



## environmental affairs

Department:  
Environmental Affairs  
REPUBLIC OF SOUTH AFRICA

Private Bag X 447 · PRETORIA · 0001 · Fedsure Building · 315 Pretorius Street · PRETORIA  
Tel (+ 27 12) 310 3911 · Fax (+ 2712) 322 2682

**NEAS Reference:** DEA/EIA/0001071/2012

**DEA Reference:** 14/12/16/3/3/2/292

**Enquiries:** Nyiko Nkosi

**Tel:** 012 395 1694 **Fax:** 012 320 7539 **E-mail:** nnkosi@environment.gov.za

Jo-Anne Thomas  
Savannah Environmental (Pty) Ltd  
PO Box 148  
**SUNNINGHILL**  
2157

**Fax:** 086 684 0547

**Tel:** 011 234 6621

### **PER FACSIMILE / MAIL**

Dear Sir

### **ACKNOWLEDGEMENT OF RECEIPT AND ACCEPTANCE OF NEW APPLICATION FOR ENVIRONMENTAL AUTHORISATION (SCOPING & EIA PROCESS) FOR THE PROPOSED ESTABLISHMENT OF THE KAROSHOEK CPVDS 1 FACILITY LOCATED ON SITE 2 AS PART OF THE LARGER KAROSHOEK SOLAR VALLEY DEVELOPMENT ON A SITE LOCATED 30KM EAST OF UPINGTON, NORTHERN CAPE**

The Department confirms having received the Application Form and EAP Declaration of Interest on 8 March 2012 for environmental authorisation for the abovementioned project. The Application is accepted.

Please note that the Department will request the delegation of authority from the provincial Department and will notify you with regards to the outcome.

Please include both reference numbers (NEAS Reference and DEA Reference), as listed above, on all documents and correspondence submitted to the Department.

Please note that one hard copy and one electronic copy (saved on CD/DVD) of draft reports, and five hard copies and one electronic copy of final reports must be submitted to the Department.

In addition, please consider the following during compilation of reports for this application for environmental authorisation:

- All applicable Departmental Guidelines must be considered throughout the application process. These can be downloaded from the Department's website: [www.environment.gov.za](http://www.environment.gov.za), Environmental Impact Management button, listed under "EIA Administration": Integrated Environmental Management Information Series link. These include, but are not limited to, the following topics: Scoping, Environmental Impact

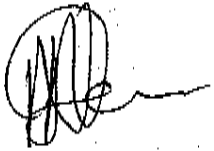
Reporting, Stakeholder Engagement, Specialist Studies, Impact Significance, Cumulative Effects Assessments, Alternatives in EIA and Environmental Management Plans.

- Please be advised that in terms of the EIA Regulations and NEMA the investigation of alternatives is mandatory. Alternatives must therefore be identified, investigated to determine if they are feasible and reasonable. It is also mandatory to investigate and assess the option of not proceeding with the proposed activity (the "no-go" option).
- Refer to the attached annexure for specific requirements for the submission of applications for environmental authorisation for solar power generation facilities.
- Should water, solid waste removal, effluent discharge, stormwater management and electricity services be provided by the municipality, you are requested to provide this office with written proof that the municipality has sufficient capacity to provide the necessary services to the proposed development. Confirmation of the availability of services from the service providers must be provided together with the reports to be submitted.
- In the reports to be submitted it must clearly be demonstrated in which way the proposed development will meet the requirements of sustainable development. You must also consider energy efficient technologies and water saving devices and technologies for the proposed development. This could include measures such as the recycling of waste, the use of low voltage or compact fluorescent lights instead of incandescent globes, maximising the use of solar heating, the use of dual flush toilets and low-flow shower heads and taps, the management of storm water, the capture and use of rainwater from gutters and roofs, the use of locally indigenous vegetation during landscaping and the training of staff to implement good housekeeping techniques.
- A detailed and complete EMPr must be submitted with the EIR. This EMPr must not provide recommendations but must indicate actual remediation activities which will be binding on the applicant. Without this EMPr the documents will be regarded as not meeting the requirements and will be returned to the applicant for correction.
- The applicant/EAP is required to inform this Department in writing upon submission of any draft report, of the contact details of the relevant State Departments (that administer laws relating to a matter affecting the environment) to whom copies of the draft report were submitted for comment. Upon receipt of this confirmation, this Department will in accordance with Section 24O(2) & (3) of the National Environmental Management Act, 1998 (Act 107 of 1998) inform the relevant State Departments of the commencement date of the 40 day commenting period, or 60 days in the case of the Department of Water Affairs for waste management activities which also require a licence in terms of the National Water Act, 1998 (Act 36 of 1998).
- Should it be necessary to apply for a permit in terms of the National Heritage Resources Act, 1999 (Act 25 of 1999), please submit the necessary application to SAHRA or the relevant provincial heritage agency and submit proof thereof with the Basic Assessment Report/Environmental Impact Assessment Report. The relevant heritage agency should also be involved during the public participation process and have the opportunity to comment on all the reports to be submitted to this Department.

In terms of regulation 67 of the EIA Regulations, 2010 this application will lapse if the applicant (or the EAP on behalf of the applicant) fails to comply with a requirement in terms of the Regulations for a period of six months after having submitted the application, unless the reasons for failure have been communicated to and accepted by this Department.

You are hereby reminded of Section 24F of the National Environmental Management Act, Act No 107 of 1998, as amended, that no activity may commence prior to an environmental authorisation being granted by the Department.

Yours sincerely



**Mr Ishaam Abader**

**Deputy Director-General: Environmental Quality and Protection**

**Department of Environmental Affairs**

**Letter signed by: Ms Nyiko Nkosi**

**Designation: Environmental Officer: Environmental Impact Evaluation**

**Date: 12/03/2012**

CC:	Pancho Ndebele	FG Emvelo	Tel: 011 523 6299	Fax: 086 519 5138
	Anga Yaphi	DENC	Tel: 053 807 7430	Fax: 053 831 3530
	Godfrey Kuun	Khara Hais Local Municipality	Tel: 054 338 7503	Fax: 054 338 7511

## **A. EIA INFORMATION REQUIRED FOR SOLAR ENERGY FACILITIES**

### **1. General site information**

The following general site information is required:

- Descriptions of all affected farm portions
- 21 digit Surveyor General codes of all affected farm portions
- Copies of deeds of all affected farm portions
- Photos of areas that give a visual perspective of all parts of the site
- Photographs from sensitive visual receptors (tourism routes, tourism facilities, etc.)
- Solar plant design specifications including:
  - Type of technology
  - Structure height
  - Surface area to be covered (including associated infrastructure such as roads)
  - Structure orientation
  - Laydown area dimensions (construction period and thereafter)
  - Generation capacity
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This information must be indicated on the first page of any Scoping or EIA document. It is also advised that it be double checked as there are too many mistakes in the applications that have been received that take too much time from authorities to correct.

### **2. Site maps and GIS information**

Site maps and GIS information should include at least the following:

- All maps/information layers must also be provided in ESRI Shapefile format
- All affected farm portions must be indicated
- The exact site of the application must be indicated (the areas that will be occupied by the application)
- A status quo map/layer must be provided that includes the following:
  - Current use of land on the site including:
    - Buildings and other structures
    - Agricultural fields
    - Grazing areas
    - Natural vegetation areas (natural veld not cultivated for the preceding 10 years) with an indication of the vegetation quality as well as fine scale mapping in respect of Critical Biodiversity Areas and Ecological Support Areas
    - Critically endangered and endangered vegetation areas that occur on the site
    - Bare areas which may be susceptible to soil erosion
    - Cultural historical sites and elements
  - Rivers, streams and water courses
  - Ridgelines and 20m continuous contours with height references in the GIS database
  - Fountains, boreholes, dams (in-stream as well as off-stream) and reservoirs

- High potential agricultural areas as defined by the Department of Agriculture, Forestry and Fisheries
- Buffer zones (also where it is dictated by elements outside the site):
  - 500m from any irrigated agricultural land
  - 1km from residential areas
- Indicate isolated residential, tourism facilities on or within 1km of the site
- A slope analysis map/layer that include the following slope ranges:
  - Less than 8% slope
  - between 8% and 12% slope
  - between 12% and 14% slope
  - steeper than 18 % slope
- A map/layer that indicate locations of birds and bats including roosting and foraging areas (specialist input required)
- A site development proposal map(s)/layer(s) that indicate:
  - Positions of solar facilities
  - Foundation footprint
  - Permanent laydown area footprint
  - Construction period laydown footprint
  - 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)
  - River, stream and water crossing of roads and cables indicating the type of bridging structures that will be used
  - Substation(s) and/or transformer(s) sites including their entire footprint.
  - Cable routes and trench dimensions (where they are not along internal roads)
  - Connection routes to the distribution/transmission network (the connection must form part of the EIA even if the construction and maintenance thereof will be done by another entity such as ESKOM)
  - Cut and fill areas along roads and at substation/transformer sites indicating the expected volume of each cut and fill
  - Borrow pits
  - Spoil heaps (temporary for topsoil and subsoil and permanently for excess material)
  - Buildings including accommodation

With the above information authorities will be able to assess the strategic and site impacts of applications.

### **3. Regional map and GIS information**

The regional map and GIS information should include at least the following:

- All maps/information layers must also be provided in ESRI Shapefile format
- The map/layer must cover an area of 20km around the site
- Indicate the following:
  - roads including their types (tared or gravel) and category (national, provincial, local or private)
  - Railway lines and stations
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  - Harbours and airports
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- Pipelines
- Waters sources to be utilised during the construction and operational phases
- A visibility assessment of the areas from where the facility will be visible
- Critical Biodiversity Areas and Ecological Support Areas
- Critically Endangered and Endangered vegetation areas
- Agricultural fields
- Irrigated areas
- An indication of new road or changes and upgrades that must be done to existing roads in order to get equipment onto the site including cut and fill areas and crossings of rivers and streams

#### 4. Important stakeholders

Amongst other important stakeholders, comments from the National Department of Agriculture, Forestry and Fisheries must be obtained and submitted to the Department. Request for comment must be submitted to:

Mrs. Anneliza Collett  
 Directorate: Land Use & Soil Management  
 Department of Agriculture, Forestry & Fisheries  
 Tel: 012 - 319 7508  
 Fax: 012 - 329 5938  
 e-mail: AnnelizaC@nda.agric.za  
 www.agis.agric.za

In addition, comments must be requested from Eskom (Mr Kevin Leask or Mr Ronald Marais (011) 8008111) regarding grid connectivity and capacity.

