3. If you want to appeal against the EA, submit a notice of intention to appeal within 20 days of the date of the EA with the Minister of Water and Environmental Affairs (the Minister).	3. If you want to appeal against the EA, submit a notice of intention to appeal within 20 days of the date of the EA. with the Minister of Water and Environmental Affairs (the Minister).
4. After having submitted your notice of intention to appeal to the Minister, provide each registered IAP with a copy of the notice of intention to appeal within 10 days of lodging the notice.	4. After having submitted your notice of intention to appeal to the Minister, provide the applicant with a copy of the notice of intention to appeal within 10 days of lodging the notice.
5. The Applicant must also serve on each IAP: <ul style="list-style-type: none"> • a notice indicating where and for what period the appeal submission will be available for inspection. 	5. Appellant must also serve on the Applicant within 10 days of lodging the notice, <ul style="list-style-type: none"> • a notice indicating where and for what period the appeal submission will be available for inspection by the applicant.
6. The appeal must be submitted in writing to the Minister within 30 days after the lapsing of the period of 20 days provided for the lodging of the notice of intention to appeal.	6. The appeal must be submitted to the Minister within 30 days after the lapsing of the period of 20 days provided for the lodging of the notice of intention to appeal.
7. Any IAP who received a notice of intention to appeal may submit a responding statement to that appeal to the Minister within 30 days from the date that the appeal submission was lodged with the Minister.	7. An Applicant who received notice of intention to may submit a responding statement to the appeal to the Minister within 30 days from the date that the appeal submission was lodged with the Minister.

NOTES:

1. **An appeal against a decision must be lodged with:-**
 - a) the Minister of Water and Environmental Affairs if the decision was issued by the Director- General of the Department of Environmental Affairs (or another official) acting in his/ her capacity as the delegated Competent Authority;
 - b) the Minister of Justice and Constitutional Development if the applicant is the Department of Water Affairs and the decision was issued by the Director- General of the Department of Environmental Affairs (or another official) acting in his/ her capacity as the delegated Competent Authority;

2. **An appeal lodged with:-**
 - a) the Minister of Water and Environmental Affairs must be submitted to the Department of Environmental Affairs;
 - b) the Minister of Justice and Constitutional Development must be submitted to the Department of Environmental Affairs;

3. **An appeal must be:-**
 - a) submitted in writing;
 - b) accompanied by:
 - a statement setting out the grounds of appeal;
 - supporting documentation which is referred to in the appeal; and
 - a statement that the appellant has complied with regulation 62 (2) or (3) together with copies of the notices referred to in regulation 62.





environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

Environmental Authorisation

In terms of regulation 36 of the Environmental Impact Assessment Regulations, 2010

Construction of the Orlight SA (Pty) Ltd 70MW Photovoltaic (PV) Solar Power Plant near
Loeriesfontein within the Hantam Local Municipality, Northern Cape Province

Namakwa District Municipality

Authorisation register number:	12/12/20/2632
NEAS reference number:	DEA/EIA/0000825/2011
Last amended:	First issue
Holder of authorisation:	ORLIGHT SA (PTY) LTD
Location of activity:	NORTHERN CAPE PROVINCE: Within the Hantam Local Municipality

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 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 107 of 1998) and the Environmental Impact Assessment Regulations, 2010 the Department hereby authorises –

ORLIGHT SA (PTY) LTD

with the following contact details –

Mr Frank Eager

Orlight SA (Pty) Ltd

36 Fricker Road

Illovo Boulevard

ILLOVO

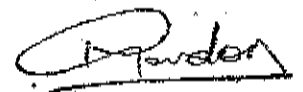
2196

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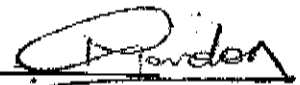


to undertake the following activities (hereafter referred to as "the activity") indicated in Listing Notices 2 and 3 (GN R. 545 & 546):

