



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

APPLICATION FORM FOR ENVIRONMENTAL AUTHORISATION

	(For official use only)
File Reference Number:	12/12/20/
NEAS Reference Number:	DEAT/EIA/
Date Received:	

Application for authorisation in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment Regulations, 2010

PROJECT TITLE

Proposed Photovoltaic (Solar) Energy Plant on Farm Klipgats Pan near Copperton, Northern Cape

Kindly note that:

1. This application form is current as of 2 August 2010. It is the responsibility of the applicant to ascertain whether subsequent versions of the form have been published or produced by the competent authority.
2. The application must be typed within the spaces provided in the form. The sizes of the spaces provided are not necessarily indicative of the amount of information to be provided. Spaces are provided in tabular format and will extend automatically when each space is filled with typing.
3. Where applicable **black out** the boxes that are not applicable in the form.
4. Incomplete applications may be returned to the applicant for revision.
5. The use of the phrase "not applicable" in the form must be done with circumspection. Should it be done in respect of material information required by the competent authority for assessing the application, it may result in the rejection of the application as provided for in the Regulations.
6. This application must be handed in at the offices of the relevant competent authority as determined by the Act and regulations.
7. No faxed or e-mailed applications will be accepted.
8. Unless protected by law, all information filled in on this application will become public information on receipt by the competent authority. Any interested and affected party should be provided with the information contained in this application on request, during any stage of the application process.
9. Should a specialist report or report on a specialised process be submitted at any stage for any part of this application, the terms of reference for such report must also be submitted.

Queries must be addressed to the contact hereunder:

Departmental Details

Postal address:

Department of Environmental Affairs
Attention: Director: Environmental Impact Evaluation
Private Bag X447
Pretoria
0001

Physical address:

Department of Environmental Affairs
Fedsure Forum Building (corner of Pretorius and Van der Walt Streets)
2nd Floor North Tower
315 Pretorius Street
Pretoria
0002

Queries should be directed to the Directorate: Environmental Impact Evaluation at:

Tel: 012-310-3268
Fax: 012-320-7539

Please note that this form must be copied to the relevant provincial environmental department/s.

View the Department's website at <http://www.deat.gov.za/> for the latest version of the documents.

SITE IDENTIFICATION AND LINKAGE

Please indicate all the Surveyor-general 21 digit site (erf/farm/portion) reference numbers for all sites (including portions of sites) that are part of the application.

C	0	6	0	0	0	0	0	0	0	0	0	0	1	1	7	0	0	0	0	4
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(if there are more than 6, please attach a list with the rest of the numbers)

(These numbers will be used to link various different applications, authorisations, permits etc. that may be connected to a specific site)

PROJECT TITLE

Proposed Photovoltaic (Solar) Energy Plant on Farm Klipgats Pan near Copperton, Northern Cape

1. BACKGROUND INFORMATION

Project applicant:	Mulilo Renewable Energy (Pty) Ltd		
Trading name (if any):	-		
Contact person:	Warren Morse		
Physical address:	Office 301 Execujet Business Centre, Tower Road, Cape Town International Airport		
Postal address:	PO Box 50, Cape Town International Airport		
Postal code:	7525	Cell:	083 760 9586
Telephone:	021 934 5278	Fax:	021 935 0505
E-mail:	warren@mulilo.com		

Provincial Authority:	Northern Cape Department of Environmental Affairs and Nature Conservation		
Contact person:	Ms Anga Yaphi		
Postal address:	Private Bag X6102, Kimberley		
Postal code:	8300	Cell:	079 695 0267
Telephone:	054 332 2885	Fax:	054 331 1155
E-mail:	ayaphi@upprov.ncape.gov.za		

Landowner :	Farm Klipgats Pan (Portion 4 of Farm 117)		
Contact person:	Bernard Jemima Josina		
Postal address:	P O Box 39, Carnarvon		
Postal code:	8925	Cell:	084 619 3940
Telephone:	053 383 3051	Fax:	-
E-mail:	-		

Local authority in whose jurisdiction the proposed activity will fall:	Siyathemba Local Municipality		
Nearest town or districts:	Copperton, Northern Cape		
Contact person:	The Municipal Manager		
Postal address:	P O Box 16, Prieska		
Postal code:	8940	Cell:	-
Telephone:	053 353 5300	Fax:	053 353 1386
E-mail:	psk.muni@prieska.co.za		

2. ACTIVITIES APPLIED FOR TO BE AUTHORISED

2.1 For an application for authorisation that involves more than one listed or specified activity that, together, make up one development proposal, all the listed activities pertaining to this application must be indicated.

Indicate the number and date of the relevant notice: Activity No (s) (in terms of the relevant notice) : Describe each listed activity as per project description¹:

545, 18 June 2010	1	Construction of a 100 MW photovoltaic solar energy plant on 300 ha of farm Klippgats Pan (Portion 4 of Farm 117) near Copperton in the Northern Cape.
544, 18 June 2010	10	A 132 kV distribution line would be required to connect into Eskom's Kronos substation.

Please note that any authorisation that may result from this application will only cover activities specifically applied for.