#### **B. AGRICULTURE STUDY REQUIREMENTS**

- Detailed soil assessment of the site in question, incorporating a radius of 50 m surrounding the site, on a scale of 1:10 000 or finer. The soil assessment should include the following:
  - Identification of the soil forms present on site
  - The size of the area where a particular soil form is found
  - GPS readings of soil survey points
  - The depth of the soil at each survey point
  - Soil colour
  - Limiting factors
  - Clay content
  - Slope of the site
  - A detailed map indicating the locality of the soil forms within the specified area.
  - Size of the site
- Exact locality of the site
- Current activities on the site; developments, buildings
- Surrounding developments / land uses and activities in a radius of 500 m of the site
- Access routes and the condition thereof
- Current status of the land (including erosion, vegetation and a degradation assessment)

- Possible land use options for the site
- Water availability, source and quality (if available)
- Detailed descriptions of why agriculture should or should not be the land use of choice
- Impact of the change of land use on the surrounding area
- A shape file containing the soil forms and relevant attribute data as depicted on the map



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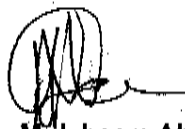
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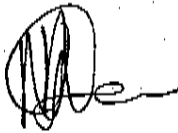
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	Godfrey Kuun	Khara Hais Local Municipality	Tel: 054 338 7503	Fax: 054 338 7511

## **A. EIA INFORMATION REQUIRED FOR SOLAR ENERGY FACILITIES**

### **1. General site information**

The following general site information is required:

- Descriptions of all affected farm portions
- 21 digit Surveyor General codes of all affected farm portions
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    - Grazing areas
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    - Critically endangered and endangered vegetation areas that occur on the site
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  - Rivers, streams and water courses
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  - Fountains, boreholes, dams (in-stream as well as off-stream) and reservoirs

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Amongst other important stakeholders, comments from the National Department of Agriculture, Forestry and Fisheries must be obtained and submitted to the Department. Request for comment must be submitted to:

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 Department of Agriculture, Forestry & Fisheries  
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  - Clay content
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## environmental affairs

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REPUBLIC OF SOUTH AFRICA

Private Bag X 447, PRETORIA, 0001, Fedsure Building, 315 Pretorius Street, PRETORIA  
Tel (+ 27 12) 310 3911 · Fax (+ 2712) 322 2682

**NEAS Reference:** DEA/EIA/0001074/2012

**DEA Reference:** 14/12/16/3/3/2/289

**Enquiries:** Nyiko Nkosi

**Tel:** 012 395 1694 **Fax:** 012 320 7539 **E-mail:** nnkosi@environment.gov.za

Jo-Anne Thomas  
Savannah Environmental (Pty) Ltd  
PO Box 148  
**SUNNINGHILL**  
2157

**Fax:** 086 684 0547

**Tel:** 011 234 6621

### **PER FACSIMILE / MAIL**

Dear Sir

### **ACKNOWLEDGEMENT OF RECEIPT AND ACCEPTANCE OF NEW APPLICATION FOR ENVIRONMENTAL AUTHORISATION (SCOPING & EIA PROCESS) FOR THE PROPOSED ESTABLISHMENT OF THE KAROSHOEK CPVDS 4 FACILITY LOCATED ON SITE 2 AS PART OF THE LARGER KAROSHOEK SOLAR VALLEY DEVELOPMENT ON A SITE LOCATED 30KM EAST OF UPINGTON, NORTHERN CAPE**

The Department confirms having received the Application Form and EAP Declaration of Interest on 8 March 2012 for environmental authorisation for the abovementioned project. The Application is accepted.

Please note that the Department will request the delegation of authority from the provincial Department and will notify you with regards to the outcome.

Please include both reference numbers (NEAS Reference and DEA Reference), as listed above, on all documents and correspondence submitted to the Department.

Please note that one hard copy and one electronic copy (saved on CD/DVD) of draft reports, and five hard copies and one electronic copy of final reports must be submitted to the Department.

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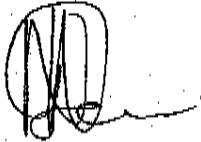
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- Please be advised that in terms of the EIA Regulations and NEMA the investigation of alternatives is mandatory. Alternatives must therefore be identified, investigated to determine if they are feasible and reasonable. It is also mandatory to investigate and assess the option of not proceeding with the proposed activity (the "no-go" option).
- Refer to the attached annexure for specific requirements for the submission of applications for environmental authorisation for solar power generation facilities.
- Should water, solid waste removal, effluent discharge, stormwater management and electricity services be provided by the municipality, you are requested to provide this office with written proof that the municipality has sufficient capacity to provide the necessary services to the proposed development. Confirmation of the availability of services from the service providers must be provided together with the reports to be submitted.
- In the reports to be submitted it must clearly be demonstrated in which way the proposed development will meet the requirements of sustainable development. You must also consider energy efficient technologies and water saving devices and technologies for the proposed development. This could include measures such as the recycling of waste, the use of low voltage or compact fluorescent lights instead of incandescent globes, maximising the use of solar heating, the use of dual flush toilets and low-flow shower heads and taps, the management of storm water, the capture and use of rainwater from gutters and roofs, the use of locally indigenous vegetation during landscaping and the training of staff to implement good housekeeping techniques.
- A detailed and complete EMPr must be submitted with the EIR. This EMPr must not provide recommendations but must indicate actual remediation activities which will be binding on the applicant. Without this EMPr the documents will be regarded as not meeting the requirements and will be returned to the applicant for correction.
- The applicant/EAP is required to inform this Department in writing upon submission of any draft report, of the contact details of the relevant State Departments (that administer laws relating to a matter affecting the environment) to whom copies of the draft report were submitted for comment. Upon receipt of this confirmation, this Department will in accordance with Section 24O(2) & (3) of the National Environmental Management Act, 1998 (Act 107 of 1998) inform the relevant State Departments of the commencement date of the 40 day commenting period, or 60 days in the case of the Department of Water Affairs for waste management activities which also require a licence in terms of the National Water Act, 1998 (Act 36 of 1998).
- Should it be necessary to apply for a permit in terms of the National Heritage Resources Act, 1999 (Act 25 of 1999), please submit the necessary application to SAHRA or the relevant provincial heritage agency and submit proof thereof with the Basic Assessment Report/Environmental Impact Assessment Report. The relevant heritage agency should also be involved during the public participation process and have the opportunity to comment on all the reports to be submitted to this Department.

In terms of regulation 67 of the EIA Regulations, 2010 this application will lapse if the applicant (or the EAP on behalf of the applicant) fails to comply with a requirement in terms of the Regulations for a period of six months after having submitted the application, unless the reasons for failure have been communicated to and accepted by this Department.

You are hereby reminded of Section 24F of the National Environmental Management Act, Act No 107 of 1998, as amended, that no activity may commence prior to an environmental authorisation being granted by the Department.

Yours sincerely



**Mr Ishaam Abader**

**Deputy Director-General: Environmental Quality and Protection**

**Department of Environmental Affairs**

**Letter signed by: Ms Nyiko Nkosi**

**Designation: Environmental Officer: Environmental Impact Evaluation**

**Date: 12/03/2012**

CC:	Pancho Ndebele	FG Emvelo	Tel: 011 523 6299	Fax: 086 519 5138
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## environmental affairs

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**NEAS Reference:** DEA/EIA/0001070/2012

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**Enquiries:** Nyiko Nkosi

**Tel:** 012 395 1694 **Fax:** 012 320 7539 **E-mail:** nnkosi@environment.gov.za

Jo-Anne Thomas  
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**Letter signed by: Ms Nyiko Nkosi**

**Designation: Environmental Officer: Environmental Impact Evaluation**

**Date: 12/03/2012**

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- Access routes and the condition thereof
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## environmental affairs

Department:  
Environmental Affairs  
**REPUBLIC OF SOUTH AFRICA**

Private Bag X 447 · PRETORIA · 0001 · Fedsure Building · 315 Pretorius Street · PRETORIA  
Tel (+ 27 12) 310 3911 · Fax (+ 2712) 322 2682

**NEAS Reference:** DEAEIA/0001069/2012

**DEA Reference:** 14/12/16/3/3/2/294

**Enquiries:** Nyiko Nkosi

**Tel:** 012 395 1694 **Fax:** 012 320 7539 **E-mail:** nnkosi@environment.gov.za

Jo-Anne Thomas  
Savannah Environmental (Pty) Ltd  
PO Box 148  
**SUNNINGHILL**  
2157

**Fax:** 086 684 0547

**Tel:** 011 234 6621

### **PER FACSIMILE / MAIL**

Dear Sir

### **ACKNOWLEDGEMENT OF RECEIPT AND ACCEPTANCE OF NEW APPLICATION FOR ENVIRONMENTAL AUTHORISATION (SCOPING & EIA PROCESS) FOR THE PROPOSED ESTABLISHMENT OF THE KAROSHOEK PT FACILITY LOCATED ON SITE 1.3, AS PART OF THE LARGER KAROSHOEK SOLAR VALLEY DEVELOPMENT ON A SITE LOCATED 30KM EAST OF UPINGTON, NORTHERN CAPE**

The Department confirms having received the Application Form and EAP Declaration of Interest on 8 March 2012 for environmental authorisation for the abovementioned project. The Application is accepted.

Please note that the Department will request the delegation of authority from the provincial Department and will notify you with regards to the outcome.

Please include both reference numbers (NEAS Reference and DEA Reference), as listed above, on all documents and correspondence submitted to the Department.

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- All applicable Departmental Guidelines must be considered throughout the application process. These can be downloaded from the Department's website: [www.environment.gov.za](http://www.environment.gov.za), Environmental Impact Management button, listed under "EIA Administration": Integrated Environmental Management Information Series link. These include, but are not limited to, the following topics: Scoping, Environmental Impact

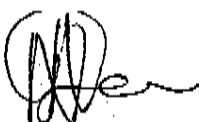
Reporting, Stakeholder Engagement, Specialist Studies, Impact Significance, Cumulative Effects Assessments, Alternatives in EIA and Environmental Management Plans.