Activity number	Activity description
<p><u>GN R. 545: Item 1:</u> <i>The construction of facilities or infrastructure for the generation of electricity where the electricity output is 20 megawatts or more.</i></p>	<p>The construction of a 70MW Solar PV Power Plant.</p>
<p><u>GN R. 545: Item 15:</u> <i>Physical alteration of undeveloped, vacant or derelict land for residential, retail, commercial, recreational, industrial or institutional use where the total area to be transformed is 20 ha or more.</i></p>	<p>The physical alteration of an area greater than 20 ha agricultural land for the purposes of constructing a Solar PV Power Plant.</p>
<p><u>GN R. 546: Item 12:</u> <i>The clearance of an area of 5 hectares or more of vegetation where 75% or more of the vegetative cover constitutes indigenous vegetation-</i> <i>(b) Within critical biodiversity area identified in bioregional plans.</i></p>	<p>The clearance of more than 300m² of land consisting of 75% or more indigenous vegetation in a Critical Biodiversity Area (CBA) as identified in the CBA map for the Namakwa District Municipality.</p>
<p><u>GN R. 546: Item 14:</u> <i>The clearance of an area of 1 hectare or more of vegetation where 75% or more of the vegetative cover constitutes indigenous vegetation-</i> (a) In the Northern Cape <i>i. All areas outside urban areas.</i></p>	<p>The clearance of approximately more than 5 ha land consisting of 75% or more indigenous vegetation.</p>

as described in the Environmental Impact Assessment Report (EIR) dated July 2012 at:

Preferred Site	Latitude	Longitude
Portion 5 of the farm Klein Rooiberg 227 RD near Loeriesfontein	30°35'52.450"S	19°32'15.705"E



- for the construction of a 70MW Photovoltaic (PV) Solar Power Plant on Portion 5 of the farm Klein Rooiberg 227 RD near Loeriesfontein within the Hantam Local Municipality, Northern Cape Province, hereafter referred to as "the property".

The infrastructure associated with this facility includes:

- **Solar PV panels:** An array of solar PV panels with a generating capacity of up to 70 MW will be installed over an area of 328.52 ha.
- **Support structures:** The solar PV panels will be mounted on steel support structures to a maximum height of 7m and tilted approximately 25° from the horizontal plane, facing to the north and may be on tracking systems to adjust the angle of the panels to the summer or winter solar radiation characteristics.
- **Foundations:** The panel foundations will be either hammered into the ground or have concrete foundations excavated to a depth of approximately 1.5m, depending on the terrain characteristics determined through geotechnical studies.
- **Electric cabling:** The solar PV arrays will be connected via electric cabling which will be laid underground in trenches of approximately 1m deep and 0.6m wide.
- **On-site substation:** The substation will occupy a surface area of approximately 0.79 ha and will include invertors to convert the electricity generated by the solar PV arrays from direct current (DC) to alternating current (AC).
- **Access roads:** Access to the proposed project site will be from the Granaatboskolk/Zout Dwaggas gravel road which runs through the site. An internal network of roads will be required to access the different components of the proposed project.
- **Temporary construction lay-down yard:** The construction lay-down yard will occupy a surface area of 8.1 ha and will include a site office, mobile toilets and bathroom facilities, a car yard where all vehicles will be parked to reduce oil spillage and the hydrocarbon management facility.
- **Access control and fencing of the site:** The site must be secured against theft from outside and for this purpose, different types of fencing will be considered, depending on the generation capacities of the proposed project.



Conditions of this Environmental Authorisation

Scope of authorisation

1. The preferred site on Portion 5 of the farm Klein Rooiberg 227 RD near Loeriesfontein is approved.
2. Authorisation of the activity is subject to the conditions contained in this 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 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 authorisation in terms of the regulations.
6. This activity must commence within a period of three (3) years from the date of issue of this 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.
7. Commencement with one activity listed in terms of this authorisation constitutes commencement of all authorised activities.
8. The holder of an environmental authorisation must notify the competent authority of any alienation, transfer and change of ownership rights in the property on which the activity is to take place.

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 12 (twelve) 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 Chapter 7 of the Environmental Impact Assessment (EIA) Regulations, 2010;
 - 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.
11. The holder of the authorisation must publish a notice –
 - 11.1. informing interested and affected parties of the decision;
 - 11.2. informing interested and affected parties where the decision can be accessed; and
 - 11.3. drawing the attention of interested and affected parties to the fact that an appeal may be lodged against this decision in the newspaper(s) contemplated and used in terms of regulation 54(2)(c) and (d) and which newspaper was used for the placing of advertisements as part of the public participation process.