- Please be advised that in terms of the EIA Regulations and NEMA the investigation of alternatives is mandatory. Alternatives must therefore be identified, investigated to determine if they are feasible and reasonable. It is also mandatory to investigate and assess the option of not proceeding with the proposed activity (the "no-go" option).
- Refer to the attached annexure for specific requirements for the submission of applications for environmental authorisation for solar power generation facilities.
- Should water, solid waste removal, effluent discharge, stormwater management and electricity services be provided by the municipality, you are requested to provide this office with written proof that the municipality has sufficient capacity to provide the necessary services to the proposed development. Confirmation of the availability of services from the service providers must be provided together with the reports to be submitted.
- In the reports to be submitted it must clearly be demonstrated in which way the proposed development will meet the requirements of sustainable development. You must also consider energy efficient technologies and water saving devices and technologies for the proposed development. This could include measures such as the recycling of waste, the use of low voltage or compact fluorescent lights instead of incandescent globes, maximising the use of solar heating, the use of dual flush toilets and low-flow shower heads and taps, the management of storm water, the capture and use of rainwater from gutters and roofs, the use of locally indigenous vegetation during landscaping and the training of staff to implement good housekeeping techniques.
- A detailed and complete EMPr must be submitted with the FIR. This EMPr must not provide recommendations but must indicate actual remediation activities which will be binding on the applicant. Without this EMPr the documents will be regarded as not meeting the requirements and will be returned to the applicant for correction.
- The applicant/EAP is required to inform this Department in writing upon submission of any draft report, of the contact details of the relevant State Departments (that administer laws relating to a matter affecting the environment) to whom copies of the draft report were submitted for comment. Upon receipt of this confirmation, this Department will in accordance with Section 24O(2) & (3) of the National Environmental Management Act, 1998 (Act 107 of 1998) inform the relevant State Departments of the commencement date of the 40 day commenting period, or 60 days in the case of the Department of Water Affairs for waste management activities which also require a licence in terms of the National Water Act, 1998 (Act 36 of 1998).
- Should it be necessary to apply for a permit in terms of the National Heritage Resources Act, 1999 (Act 25 of 1999), please submit the necessary application to SAHRA or the relevant provincial heritage agency and submit proof thereof with the Basic Assessment Report/Environmental Impact Assessment Report. The relevant heritage agency should also be involved during the public participation process and have the opportunity to comment on all the reports to be submitted to this Department.

In terms of regulation 67 of the EIA Regulations, 2010 this application will lapse if the applicant (or the EAP on behalf of the applicant) fails to comply with a requirement in terms of the Regulations for a period of six months after having submitted the application, unless the reasons for failure have been communicated to and accepted by this Department.

You are hereby reminded of Section 24F of the National Environmental Management Act, Act No 107 of 1998, as amended, that no activity may commence prior to an environmental authorisation being granted by the Department.

Yours sincerely



**Mr Ishaam Abader**  
**Deputy Director-General: Environmental Quality and Protection**  
**Department of Environmental Affairs**  
**Letter signed by: Ms Nyiko Nkosi**  
**Designation: Environmental Officer: Environmental Impact Evaluation**  
**Date: 12/03/2012**

CC:	Pancho Ndebele	FG Emvelo	Tel: 011 523 6299	Fax: 086 519 5138
	Anga Yaphi	DENC	Tel: 053 807 7430	Fax: 053 831 3530
	Godfrey Kuun	Khara Hais Local Municipality	Tel: 054 338 7503	Fax: 054 338 7511

## **A. EIA INFORMATION REQUIRED FOR SOLAR ENERGY FACILITIES**

### **1. General site information**

The following general site information is required:

- Descriptions of all affected farm portions
- 21 digit Surveyor General codes of all affected farm portions
- Copies of deeds of all affected farm portions
- Photos of areas that give a visual perspective of all parts of the site
- Photographs from sensitive visual receptors (tourism routes, tourism facilities, etc.)
- Solar plant design specifications including:
  - Type of technology
  - Structure height
  - Surface area to be covered (including associated infrastructure such as roads)
  - Structure orientation
  - Laydown area dimensions (construction period and thereafter)
  - Generation capacity
- Generation capacity of the facility as a whole at delivery points

This information must be indicated on the first page of any Scoping or EIA document. It is also advised that it be double checked as there are too many mistakes in the applications that have been received that take too much time from authorities to correct.

### **2. Site maps and GIS information**

Site maps and GIS information should include at least the following:

- All maps/information layers must also be provided in ESRI Shapefile format
- All affected farm portions must be indicated
- The exact site of the application must be indicated (the areas that will be occupied by the application)
- A status quo map/layer must be provided that includes the following:
  - Current use of land on the site including:
    - Buildings and other structures
    - Agricultural fields
    - Grazing areas
    - Natural vegetation areas (natural veld not cultivated for the preceding 10 years) with an indication of the vegetation quality as well as fine scale mapping in respect of Critical Biodiversity Areas and Ecological Support Areas
    - Critically endangered and endangered vegetation areas that occur on the site
    - Bare areas which may be susceptible to soil erosion
    - Cultural historical sites and elements
  - Rivers, streams and water courses
  - Ridgelines and 20m continuous contours with height references in the GIS database
  - Fountains, boreholes, dams (in-stream as well as off-stream) and reservoirs

- High potential agricultural areas as defined by the Department of Agriculture, Forestry and Fisheries
- Buffer zones (also where it is dictated by elements outside the site):
  - 500m from any irrigated agricultural land
  - 1km from residential areas
- Indicate isolated residential, tourism facilities on or within 1km of the site
- A slope analysis map/layer that include the following slope ranges:
  - Less than 8% slope
  - between 8% and 12% slope
  - between 12% and 14% slope
  - steeper than 18 % slope
- A map/layer that indicate locations of birds and bats including roosting and foraging areas (specialist input required)
- A site development proposal map(s)/layer(s) that indicate:
  - Positions of solar facilities
  - Foundation footprint
  - Permanent laydown area footprint
  - Construction period laydown footprint
  - 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)
  - River, stream and water crossing of roads and cables indicating the type of bridging structures that will be used
  - Substation(s) and/or transformer(s) sites including their entire footprint.
  - Cable routes and trench dimensions (where they are not along internal roads)
  - Connection routes to the distribution/transmission network (the connection must form part of the EIA even if the construction and maintenance thereof will be done by another entity such as ESKOM)
  - Cut and fill areas along roads and at substation/transformer sites indicating the expected volume of each cut and fill
  - Borrow pits
  - Spoil heaps (temporary for topsoil and subsoil and permanently for excess material)
  - Buildings including accommodation

With the above information authorities will be able to assess the strategic and site impacts of applications.

### **3. Regional map and GIS information**

The regional map and GIS information should include at least the following:

- All maps/information layers must also be provided in ESRI Shapefile format
- The map/layer must cover an area of 20km around the site
- Indicate the following:
  - roads including their types (tarred or gravel) and category (national, provincial, local or private)
  - Railway lines and stations
  - Industrial areas
  - Harbours and airports
  - Electricity transmission and distribution lines and substations



- Pipelines
- Water sources to be utilised during the construction and operational phases
- A visibility assessment of the areas from where the facility will be visible
- Critical Biodiversity Areas and Ecological Support Areas
- Critically Endangered and Endangered vegetation areas
- Agricultural fields
- Irrigated areas
- An indication of new road or changes and upgrades that must be done to existing roads in order to get equipment onto the site including cut and fill areas and crossings of rivers and streams

#### 4. Important stakeholders

Amongst other important stakeholders, comments from the National Department of Agriculture, Forestry and Fisheries must be obtained and submitted to the Department. Request for comment must be submitted to:

Mrs. Anneliza Colett  
 Directorate: Land Use & Soil Management  
 Department of Agriculture, Forestry & Fisheries  
 Tel: 012 - 319 7508  
 Fax: 012 - 329 5938  
 e-mail: AnnelizaC@nda.agric.za  
 www.agis.agric.za

In addition, comments must be requested from Eskom (Mr Kevin Leask or Mr Ronald Marais (011) 8008111) regarding grid connectivity and capacity.

#### **B. AGRICULTURE STUDY REQUIREMENTS**

- Detailed soil assessment of the site in question, incorporating a radius of 50 m surrounding the site, on a scale of 1:10 000 or finer. The soil assessment should include the following:
  - Identification of the soil forms present on site
  - The size of the area where a particular soil form is found
  - GPS readings of soil survey points
  - The depth of the soil at each survey point
  - Soil colour
  - Limiting factors
  - Clay content
  - Slope of the site
  - A detailed map indicating the locality of the soil forms within the specified area,
  - Size of the site
- Exact locality of the site
- Current activities on the site, developments, buildings
- Surrounding developments / land uses and activities in a radius of 500 m of the site
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NEAS Reference: DEA/EIA/0001064/2012

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Enquiries: Nyiko Nkosi

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Jo-Anne Thomas  
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Fax: 086 684 0547

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### PER FACSIMILE / MAIL

Dear Sir

### **ACKNOWLEDGEMENT OF RECEIPT AND ACCEPTANCE OF NEW APPLICATION FOR ENVIRONMENTAL AUTHORISATION (SCOPING & EIA PROCESS) FOR THE PROPOSED ESTABLISHMENT OF THE KAROSHOEK LFT2 FACILITY LOCATED ON SITE 1.4, AS PART OF THE LARGER KAROSHOEK SOLAR VALLEY DEVELOPMENT ON A SITE LOCATED 30KM EAST OF UPINGTON, NORTHERN CAPE**

The Department confirms having received the Application Form and EAP Declaration of Interest on 8 March 2012 for environmental authorisation for the abovementioned project. The Application is accepted.

Please note that the Department will request the delegation of authority from the provincial Department and will notify you with regards to the outcome.

Please include both reference numbers (NEAS Reference and DEA Reference), as listed above, on all documents and correspondence submitted to the Department.

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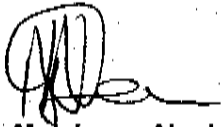
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Yours sincerely



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**Deputy Director-General: Environmental Quality and Protection**

**Department of Environmental Affairs**

**Letter signed by: Ms Nyiko Nkosi**

**Designation: Environmental Officer: Environmental Impact Evaluation**

**Date: 12/03/2012**

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 Directorate: Land Use & Soil Management  
 Department of Agriculture, Forestry & Fisheries  
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## environmental affairs

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**NEAS Reference:** DEA/EIA/0001065/2012

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**Enquiries:** Nyiko Nkosi

**Tel:** 012 395 1694 **Fax:** 012 320 7539 **E-mail:** nnkosi@environment.gov.za

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### **PER FACSIMILE / MAIL**

Dear Sir

### **ACKNOWLEDGEMENT OF RECEIPT AND ACCEPTANCE OF NEW APPLICATION FOR ENVIRONMENTAL AUTHORISATION (SCOPING & EIA PROCESS) FOR THE PROPOSED ESTABLISHMENT OF THE KAROSHOEK TOWER 1 FACILITY LOCATED ON SITE 3, AS PART OF THE LARGER KAROSHOEK SOLAR VALLEY DEVELOPMENT ON A SITE LOCATED 30KM EAST OF UPINGTON, NORTHERN CAPE**

The Department confirms having received the Application Form and EAP Declaration of Interest on 8 March 2012 for environmental authorisation for the abovementioned project. The Application is accepted.

Please note that the Department will request the delegation of authority from the provincial Department and will notify you with regards to the outcome.

Please include both reference numbers (NEAS Reference and DEA Reference), as listed above, on all documents and correspondence submitted to the Department.

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In terms of regulation 67 of the EIA Regulations, 2010 this application will lapse if the applicant (or the EAP on behalf of the applicant) fails to comply with a requirement in terms of the Regulations for a period of six months after having submitted the application, unless the reasons for failure have been communicated to and accepted by this Department.

You are hereby reminded of Section 24F of the National Environmental Management Act, Act No 107 of 1998, as amended, that no activity may commence prior to an environmental authorisation being granted by the Department.

Yours sincerely



**Mr Ishaam Abader**

**Deputy Director-General: Environmental Quality and Protection**

**Department of Environmental Affairs**

**Letter signed by: Ms Nyiko Nkosi**

**Designation: Environmental Officer: Environmental Impact Evaluation**

**Date: 12/03/2012**

CC:	Pancho Ndebele	FG Eravelo	Tel: 011 523 6299	Fax: 086 519 5138
	Anga Yaphi	DENC	Tel: 053 807 7430	Fax: 053 831 3530
	Godfrey Kuun	Khara Hais Local Municipality	Tel: 054 338 7503	Fax: 054 338 7511

## **A. EIA INFORMATION REQUIRED FOR SOLAR ENERGY FACILITIES**

### **1. General site information**

The following general site information is required:

- Descriptions of all affected farm portions
- 21 digit Surveyor General codes of all affected farm portions
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- Solar plant design specifications including:
  - Type of technology
  - Structure height
  - Surface area to be covered (including associated infrastructure such as roads)
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- Generation capacity of the facility as a whole at delivery points

This information must be indicated on the first page of any Scoping or EIA document. It is also advised that it be double checked as there are too many mistakes in the applications that have been received that take too much time from authorities to correct.

### **2. Site maps and GIS information**

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- A status quo map/layer must be provided that includes the following:
  - Current use of land on the site including:
    - Buildings and other structures
    - Agricultural fields
    - Grazing areas
    - Natural vegetation areas (natural veld not cultivated for the preceding 10 years) with an indication of the vegetation quality as well as fine scale mapping in respect of Critical Biodiversity Areas and Ecological Support Areas
    - Critically endangered and endangered vegetation areas that occur on the site
    - Bare areas which may be susceptible to soil erosion
    - Cultural historical sites and elements
  - Rivers, streams and water courses
  - Ridgelines and 20m continuous contours with height references in the GIS database
  - Fountains, boreholes, dams (in-stream as well as off-stream) and reservoirs

- High potential agricultural areas as defined by the Department of Agriculture, Forestry and Fisheries
- Buffer zones (also where it is dictated by elements outside the site):
  - 500m from any irrigated agricultural land
  - 1km from residential areas
- Indicate isolated residential, tourism facilities on or within 1km of the site
- A slope analysis map/layer that include the following slope ranges:
  - Less than 8% slope
  - between 8% and 12% slope
  - between 12% and 14% slope
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  - Positions of solar facilities
  - Foundation footprint
  - Permanent laydown area footprint
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  - River, stream and water crossing of roads and cables indicating the type of bridging structures that will be used
  - Substation(s) and/or transformer(s) sites including their entire footprint.
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With the above information authorities will be able to assess the strategic and site impacts of applications.

### 3. Regional map and GIS information

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- Pipelines
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- Agricultural fields
- Irrigated areas
- An indication of new road or changes and upgrades that must be done to existing roads in order to get equipment onto the site including cut and fill areas and crossings of rivers and streams

#### 4. Important stakeholders

Amongst other important stakeholders, comments from the National Department of Agriculture, Forestry and Fisheries must be obtained and submitted to the Department. Request for comment must be submitted to:

Mrs. Anneliza Collett  
 Directorate: Land Use & Soil Management  
 Department of Agriculture, Forestry & Fisheries  
 Tel: 012 - 319 7508  
 Fax: 012 - 329 5938  
 e-mail: AnnelizaC@nda.agric.za  
 www.agis.agric.za

In addition, comments must be requested from Eskom (Mr Kevin Leask or Mr Ronald Marais (011) 8008111) regarding grid connectivity and capacity.

#### **B. AGRICULTURE STUDY REQUIREMENTS**

- Detailed soil assessment of the site in question, incorporating a radius of 50 m surrounding the site, on a scale of 1:10 000 or finer. The soil assessment should include the following:
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  - Clay content
  - Slope of the site
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## environmental affairs

Department:  
Environmental Affairs  
REPUBLIC OF SOUTH AFRICA

Private Bag X 447 · PRETORIA · 0001 · Fedsure Building · 315 Pretorius Street · PRETORIA  
Tel (+ 27 12) 310 3911 · Fax (+ 2712) 322 2682

**NEAS Reference:** DEA/EIA/0001066/2012

**DEA Reference:** 14/12/16/3/3/2/297

**Enquiries:** Nyiko Nkosi

**Tel:** 012 395 1694 **Fax:** 012 320 7539 **E-mail:** nnkosi@environment.gov.za

Jo-Anne Thomas  
Savannah Environmental (Pty) Ltd  
PO Box 148  
**SUNNINGHILL**  
2157

**Fax:** 086 684 0547

**Tel:** 011 234 6621

### PER FACSIMILE / MAIL

Dear Sir

### **ACKNOWLEDGEMENT OF RECEIPT AND ACCEPTANCE OF NEW APPLICATION FOR ENVIRONMENTAL AUTHORISATION (SCOPING & EIA PROCESS) FOR THE PROPOSED ESTABLISHMENT OF THE KAROSHOEK TOWER 2 FACILITY LOCATED ON SITE 3, AS PART OF THE LARGER KAROSHOEK SOLAR VALLEY DEVELOPMENT ON A SITE LOCATED 30KM EAST OF UPINGTON, NORTHERN CAPE**

The Department confirms having received the Application Form and EAP Declaration of Interest on 8 March 2012 for environmental authorisation for the abovementioned project. The Application is accepted.

Please note that the Department will request the delegation of authority from the provincial Department and will notify you with regards to the outcome.

Please include both reference numbers (NEAS Reference and DEA Reference), as listed above, on all documents and correspondence submitted to the Department.

Please note that one hard copy and one electronic copy (saved on CD/DVD) of draft reports, and five hard copies and one electronic copy of final reports must be submitted to the Department.

In addition, please consider the following during compilation of reports for this application for environmental authorisation:

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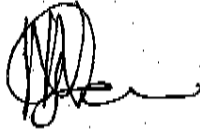
Reporting, Stakeholder Engagement, Specialist Studies, Impact Significance, Cumulative Effects Assessments, Alternatives in EIA and Environmental Management Plans.

- Please be advised that in terms of the EIA Regulations and NEMA the investigation of alternatives is mandatory. Alternatives must therefore be identified, investigated to determine if they are feasible and reasonable. It is also mandatory to investigate and assess the option of not proceeding with the proposed activity (the "no-go" option).
- Refer to the attached annexure for specific requirements for the submission of applications for environmental authorisation for solar power generation facilities.
- Should water, solid waste removal, effluent discharge, stormwater management and electricity services be provided by the municipality, you are requested to provide this office with written proof that the municipality has sufficient capacity to provide the necessary services to the proposed development. Confirmation of the availability of services from the service providers must be provided together with the reports to be submitted.
- In the reports to be submitted it must clearly be demonstrated in which way the proposed development will meet the requirements of sustainable development. You must also consider energy efficient technologies and water saving devices and technologies for the proposed development. This could include measures such as the recycling of waste, the use of low voltage or compact fluorescent lights instead of incandescent globes, maximising the use of solar heating, the use of dual flush toilets and low-flow shower heads and taps, the management of storm water, the capture and use of rainwater from gutters and roofs, the use of locally indigenous vegetation during landscaping and the training of staff to implement good housekeeping techniques.
- A detailed and complete EMPr must be submitted with the EIR. This EMPr must not provide recommendations but must indicate actual remediation activities which will be binding on the applicant. Without this EMPr the documents will be regarded as not meeting the requirements and will be returned to the applicant for correction.
- The applicant/EAP is required to inform this Department in writing upon submission of any draft report, of the contact details of the relevant State Departments (that administer laws relating to a matter affecting the environment) to whom copies of the draft report were submitted for comment. Upon receipt of this confirmation, this Department will in accordance with Section 24O(2) & (3) of the National Environmental Management Act, 1998 (Act 107 of 1998) inform the relevant State Departments of the commencement date of the 40 day commenting period, or 60 days in the case of the Department of Water Affairs for waste management activities which also require a licence in terms of the National Water Act, 1998 (Act 36 of 1998).
- Should it be necessary to apply for a permit in terms of the National Heritage Resources Act, 1999 (Act 25 of 1999), please submit the necessary application to SAHRA or the relevant provincial heritage agency and submit proof thereof with the Basic Assessment Report/Environmental Impact Assessment Report. The relevant heritage agency should also be involved during the public participation process and have the opportunity to comment on all the reports to be submitted to this Department.