Management of the activity

12. A copy of 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:
 - 12.1 Position of solar facilities and its associated infrastructure;
 - 12.2 Foundation footprint;
 - 12.3 Permanent laydown area footprint;
 - 12.4 Construction period laydown footprint;
 - 12.5 Internal roads indicating width (construction period width and operation period width) and with numbered sections between the other site elements which they serve (to make commenting on sections possible);
 - 12.6 Wetlands, drainage lines, rivers, stream and water crossing of roads and cables indicating the type of bridging structures that will be used;
 - 12.7 All sensitive features e.g. CBAs, heritage sites, wetlands, pans and drainage channels that will be affected by the facility and associated infrastructure;
 - 12.8 Substation(s) inverters and/or transformer(s) sites including their entire footprint;
 - 12.9 Cable routes and trench dimensions (where they are not along internal roads);

- 12.10 Connection routes (including pylon positions) to the distribution/transmission network;
 - 12.11 Cut and fill areas at panel sites, along roads and at sub-station/transformer sites indicating the expected volume of each cut and fill;
 - 12.12 Borrow pits;
 - 12.13 Spoil heaps (temporary for topsoil and subsoil and permanently for excess material);
 - 12.14 All existing infrastructure on the site, especially roads;
 - 12.15 Buildings, including accommodation; and
 - 12.16 All "no-go" and buffer areas.
13. The Environmental Management Programme (EMPr) submitted as part of the EIR dated July 2012 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 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 EMPr is amendable and 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.
 15. Changes to the EMPr, which are environmentally defensible, shall be submitted to this Department for acceptance before such changes could be effected.
 16. The Department reserves the right to amend the EMPr should any impacts that were not anticipated or covered in the EIR dated July 2012 be discovered.
 17. The provisions of the approved EMPr including recommendations and mitigation measures in the EIR dated July 2012 and specialist' studies shall be an extension of the conditions of this EA and therefore noncompliance with them would constitute noncompliance with the EA.
 18. The EMPr amendment must include the following:
 - 18.1 All recommendations and mitigation measures recorded in the EIR dated July 2012.
 - 18.2 The requirements and conditions of this authorisation.
 - 18.3 The final site layout map.
 - 18.4 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.
 - 18.5 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 ECO and be implemented prior to commencement of the construction phase.
- 18.6 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.
- 18.7 A traffic management plan for the site access roads to ensure that no hazards would result from the increased truck traffic and that traffic flow would not be adversely impacted. This plan must include measures to minimize impacts on local commuters e.g. limiting construction vehicles travelling on public roadways during the morning and late afternoon commute time and avoid using roads through densely populated built-up areas so as not to disturb existing retail and commercial operations.
- 18.8 A storm 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 appropriate 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.
- 18.9 An erosion management plan for monitoring and rehabilitating erosion events associated with the facility. Appropriate erosion mitigation must form part of this plan to prevent and reduce the risk of any potential erosion.
- 18.10 An effective monitoring system to detect any leakage or spillage of all hazardous substances during their transportation, handling, use and storage. This must include precautionary measures to limit the possibility of oil and other toxic liquids from entering the soil or storm water systems.
- 18.11 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.
- 18.12 An environmental sensitivity map indicating environmental sensitive areas and features identified during the EIA process.
- 18.13 A map combining the final layout map superimposed (overlain) on the environmental sensitivity map. This map must reflect the proposed location of the PV infrastructure as stated in the EIR dated July 2012 and this authorisation.

Environmental Control Officer (ECO) and duties

19. The holder of this authorisation must appoint a suitably experienced independent Environmental Control Officer (ECO) for the construction phase of the development that will have the responsibility to ensure that the conditions referred to in this authorisation are implemented and to ensure compliance with the provisions of the EMPr.
20. The ECO shall be appointed before commencement of any authorised activity.
21. Once appointed, the name and contact details of the ECO must be submitted to the Director: Compliance Monitoring of the Department.
22. The ECO shall remain employed until all rehabilitation measures, as required for implementation due to construction damage, are completed and the site is ready for operation.
23. The ECO must:
 - 23.1 Keep record of all activities on site, problems identified, transgressions noted and a schedule of tasks undertaken by the ECO.
 - 23.2 Keep and maintain a detailed incident (including spillage of bitumen, fuels, chemicals, or any other material) and complaint register on site indicating how these issues were addressed, what rehabilitation measures were taken and what preventative measures were implemented to avoid re-occurrence of incidents/complaints.
 - 23.3 Keep and maintain a daily site diary.
 - 23.4 Keep copies of all reports submitted to the Department.
 - 23.5 Keep and maintain a schedule of current site activities including the monitoring of such activities.
 - 23.6 Obtain and keep record of all documentation, permits, licences and authorisations required by this facility.
 - 23.7 Compile a monthly monitoring report.