In terms of regulation 67 of the EIA Regulations, 2010 this application will lapse if the applicant (or the EAP on behalf of the applicant) fails to comply with a requirement in terms of the Regulations for a period of six months after having submitted the application, unless the reasons for failure have been communicated to and accepted by this Department.

You are hereby reminded of Section 24F of the National Environmental Management Act, Act No 107 of 1998, as amended, that no activity may commence prior to an environmental authorisation being granted by the Department.

Yours sincerely



**Mr Ishaam Abader**

**Deputy Director-General: Environmental Quality and Protection**

**Department of Environmental Affairs**

**Letter signed by: Ms Nyiko Nkosi**

**Designation: Environmental Officer: Environmental Impact Evaluation**

**Date: 12/03/2012**

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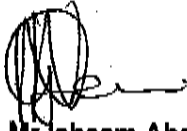
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  - The depth of the soil at each survey point
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  - Limiting factors
  - Clay content
  - Slope of the site
  - A detailed map indicating the locality of the soil forms within the specified area,
  - Size of the site
- Exact locality of the site
- Current activities on the site, developments, buildings
- Surrounding developments / land uses and activities in a radius of 500 m of the site
- Access routes and the condition thereof
- Current status of the land (including erosion, vegetation and a degradation assessment)

- Possible land use options for the site
- Water availability, source and quality (if available)
- Detailed descriptions of why agriculture should or should not be the land use of choice
- Impact of the change of land use on the surrounding area
- A shape file containing the soil forms and relevant attribute data as depicted on the map



## environmental affairs

Department:  
Environmental Affairs  
REPUBLIC OF SOUTH AFRICA

Private Bag X 447 · PRETORIA · 0001 · Fedsure Building · 315 Pretorius Street · PRETORIA  
Tel (+ 27 12) 310 3911 · Fax (+ 2712) 322 2682

NEAS Reference: DEA/EIA/0001068/2012

DEA Reference: 14/12/16/3/3/2/295

Enquiries: Nyiko Nkosi

Tel: 012 395 1694 Fax: 012 320 7539 E-mail: nnkosi@environment.gov.za

Jo-Anne Thomas  
Savannah Environmental (Pty) Ltd  
PO Box 148  
**SUNNINGHILL**  
2157

Fax: 086 684 0547

Tel: 011 234 6621

### PER FACSIMILE / MAIL

Dear Sir

#### **ACKNOWLEDGEMENT OF RECEIPT AND ACCEPTANCE OF NEW APPLICATION FOR ENVIRONMENTAL AUTHORISATION (SCOPING & EIA PROCESS) FOR THE PROPOSED ESTABLISHMENT OF THE KAROSHOEK LFTT2 FACILITY LOCATED ON SITE 5, AS PART OF THE LARGER KAROSHOEK SOLAR VALLEY DEVELOPMENT ON A SITE LOCATED 30KM EAST OF UPINGTON, NORTHERN CAPE**

The Department confirms having received the Application Form and EAP Declaration of Interest on 8 March 2012 for environmental authorisation for the abovementioned project. The Application is accepted.

Please note that the Department will request the delegation of authority from the provincial Department and will notify you with regards to the outcome.

Please include both reference numbers (NEAS Reference and DEA Reference), as listed above, on all documents and correspondence submitted to the Department.

Please note that one hard copy and one electronic copy (saved on CD/DVD) of draft reports, and five hard copies and one electronic copy of final reports must be submitted to the Department.

In addition, please consider the following during compilation of reports for this application for environmental authorisation:

- All applicable Departmental Guidelines must be considered throughout the application process. These can be downloaded from the Department's website: [www.environment.gov.za](http://www.environment.gov.za), Environmental Impact Management button, listed under "EIA Administration": Integrated Environmental Management Information Series link. These include, but are not limited to, the following topics: Scoping, Environmental Impact

Reporting, Stakeholder Engagement, Specialist Studies, Impact Significance, Cumulative Effects Assessments, Alternatives in EIA and Environmental Management Plans.

- Please be advised that in terms of the EIA Regulations and NEMA the investigation of alternatives is mandatory. Alternatives must therefore be identified, investigated to determine if they are feasible and reasonable. It is also mandatory to investigate and assess the option of not proceeding with the proposed activity (the "no-go" option).
- Refer to the attached annexure for specific requirements for the submission of applications for environmental authorisation for solar power generation facilities.
- Should water, solid waste removal, effluent discharge, stormwater management and electricity services be provided by the municipality, you are requested to provide this office with written proof that the municipality has sufficient capacity to provide the necessary services to the proposed development. Confirmation of the availability of services from the service providers must be provided together with the reports to be submitted.
- In the reports to be submitted it must clearly be demonstrated in which way the proposed development will meet the requirements of sustainable development. You must also consider energy efficient technologies and water saving devices and technologies for the proposed development. This could include measures such as the recycling of waste, the use of low voltage or compact fluorescent lights instead of incandescent globes, maximising the use of solar heating, the use of dual flush toilets and low-flow shower heads and taps, the management of storm water, the capture and use of rainwater from gutters and roofs, the use of locally indigenous vegetation during landscaping and the training of staff to implement good housekeeping techniques.
- A detailed and complete EMPr must be submitted with the EIR. This EMPr must not provide recommendations but must indicate actual remediation activities which will be binding on the applicant. Without this EMPr the documents will be regarded as not meeting the requirements and will be returned to the applicant for correction.
- The applicant/EAP is required to inform this Department in writing upon submission of any draft report, of the contact details of the relevant State Departments (that administer laws relating to a matter affecting the environment) to whom copies of the draft report were submitted for comment. Upon receipt of this confirmation, this Department will in accordance with Section 24O(2) & (3) of the National Environmental Management Act, 1998 (Act 107 of 1998) inform the relevant State Departments of the commencement date of the 40 day commenting period, or 60 days in the case of the Department of Water Affairs for waste management activities which also require a licence in terms of the National Water Act, 1998 (Act 36 of 1998).
- Should it be necessary to apply for a permit in terms of the National Heritage Resources Act, 1999 (Act 25 of 1999), please submit the necessary application to SAHRA or the relevant provincial heritage agency and submit proof thereof with the Basic Assessment Report/Environmental Impact Assessment Report. The relevant heritage agency should also be involved during the public participation process and have the opportunity to comment on all the reports to be submitted to this Department.

In terms of regulation 67 of the EIA Regulations, 2010 this application will lapse if the applicant (or the EAP on behalf of the applicant) fails to comply with a requirement in terms of the Regulations for a period of six months after having submitted the application, unless the reasons for failure have been communicated to and accepted by this Department.



You are hereby reminded of Section 24F of the National Environmental Management Act, Act No 107 of 1998, as amended, that no activity may commence prior to an environmental authorisation being granted by the Department.

Yours sincerely



**Mr Ishaam Abader**

**Deputy Director-General: Environmental Quality and Protection**

**Department of Environmental Affairs**

**Letter signed by: Ms Nyiko Nkosi**

**Designation: Environmental Officer: Environmental Impact Evaluation**

**Date: 12/03/2012**

CC:	Pancho Ndebele	FG Emvelo	Tel: 011 523 6299	Fax: 086 519 5138
	Anga Yaphi	DENC	Tel: 053 807 7430	Fax: 053 831 3530
	Godfrey Kuun	Khara Hais Local Municipality	Tel: 054 338 7503	Fax: 054 338 7511

## **A. EIA INFORMATION REQUIRED FOR SOLAR ENERGY FACILITIES**

### **1. General site information**

The following general site information is required:

- Descriptions of all affected farm portions
- 21 digit Surveyor General codes of all affected farm portions
- Copies of deeds of all affected farm portions
- Photos of areas that give a visual perspective of all parts of the site
- Photographs from sensitive visual receptors (tourism routes, tourism facilities, etc.)
- Solar plant design specifications including:
  - Type of technology
  - Structure height
  - Surface area to be covered (including associated infrastructure such as roads)
  - Structure orientation
  - Laydown area dimensions (construction period and thereafter)
  - Generation capacity
- Generation capacity of the facility as a whole at delivery points

This information must be indicated on the first page of any Scoping or EIA document. It is also advised that it be double checked as there are too many mistakes in the applications that have been received that take too much time from authorities to correct.

### **2. Site maps and GIS information**

Site maps and GIS information should include at least the following:

- All maps/information layers must also be provided in ESRI Shapefile format
- All affected farm portions must be indicated
- The exact site of the application must be indicated (the areas that will be occupied by the application)
- A status quo map/layer must be provided that includes the following:
  - Current use of land on the site including:
    - Buildings and other structures
    - Agricultural fields
    - Grazing areas
    - Natural vegetation areas (natural veld not cultivated for the preceding 10 years) with an indication of the vegetation quality as well as fine scale mapping in respect of Critical Biodiversity Areas and Ecological Support Areas
    - Critically endangered and endangered vegetation areas that occur on the site
    - Bare areas which may be susceptible to soil erosion
    - Cultural historical sites and elements
  - Rivers, streams and water courses
  - Ridgelines and 20m continuous contours with height references in the GIS database
  - Fountains, boreholes, dams (in-stream as well as off-stream) and reservoirs

- High potential agricultural areas as defined by the Department of Agriculture, Forestry and Fisheries
- Buffer zones (also where it is dictated by elements outside the site):
  - 500m from any irrigated agricultural land
  - 1km from residential areas
- Indicate isolated residential, tourism facilities on or within 1km of the site
- A slope analysis map/layer that include the following slope ranges:
  - Less than 8% slope
  - between 8% and 12% slope
  - between 12% and 14% slope
  - steeper than 18 % slope
- A map/layer that indicate locations of birds and bats including roosting and foraging areas (specialist input required)
- A site development proposal map(s)/layer(s) that indicate:
  - Positions of solar facilities
  - Foundation footprint
  - Permanent laydown area footprint
  - Construction period laydown footprint
  - 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)
  - River, stream and water crossing of roads and cables indicating the type of bridging structures that will be used
  - Substation(s) and/or transformer(s) sites including their entire footprint.
  - Cable routes and trench dimensions (where they are not along internal roads)
  - Connection routes to the distribution/transmission network (the connection must form part of the EIA even if the construction and maintenance thereof will be done by another entity such as ESKOM)
  - Cut and fill areas along roads and at substation/transformer sites indicating the expected volume of each cut and fill
  - Borrow pits
  - Spoil heaps (temporary for topsoil and subsoil and permanently for excess material)
  - Buildings including accommodation

With the above information authorities will be able to assess the strategic and site impacts of applications.

### 3. Regional map and GIS information

The regional map and GIS information should include at least the following:

- All maps/information layers must also be provided in ESRI Shapefile format
- The map/layer must cover an area of 20km around the site
- Indicate the following:
  - roads including their types (tarred or gravel) and category (national, provincial, local or private)
  - Railway lines and stations
  - Industrial areas
  - Harbours and airports
  - Electricity transmission and distribution lines and substations

- Pipelines
- Waters sources to be utilised during the construction and operational phases
- A visibility assessment of the areas from where the facility will be visible
- Critical Biodiversity Areas and Ecological Support Areas
- Critically Endangered and Endangered vegetation areas
- Agricultural fields
- Irrigated areas
- An indication of new road or changes and upgrades that must be done to existing roads in order to get equipment onto the site including cut and fill areas and crossings of rivers and streams

#### 4. Important stakeholders

Amongst other important stakeholders, comments from the National Department of Agriculture, Forestry and Fisheries must be obtained and submitted to the Department. Request for comment must be submitted to:

Mrs. Anneliza Collett  
 Directorate: Land Use & Soil Management  
 Department of Agriculture, Forestry & Fisheries  
 Tel: 012 - 319 7508  
 Fax: 012 - 329 5938  
 e-mail: AnnelizaC@nda.agric.za  
 www.agis.agric.za

In addition, comments must be requested from Eskom (Mr Kevin Leask or Mr Ronald Marais (011) 8008111) regarding grid connectivity and capacity.

#### **B. AGRICULTURE STUDY REQUIREMENTS**

- Detailed soil assessment of the site in question, incorporating a radius of 50 m surrounding the site, on a scale of 1:10 000 or finer. The soil assessment should include the following:
  - Identification of the soil forms present on site
  - The size of the area where a particular soil form is found
  - GPS readings of soil survey points
  - The depth of the soil at each survey point
  - Soil colour
  - Limiting factors
  - Clay content
  - Slope of the site
  - A detailed map indicating the locality of the soil forms within the specified area,
  - Size of the site
- Exact locality of the site
- Current activities on the site, developments, buildings
- Surrounding developments / land uses and activities in a radius of 500 m of the site
- Access routes and the condition thereof
- Current status of the land (including erosion, vegetation and a degradation assessment)

- Possible land use options for the site
- Water availability, source and quality (if available)
- Detailed descriptions of why agriculture should or should not be the land use of choice
- Impact of the change of land use on the surrounding area
- A shape file containing the soil forms and relevant attribute data as depicted on the map



## **environmental affairs**

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Private Bag X 447 · PRETORIA · 0001 · Fedsure Building · 315 Pretorius Street · PRETORIA  
Tel (+ 27 12) 310 3911 · Fax (+ 2712) 322 2682

**NEAS Reference:** DEA/EIA/0001075/2012

**DEA Reference:** 14/12/16/3/3/2/288

**Enquiries:** Nyiko Nkosi

**Tel:** 012 395 1694 **Fax:** 012 320 7539 **E-mail:** nnkosi@environment.gov.za

Jo-Anne Thomas  
Savannah Environmental (Pty) Ltd  
PO Box 148  
**SUNNINGHILL**  
2157

**Fax:** 086 684 0547

**Tel:** 011 234 6621

### **PER FACSIMILE / MAIL**

Dear Sir

#### **ACKNOWLEDGEMENT OF RECEIPT AND ACCEPTANCE OF NEW APPLICATION FOR ENVIRONMENTAL AUTHORISATION (SCOPING & EIA PROCESS) FOR THE PROPOSED ESTABLISHMENT OF THE KAROSHOEK GRID INTEGRATION INFRASTRUCTURE, AS PART OF THE LARGER KAROSHOEK SOLAR VALLEY DEVELOPMENT ON A SITE LOCATED 30KM EAST OF UPINGTON, NORTHERN CAPE**

The Department confirms having received the Application Form and EAP Declaration of Interest on 8 March 2012 for environmental authorisation for the abovementioned project. The Application is accepted.

Please note that the Department will request the delegation of authority from the provincial Department and will notify you with regards to the outcome.

Please include both reference numbers (NEAS Reference and DEA Reference), as listed above, on all documents and correspondence submitted to the Department.

Please note that one hard copy and one electronic copy (saved on CD/DVD) of draft reports, and five hard copies and one electronic copy of final reports must be submitted to the Department.

In addition, please consider the following during compilation of reports for this application for environmental authorisation:

- All applicable Departmental Guidelines must be considered throughout the application process. These can be downloaded from the Department's website: [www.environment.gov.za](http://www.environment.gov.za), Environmental Impact Management button, listed under "EIA Administration": Integrated Environmental Management Information Series link. These include, but are not limited to, the following topics: Scoping, Environmental Impact

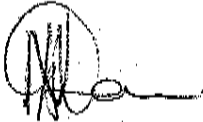
Reporting, Stakeholder Engagement, Specialist Studies, Impact Significance, Cumulative Effects Assessments, Alternatives in EIA and Environmental Management Plans.

- Please be advised that in terms of the EIA Regulations and NEMA the investigation of alternatives is mandatory. Alternatives must therefore be identified, investigated to determine if they are feasible and reasonable. It is also mandatory to investigate and assess the option of not proceeding with the proposed activity (the "no-go" option).
- Should water, solid waste removal, effluent discharge, stormwater management and electricity services be provided by the municipality, you are requested to provide this office with written proof that the municipality has sufficient capacity to provide the necessary services to the proposed development. Confirmation of the availability of services from the service providers must be provided together with the reports to be submitted.
- In the reports to be submitted it must clearly be demonstrated in which way the proposed development will meet the requirements of sustainable development. You must also consider energy efficient technologies and water saving devices and technologies for the proposed development. This could include measures such as the recycling of waste, the use of low voltage or compact fluorescent lights instead of incandescent globes, maximising the use of solar heating, the use of dual flush toilets and low-flow shower heads and taps, the management of storm water, the capture and use of rainwater from gutters and roofs, the use of locally indigenous vegetation during landscaping and the training of staff to implement good housekeeping techniques.
- A detailed and complete EMPr must be submitted with the EIR. This EMPr must not provide recommendations but must indicate actual remediation activities which will be binding on the applicant. Without this EMPr the documents will be regarded as not meeting the requirements and will be returned to the applicant for correction.
- The applicant/EAP is required to inform this Department in writing upon submission of any draft report, of the contact details of the relevant State Departments (that administer laws relating to a matter affecting the environment) to whom copies of the draft report were submitted for comment. Upon receipt of this confirmation, this Department will in accordance with Section 24O(2) & (3) of the National Environmental Management Act, 1998 (Act 107 of 1998) inform the relevant State Departments of the commencement date of the 40 day commenting period, or 60 days in the case of the Department of Water Affairs for waste management activities which also require a licence in terms of the National Water Act, 1998 (Act 36 of 1998).
- Should it be necessary to apply for a permit in terms of the National Heritage Resources Act, 1999 (Act 25 of 1999), please submit the necessary application to SAHRA or the relevant provincial heritage agency and submit proof thereof with the Basic Assessment Report/Environmental Impact Assessment Report. The relevant heritage agency should also be involved during the public participation process and have the opportunity to comment on all the reports to be submitted to this Department.

In terms of regulation 67 of the EIA Regulations, 2010 this application will lapse if the applicant (or the EAP on behalf of the applicant) fails to comply with a requirement in terms of the Regulations for a period of six months after having submitted the application, unless the reasons for failure have been communicated to and accepted by this Department.

You are hereby reminded of Section 24F of the National Environmental Management Act, Act No 107 of 1998, as amended, that no activity may commence prior to an environmental authorisation being granted by the Department.

Yours sincerely



**Mr Ishaam Abader**

**Deputy Director-General: Environmental Quality and Protection**

**Department of Environmental Affairs**

**Letter signed by: Ms Nyiko Nkosi**

**Designation: Environmental Officer: Environmental Impact Evaluation**

**Date: 12/03/2012**

CC:	Pancho Ndebele	FG Emvelo	Tel: 011 523 6299	Fax: 086 519 5138
	Anga Yaphi	DENC	Tel: 053 807 7430	Fax: 053 831 3530
	Godfrey Kuun	Khara Hais Local Municipality	Tel: 054 338 7503	Fax: 054 338 7511





## environmental affairs

Department:  
Environmental Affairs  
REPUBLIC OF SOUTH AFRICA

Private Bag X 447 · PRETORIA · 0001 · Fedsure Building · 315 Pretorius Street · PRETORIA  
Tel (+ 27 12) 310 3911 · Fax (+ 2712) 322 2682

Reference: 14/12/16/3/3/2/288 – 14/12/16/3/3/2/299

Enquiries: Takalani Maswime

Tel: 012 310 3780 Fax: 012 320 7539 E-mail: tmaswime@environment.gov.za

Alicia Govender  
Savannah Environmental (Pty) Ltd  
PO Box 148  
**SUNNINGHILL**  
2157

Fax: 086 684 0547

**PER FACSIMILE / MAIL**

Dear Sir/Madam

### **ACKNOWLEDGEMENT OF RECEIPT OF THE DRAFT SCOPING REPORTS FOR THE PROPOSED KAROSHOEK SOLAR VALLEY DEVELOPMENT, NORTHERN CAPE PROVINCE**

The Department confirms having received the Draft Scoping Reports dated March 2012 – April 2012 for the above-mentioned project on 28 March 2012.

Please note that the Department will start reviewing once the final Scoping Reports are received.

You are hereby reminded that the activity may not commence prior to an environmental authorisation being granted by the Department.