Environmental audit report

24. The holder of the authorisation must submit an environmental audit report to the *Director: Compliance Monitoring* of the Department within 30 days of completion of the construction phase (i.e. within 30 days of site handover) and within 30 days of completion of rehabilitation activities.
25. The environmental audit report must:
 - 25.1 Be compiled by an independent environmental auditor;
 - 25.2 Indicate the date of the audit, the name of the auditor and the outcome of the audit;

- 25.3 Evaluate compliance with the requirements of the approved EMPr and this environmental authorisation;
- 25.4 Include measures to be implemented to attend to any non-compliances or degradation noted;
- 25.5 Include copies of any approvals granted by other authorities relevant to the development for the reporting period;
- 25.6 Highlight any outstanding environmental issues that must be addressed, along with recommendations for ensuring these issues are appropriately addressed;
- 25.7 Include a copy of this authorisation and the approved EMPr.
- 25.8 Include all documentation pertaining to this authorisation.
- 25.9 Include evidence of adherence to the conditions of this authorisation and the EMPr where relevant such as training records and attendance records.

Commencement of the activity

26. The authorised activity shall not commence within twenty (20) days of the date of signature of the authorisation.
27. An appeal under section 43 of the National Environmental Management Act (NEMA), Act 107 of 1998 (as amended), does not suspend an environmental authorisation or exemption, or any provisions or conditions attached thereto, or any directive, unless the Minister, MEC or delegated organ of state directs otherwise.
28. Should you be notified by the Minister of a suspension of the authorisation pending appeal procedures, you may not commence with the activity until such time that the Minister allows you to commence with such an activity in writing.

Notification to authorities

29. Fourteen (14) days written notice must be given to the Department that the activity will commence. 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. This notification period may coincide with the Notice of Intent to Appeal period.



Operation of the activity

30. Fourteen (14) days written notice must be given to the Department that the activity operational phase will commence.

Site closure and decommissioning

31. Should the activity ever cease or become redundant, the holder of this authorisation shall 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

32. A buffer zone of 50m must be maintained around the main drainage system, with 30 m buffer zones around its tributaries.
33. Areas of high ecological sensitivity which includes the northern part of the site where *Aloe falcata* (*Vanrhynsdorp Aloe*) and the protected plant species, *Hoodia gordonii*, must be avoided.
34. A buffer zone of 22m must be maintained around the existing 66 kV transmission lines that run through the project site.
35. The Late Stone Age (LSA) sites that have been rated as significant in terms of local and provincial archaeological context that are found on the outskirts of the study area and within other delineated no-go areas (Site LO57, Site 122, Site 143 and Site 086) must be avoided.
36. A Phase 2 Heritage Impact Assessment must be implemented for all significant LSA sites that are located within the project development footprint prior to the commencement of the construction phase. The necessary permits should be obtained from the South African Heritage Resources Agency (SAHRA).
37. A monitoring programme must be established and implemented during the construction period to determine the on-site effects that the solar PV panels and related infrastructure have on the plants and animals of the area. Such a monitoring program must concentrate on the sensitive landscape management, red data species management and alien invasive species management.
38. A flora survey of the project development footprint must be undertaken during the wet-season to try and identify Red Data and protected plant species that might not have been identified during