Yours sincerely

Mr Ishaam Abader

Deputy Director-General: Environmental Quality and Protection  
Department of Environmental Affairs

Letter signed by: Ms Mmatlala Rabothata

Designation: PEO: Environmental Impact Evaluation

Date: 13/04/2012



## environmental affairs

Department:  
Environmental Affairs  
REPUBLIC OF SOUTH AFRICA

Private Bag X 447 · PRETORIA · 0001 · Fedsure Building · 315 Pretorius Street · PRETORIA  
Tel (+ 27 12) 310 3911 · Fax (+ 2712) 322 2682

Reference: 14/12/16/3/3/2/288-299

Enquiries: Takalani Maswime

Tel: 012 310 3780 Fax: 012 320 7539 E-mail: tmaswime@environment.gov.za

Alicia Govender  
Savannah Environmental (Pty) Ltd  
PO Box 148  
**SUNNINGHILL**  
Gauteng  
2157

Fax: 086 684 0547

PER FACSIMILE / MAIL

Dear Ms Govender

### **ACKNOWLEDGEMENT OF RECEIPT OF THE FINAL SCOPING REPORT FOR THE PROPOSED KAROSHOEK SOLAR VALLEY DEVELOPMENT, NORTHERN CAPE PROVINCE**

The Department confirms having received the final Scoping Report dated April 2012 for the above-mentioned project on 09 May 2012.

You are hereby reminded that the activity may not commence prior to an environmental authorisation being granted by the Department.

Yours sincerely

  
Mr Ishaam Abader

Deputy Director-General: Environmental Quality and Protection  
Department of Environmental Affairs

Letter signed by: Ms Mmatlala Rabothata

Designation: PEO: Environmental Impact Evaluation

Date: 14/05/2012 .



## **environmental affairs**

Department  
Environmental Affairs  
**REPUBLIC OF SOUTH AFRICA**

Private Bag X 447 · PRETORIA · 0001 · Fedsure Building · 315 Pretorius Street · PRETORIA  
Tel (+ 27 12) 310 3911 · Fax (+ 2712) 322 2682

**NEAS Reference:** DEA/EIA/0001070/2012

**DEA Reference:** 14/12/16/3/3/2/293

**Enquiries:** Oscar Makhale

**Telephone:** 012-395-1772 **Fax:** 012-320-7539 **E-mail:** [omakhale@environment.gov.za](mailto:omakhale@environment.gov.za)

Ms Jo-Anne Thomas  
Savannah Environmental (Pty) Ltd  
PO Box 148  
**SUNNINGHILL**  
2157

Fax No: 086 684 0547

Tel No: 011 234 6621

### **PER FACSIMILE / MAIL**

Dear Ms Thomas

**APPLICATION FOR ENVIRONMENTAL AUTHORISATION: PROPOSED ESTABLISHMENT OF THE KAROSHOK LINEAR FRESNEL (LF) 1 FACILITY ON SITE 1.1 LOCATED ON FARM PORTION 0 OF ZANDEMM 944 AND PORTION 3 OF ANNASHOEK 41, AS PART OF THE LARGER KAROSHOK SOLAR VALLEY DEVELOPMENT, 30KM EAST OF UPINGTON, WITHIN THE KHARA HAIS LOCAL MUNICIPALITY IN THE NORTHERN CAPE PROVINCE.**

The Final Scoping Report (FSR) and the Plan of Study for Environmental Impact Assessment (PoSEIA) dated April 2012 and received by the Department on 09 May 2012 refer.

The Department has evaluated the submitted FSR and the PoSEIA dated April 2012 and is satisfied that the documents comply with the minimum requirements of the Environmental Impact Assessment (EIA) Regulations, 2010. The FSR is hereby accepted by the Department in terms of regulation 30(1)(a) of the EIA Regulations, 2010.

You may proceed with the environmental impact assessment process in accordance with the tasks contemplated in the Plan of Study for Environmental Impact Assessment as required in terms of the EIA Regulations, 2010.

Please ensure that comments from all relevant stakeholders are submitted to the Department with the Final Environmental Impact Report (EIR). This includes but is not limited to the Northern Cape Department of Environment and Nature Conservation (NCDENC); Northern Cape Department of Agriculture and Land Reform (NCDALR), Heritage Northern Cape (HNC); Department of Agriculture, Forestry and Fisheries (DAFF); Department of Water Affairs (DWA); Northern Cape Department of Transport, Roads and Public Works (NCDTRPW); South African Heritage Resources Agency (SAHRA); South African National Road Agency Limited (SANRAL); Wildlife and Environment Society of South Africa (WESSA); Khara Hais Local Municipality and Siyanda District Municipality.

Proof of correspondence with the various stakeholders must be included in the Final EIR. Should you be unable to obtain comments, proof should be submitted to the Department of the attempts that were made to obtain comments.

You are required to provide clarity on whether the proposed development falls within the site or portions which were previously investigated for the establishment of a Parabolic Trough Plant with a capacity of up to 125MW, known as Project Ilanga (DEA Ref No: 12/12/20/2056). Kindly clarify any linkage between the two projects as well as the current status of the Project Ilanga (DEA Ref No: 12/12/20/2056) in terms of implementation.

It is noted that the proposed facility will include water treatment facility, storage reservoirs and evaporation ponds. Therefore, you are advised to contact this Department's Authorisations and Waste Permitting Directorate for clarity as whether Waste Management Licence is required.

Please be advised that not all the activities applied for in the Application Form dated 20 February 2012 are specific and applicable with reference to the project description in the FSR received on 09 May 2012. You are thus requested to amend the application form such that:

- Listing notice activities applied for are specific; and
- Listing notice activity applied for can be linked to the development activity or infrastructure in the project description.

The EAP must, in order to give effect to regulation 56 (2), before submitting the final environmental impact assessment report to the Department give registered interested and affected parties access to, and an opportunity to comment on the report in writing within 21 days.

Please ensure that the Final EIR includes at least one A3 regional map of the area and the site layout plan to illustrate the Concentrating Solar Power (CSP) facilities and associated infrastructure. The maps must be of acceptable quality and as a minimum, have the following attributes:

- Maps are relatable to one another;
- Cardinal points;
- Co-ordinates;
- Legible legends;
- Indicate alternatives;
- Latest land cover;
- Vegetation types of the study area; and
- A3 size locality map.

You are required to submit the final site layout plan together with the Final EIR to the Department. All available biodiversity information must be used in the finalisation of the layout plan. The site layout plan must indicate the following:

- Positions of solar facilities;
- Foundation footprint;
- Permanent laydown area footprint;
- Construction period laydown footprint;
- 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);
- Wetlands, drainage lines, rivers, stream and water crossing of roads and cables indicating the type of bridging structures that will be used;

- The location of Heritage sites;
- Sub-station(s) and/or transformer(s) sites including their entire footprint;
- Cable routes and trench dimensions (where they are not along internal roads);
- Connection routes (including pylon positions) to the distribution/transmission network;
- Cut and fill areas at CSP sites, along roads and at sub-station/transformer sites indicating the expected volume of each cut and fill;
- Borrow pits;
- Spoil heaps (temporary for topsoil and subsoil and permanently for excess material);
- All existing infrastructure on the site, especially roads;
- Buildings including accommodation;
- All "no-go" areas; and
- A map combining the final layout plan must be superimposed (overlain) on the environmental sensitivity map.

The Environmental Management Programme (EMPr) submitted as part of the application for environmental authorisation must include the following:

- 1.1 All recommendations and mitigation measures to be recorded in the Final EIR.
- 1.2 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 and be implemented prior to commencement of the construction phase.
- 1.3 An open space management plan to be implemented during the construction and operation of the facility.
- 1.4 A re-vegetation and habitat rehabilitation plan to be implemented during the construction and operation of the facility including timeframes for restoration which must indicate rehabilitation within the shortest possible time 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.
- 1.5 An alien invasive management plan to be implemented during construction and operation of the facility. The plan must include mitigation measures to reduce the invasion of alien species and ensure that the continuous monitoring and removal of alien species is undertaken.
- 1.6 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.
- 1.7 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.
- 1.8 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.
- 1.9 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.

- 1.10 An environmental sensitivity map indicating environmental sensitive areas and features identified during the EIA process.
- 1.11 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.

The applicant is hereby reminded to comply with the requirements of regulation 67 with regard to the time period allowed for complying with the requirements of the Regulations, and regulations 56 and 57 with regard to the allowance of a comment period for interested and affected parties on all reports submitted to the competent authority for decision-making. The reports referred to are listed in regulation 56(3a-3h).

Further, it must be reiterated that, should an application for Environmental Authorisation be subject to the provisions of Chapter II, Section 38 of the National Heritage Resources Act, Act 25 of 1999, then this Department will not be able to make nor issue a decision in terms of your application for Environmental Authorisation pending a letter from the pertinent heritage authority categorically stating that the application fulfils the requirements of the relevant heritage resources authority as described in Chapter II, Section 38(8) of the National Heritage Resources Act, Act 25 of 1999.

You are requested to submit two electronic copies (CD/DVD) and two (2) hard copies of both the Draft and Final EIR to the Department as per regulation 34(1)(b) of the EIA Regulations, 2010.

You are hereby reminded of Section 24F of the National Environmental Management Act, Act No 107 of 1998, as amended, that no activity may commence prior to an environmental authorisation being granted by the Department.

Yours sincerely



**Mr Ishaam Abader**  
**Deputy-Director General: Legal, Authorisations, Compliance and Enforcement**  
**Department of Environmental Affairs**  
**Letter signed by: Mr Danie Smit**  
**Designation: Acting-Director: Integrated Environmental Authorisations**

**Date:** 20/06/2012

CC:	Mr. P Ndebele	FG Emvelo	Fax: (086) 519 5138
	Mr. A Yaphi	Northern Cape Department of Environment and Nature Conservation	Fax: (053) 831 3530
	Mr. G Kuun	Khara Hais Local Municipality	Fax: (054) 338 7511



## **environmental affairs**

Department  
Environmental Affairs  
**REPUBLIC OF SOUTH AFRICA**

Private Bag X 447 · PRETORIA · 0001 · Fedsure Building · 315 Pretorius Street · PRETORIA  
Tel (+ 27 12) 310 3911 · Fax (+ 2712) 322 2682

**NEAS Reference:** DEA/EIA/0001069/2012

**DEA Reference:** 14/12/16/3/3/2/294

**Enquiries:** Oscar Makhale

**Telephone:** 012-395-1772 **Fax:** 012-320-7539 **E-mail:** [omakhale@environment.gov.za](mailto:omakhale@environment.gov.za)

Ms Jo-Anne Thomas  
Savannah Environmental (Pty) Ltd  
PO Box 148  
**SUNNINGHILL**  
2157

Fax No: 086 684 0547

Tel No: 011 234 6621

### **PER FACSIMILE / MAIL**

Dear Ms Thomas

**APPLICATION FOR ENVIRONMENTAL AUTHORISATION: ESTABLISHMENT OF THE KAROSHOEK PARABOLIC TROUGH (PT) FACILITY ON SITE 1.3 LOCATED ON FARM PORTION 0 OF ZANDEMM 944, AS PART OF THE LARGER KAROSHOEK SOLAR VALLEY DEVELOPMENT, 30KM EAST OF UPINGTON, WITHIN THE KHARA HAIS LOCAL MUNICIPALITY IN THE NORTHERN CAPE PROVINCE**

The Final Scoping Report (FSR) and the Plan of Study for Environmental Impact Assessment (PoSEIA) dated April 2012 and received by the Department on 09 May 2012 refer.

The Department has evaluated the submitted FSR and the PoSEIA dated April 2012 and is satisfied that the documents comply with the minimum requirements of the Environmental Impact Assessment (EIA) Regulations, 2010. The FSR is hereby accepted by the Department in terms of regulation 30(1)(a) of the EIA Regulations, 2010.

You may proceed with the environmental impact assessment process in accordance with the tasks contemplated in the Plan of Study for Environmental Impact Assessment as required in terms of the EIA Regulations, 2010.

Please ensure that comments from all relevant stakeholders are submitted to the Department with the Final Environmental Impact Report (EIR). This includes but is not limited to the Northern Cape Department of Environment and Nature Conservation (NCDENC); Northern Cape Department of Agriculture and Land Reform (NCDALR), Heritage Northern Cape (HNC); Department of Agriculture, Forestry and Fisheries (DAFF); Department of Water Affairs (DWA); Northern Cape Department of Transport, Roads and Public Works (NCDTRPW); South African Heritage Resources Agency (SAHRA); South African Road Agency Limited (SANRAL); Wildlife and Environment Society of South Africa (WESSA); Khara Hais Local Municipality and Siyanda District Municipality.

Proof of correspondence with the various stakeholders must be included in the Final EIR. Should you be unable to obtain comments, proof should be submitted to the Department of the attempts that were made to obtain comments.

You are required to provide clarity on whether the proposed development falls within the site or portions which were previously investigated for the establishment of a Parabolic Trough Plant with a capacity of up to 125MW, known as Project Ilanga (DEA Ref No: 12/12/20/2056). Kindly clarify any linkage between the two projects as well as the current status of the Project Ilanga (DEA Ref No: 12/12/20/2056) in terms of implementation.

It is noted that the proposed facility will include water treatment facility, storage reservoirs and evaporation ponds. Therefore, you are advised to contact this Department's Authorisations and Waste Permitting Directorate for clarity as whether Waste Management Licence is required.

Please be advised that not all the activities applied for in the Application Form dated 20 February 2012 are specific and applicable with reference to the project description in the FSR received on 09 May 2012. You are thus requested to amend the application form such that:

- Listing notice activities applied for are specific; and
- Listing notice activity applied for can be linked to the development activity or infrastructure in the project description.

The EAP must, in order to give effect to regulation 56 (2), before submitting the final environmental impact assessment report to the Department give registered interested and affected parties access to, and an opportunity to comment on the report in writing within 21 days.

Please ensure that the Final EIR includes at least one A3 regional map of the area and the site layout plan to illustrate the Concentrating Solar Power (CSP) facilities and associated infrastructure. The maps must be of acceptable quality and as a minimum, have the following attributes:

- Maps are relatable to one another;
- Cardinal points;
- Co-ordinates;
- Legible legends;
- Indicate alternatives;
- Latest land cover;
- Vegetation types of the study area; and
- A3 size locality map.

You are required to submit the final site layout plan together with the Final EIR to the Department. All available biodiversity information must be used in the finalisation of the layout plan. The site layout plan must indicate the following:

- Positions of solar facilities;
- Foundation footprint;
- Permanent laydown area footprint;
- Construction period laydown footprint;
- 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);
- Wetlands, drainage lines, rivers, stream and water crossing of roads and cables indicating the type of bridging structures that will be used;



- The location of Heritage sites;
- Sub-station(s) and/or transformer(s) sites including their entire footprint;
- Cable routes and trench dimensions (where they are not along internal roads);
- Connection routes (including pylon positions) to the distribution/transmission network;
- Cut and fill areas at CSP sites, along roads and at sub-station/transformer sites indicating the expected volume of each cut and fill;
- Borrow pits;
- Spoil heaps (temporary for topsoil and subsoil and permanently for excess material);
- All existing infrastructure on the site, especially roads;
- Buildings including accommodation;
- All "no-go" areas; and
- A map combining the final layout plan must be superimposed (overlain) on the environmental sensitivity map.

The Environmental Management Programme (EMPr) submitted as part of the application for environmental authorisation must include the following:

- 1.1 All recommendations and mitigation measures to be recorded in the Final EIR.
- 1.2 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 and be implemented prior to commencement of the construction phase.
- 1.3 An open space management plan to be implemented during the construction and operation of the facility.
- 1.4 A re-vegetation and habitat rehabilitation plan to be implemented during the construction and operation of the facility including timeframes for restoration which must indicate rehabilitation within the shortest possible time 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.
- 1.5 An alien invasive management plan to be implemented during construction and operation of the facility. The plan must include mitigation measures to reduce the invasion of alien species and ensure that the continuous monitoring and removal of alien species is undertaken.
- 1.6 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.
- 1.7 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.
- 1.8 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.
- 1.9 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.

- 1.10 An environmental sensitivity map indicating environmental sensitive areas and features identified during the EIA process.
- 1.11 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.

The applicant is hereby reminded to comply with the requirements of regulation 67 with regard to the time period allowed for complying with the requirements of the Regulations, and regulations 56 and 57 with regard to the allowance of a comment period for interested and affected parties on all reports submitted to the competent authority for decision-making. The reports referred to are listed in regulation 56(3a-3h).

Further, it must be reiterated that, should an application for Environmental Authorisation be subject to the provisions of Chapter II, Section 38 of the National Heritage Resources Act, Act 25 of 1999, then this Department will not be able to make nor issue a decision in terms of your application for Environmental Authorisation pending a letter from the pertinent heritage authority categorically stating that the application fulfils the requirements of the relevant heritage resources authority as described in Chapter II, Section 38(8) of the National Heritage Resources Act, Act 25 of 1999.

You are requested to submit two electronic copies (CD/DVD) and two (2) hard copies of both the Draft and Final EIR to the Department as per regulation 34(1)(b) of the EIA Regulations, 2010.

You are hereby reminded of Section 24F of the National Environmental Management Act, Act No 107 of 1998, as amended, that no activity may commence prior to an environmental authorisation being granted by the Department.

Yours sincerely



**Mr Ishaam Abader**

**Deputy-Director General: Legal, Authorisations, Compliance and Enforcement  
Department of Environmental Affairs**

**Letter signed by: Mr Danie Smit**

**Designation: Acting Director: Integrated Environmental Authorisations**

**Date: 20/06/2012**

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**NEAS Reference:** DEA/EIA/0001064/2012  
DEA/EIA/0001065/2012  
DEA/EIA/0001066/2012  
DEA/EIA/0001067/2012  
DEA/EIA/0001068/2012

**DEA Reference:** 14/12/16/3/3/2/299, 298, 297, 296 & 295

**Enquiries:** Oscar Makhale

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2157

Fax No: 086 684 0547

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### **PER FACSIMILE / MAIL**

Dear Ms Thomas

**APPLICATION FOR ENVIRONMENTAL AUTHORISATION: PROPOSED ESTABLISHMENT OF THE KAROSHOK CONCENTRATING SOLAR POWER (CSP) FACILITIES ON SITES 1.4, 3, 4, & 5 LOCATED ON THE FARMS PORTION 3 OF ANNASHOEK 41, PORTION 0 OF ZANDEMM 944 AND PORTION 2 OF MATJIESRIVIER 41, AS PART OF THE LARGER KAROSHOK SOLAR VALLEY DEVELOPMENT, 30KM EAST OF UPINGTON, WITHIN THE KHARA HAIS LOCAL MUNICIPALITY IN THE NORTHERN CAPE PROVINCE**

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(SAHRA); South African National Road Agency Limited (SANRAL); Wildlife and Environment Society of South Africa (WESSA); Khara Hais Local Municipality and Siyanda District Municipality.

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Please ensure that the Final EIR includes at least one A3 regional map of the area and the site layout plan to illustrate the Concentrating Solar Power (CSP) facilities and associated infrastructure. The maps must be of acceptable quality and as a minimum, have the following attributes:

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- Vegetation types of the study area; and
- A3 size locality map.

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- Sub-station(s) and/or transformer(s) sites including their entire footprint;
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**Deputy-Director General: Legal, Authorisations, Compliance and Enforcement**  
**Department of Environmental Affairs**  
**Letter signed by: Mr Danie Smit**  
**Designation: Acting-Director: Integrated Environmental Authorisations**  
**Date: 19/06/2012.**

CC:	Mr. P Ndebele	FG Emvelo	Fax: (086) 519 5138
	Mr. A Yaphi	Northern Cape Department of Environment and Nature Conservation	Fax: (053) 831 3530
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### **PER FACSIMILE / MAIL**

Dear Ms Thomas

**APPLICATION FOR ENVIRONMENTAL AUTHORISATION: PROPOSED ESTABLISHMENT OF THE KAROSHÖEK CONCENTRATING PHOTOVOLTAICS OR PARABOLIC DISH (CPVPD) 1-4 FACILITIES SITE 2 ON FARM PORTION 0 OF KAROS 959, AS A PART OF THE LARGER KAROSHÖEK SOLAR VALLEY DEVELOPMENT, 30KM EAST OF UPINGTON, WITHIN THE KHARA HAIS LOCAL MUNICIPALITY IN THE NORTHERN CAPE PROVINCE**

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