- dry-season surveys. If found, the necessary permits must be obtained prior to the removal or destruction of these species.
39. A biodiversity off-set area must be established in consultation with the Succulent Karoo Ecosystem Project (SKEP) and the Northern Cape Provincial Department of Environment and Nature Conservation (DENC) prior to construction to compensate disturbed areas and make a positive contribution towards available natural habitat.
 40. The footprint of the development must be limited to the areas required for actual construction works and operational activities and the areas outside of the footprint must be clearly demarcated and regarded as "no-go" areas.
 41. Anti-collision devices such as bird flappers must be installed where power lines cross avifaunal corridors. 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.
 42. The holder of this authorisation must obtain a Water Use Licence from the Department of Water Affairs (DWA) prior to the commencement of the project should the applicant impact on any wetland or water resource. A copy of the license must be kept by the ECO on site.
 43. No exotic plants may be used for rehabilitation purposes. Only indigenous plants of the area may be utilised.
 44. The holder of the authorisation must consult a lighting engineer to assist in the planning and placement of light fixtures in order to reduce the impacts associated with glare and light trespass.
 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 shall 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). Copies of all waste disposal certificates must be kept on site.
 46. Vegetation clearing must be limited to the required footprint. Mitigation measures must be implemented to reduce the risk of erosion and the invasion of alien species.
 47. 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 87 of 1998 and from the relevant provincial department for the destruction of species protected in terms of the specific provincial legislation.
 48. Cleared alien vegetation must not be dumped on adjacent intact vegetation during clearing but should be temporarily stored in a demarcated area.

49. 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).
50. The applicant must ensure that all the "No-go" areas are clearly demarcated (using fencing and appropriate signage) before construction commences.
51. Construction activities must be restricted to demarcated areas to restrict impact on vegetation, birds and animals. Contractors and construction workers must be clearly informed of the no-go areas.
52. Roads must be designed so that changes to surface water runoff are avoided and erosion is not initiated.
53. 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 must be made.
54. Appropriate dust suppression techniques must be implemented on all exposed surfaces to minimise and control airborne dust. Such measures must include wet suppression, chemical stabilization, the use of a wind fence, covering surfaces with straw chippings and re-vegetation of open areas.
55. Erosion and loss of soil must be prevented by minimizing the construction site exposed to surface water run-off. Where necessary erosion stabilizing actions such as gabions or re-vegetation must be implemented to prevent further habitat deterioration.
56. The holder of this authorisation must train safety representatives, managers and workers in workplace safety. All applicable safety standards and regulations, including for subcontractors must be enforced.
57. The holder of the authorisation must ensure that the construction and operation activities of the PV facility do not pose any significant impact to the Meerkat and or SKA facilities.
58. 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.
59. 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, 2010.
60. The holder of this authorisations, contractors and sub-contractors working on site must ensure that oil, fuel and chemicals are confined to specific and secured areas throughout the construction

period. These materials must be stored in a bunded area with adequate containment for potential spills and leaks.

General

61. A copy of this authorisation and the approved EMPr must be kept at the property where the activities will be undertaken. The authorisation and approved EMPr must be produced to any authorised official of the Department who requests to see it and must be made available for inspection by any employee or agent of the holder of the authorisation who works or undertakes work at the property.
62. The holder of the authorisation must notify both the *Director: Integrated Environmental Authorisations* and the *Director: Compliance Monitoring* at the Department, in writing and within 48 (forty eight) hours, if any condition of this authorisation cannot be or is not adhered to. Any notification in terms of this condition must be accompanied by reasons for the non-compliance.
63. 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 applicant or his 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 applicant 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: 28/03/2013.



Mr Mark Gordon

Chief Director: Integrated Environmental Authorisations

Department of Environmental Affairs

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 information contained in the EIR dated July 2012;
- b) The comments received from the organs of state and interested and affected parties as included in the EIR dated July 2012;
- c) Mitigation measures as proposed in the EIR dated July 2012 and the EMPr;
- d) The information contained in the specialist studies contained within Appendix E of the EIR;
- e) Findings of the site visit conducted on 11 April 2012; and
- f) The objectives and requirements of relevant legislation, policies and guidelines, including section 2 of the National Environmental Management Act, 1998 (Act 107 of 1998).

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 in terms of the Renewable Energy Independent Power Producers Procurement Programme (REIPPPP) and the provision of electricity from Independent Power Producers (IPPs) as required by the Department of Energy.
- c) The EIR dated July 2012 identified all legislation and guidelines that have been considered in the preparation of the EIR dated July 2012.
- d) The methodology used in assessing the potential impacts identified in the EIR dated July 2012 and the specialist studies have been adequately indicated.
- e) A sufficient public participation process was undertaken and the applicant has satisfied the minimum requirements as prescribed in the EIA Regulations, 2010 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 EIR dated July 2012 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 EIR 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.