2.2 A project schedule, indicating the different phases and timelines of the project, must be attached to this application form.

Please refer to Annexure A.

3. OTHER AUTHORISATIONS REQUIRED

3.1 DO YOU NEED ANY AUTHORISATIONS IN TERMS OF ANY OF THE FOLLOWING LAWS?

- 3.1.1 National Environmental Management: Waste Act No
- 3.1.2 National Environmental Management: Air Quality Act No
- 3.1.3 National Environmental Management: Protected Areas Act No
- 3.1.4 National Environmental Management: Biodiversity Act No
- 3.1.5 Mineral Petroleum Development Resources Act No
- 3.1.6 National Water Act No
- 3.1.7 National Heritage Resources Act Yes
- 3.1.8 Other (please specify) No

3.2 Have such applications been lodged already? No

¹ Please note that this description should not be a verbatim repetition of the listed activity as contained in the relevant Government Notice, but should be a brief description of activities to be undertaken as per the project description

4. DECLARATIONS

4.1 The Applicant

I, Warren Morse of Mulilo Renewable Energy (Pty) Ltd, declare that I -

- am, or represent¹, the applicant in this application;
- have appointed / will appoint (delete that which is not applicable) an environmental assessment practitioner to act as the independent environmental assessment practitioner for this application / will obtain exemption from the requirement to obtain an environmental assessment practitioner²;
- will provide the environmental assessment practitioner and the competent authority with access to all information at my disposal that is relevant to the application;
- will be responsible for the costs incurred in complying with the Environmental Impact Assessment Regulations, 2010, including but not limited to –
 - costs incurred in connection with the appointment of the environmental assessment practitioner or any person contracted by the environmental assessment practitioner;
 - costs incurred in respect of the undertaking of any process required in terms of the Regulations;
 - costs in respect of any fee prescribed by the Minister or MEC in respect of the Regulations;
 - costs in respect of specialist reviews, if the competent authority decides to recover costs; and
 - the provision of security to ensure compliance with conditions attached to an environmental authorisation, should it be required by the competent authority;
- will ensure that the environmental assessment practitioner is competent to comply with the requirements of these Regulations and will take reasonable steps to verify whether the EAP complies with the Regulations;
- will inform all registered interested and affected parties of any suspension of the application as well as of any decisions taken by the competent authority in this regard;
- am responsible for complying with the conditions of any environmental authorisation issued by the competent authority;
- hereby indemnify the Government of the Republic, the competent authority and all its officers, agents and employees, from any liability arising out of the content of any report, any procedure or any action which the applicant or environmental assessment practitioner is responsible for in terms of these Regulations;
- will not hold the competent authority responsible for any costs that may be incurred by the applicant in proceeding with an activity prior to obtaining an environmental authorisation or prior to an appeal being decided in terms of these Regulations;
- will perform all other obligations as expected from an applicant in terms of the Regulations;



¹ If this is signed on behalf of the applicant, proof of such authority from the applicant must be attached.

² If exemption is obtained from appointing an EAP, the responsibilities of an EAP will automatically apply to the person conducting the environmental impact assessment in terms of the Regulations.

- all the particulars furnished by me in this form are true and correct; and
- I realise that a false declaration is an offence in terms of regulation 71 and is punishable in terms of section 24F of the Act.



Signature of the applicant³/ Signature on behalf of the applicant:

Mulilo Renewable Energy (Pty) Ltd

Name of company (if applicable):

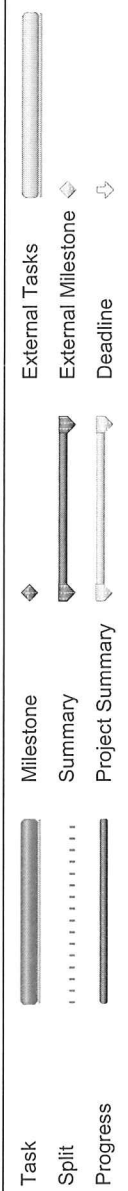
26.09.2011

Date:

³ If the applicant is a juristic person, a signature on behalf of the applicant is required as well as proof of such authority. An EAP may not sign on behalf of an applicant.

ANNEXURE A
Project Programme

ID	Task Name	Duration	Start	Finish	Calendar
1	EIA Process without BID	248 days	Mon 11/09/12	Wed 12/08/22	un 1 '11 Aug '11 Oct 0 '11 Nov '12 Jan 2 '12 Mar 1 '12 May '12 Jul 0 '12
2	Initiation	15 days	Mon 11/09/12	Fri 11/09/30	
3	Application Form	4 days	Mon 11/09/12	Thu 11/09/15	
4	Authority Review Period	14 days	Fri 11/09/16	Fri 11/09/30	
5	Consultation with DEA	1 day	Fri 11/09/23	Fri 11/09/23	
6	Initiation meeting and site visit	1 day	Fri 11/09/23	Fri 11/09/23	
7	Scoping Phase	103 days	Mon 11/10/03	Wed 12/02/22	
8	Draft Scoping Report (DSR)	21 days	Mon 11/10/03	Mon 11/10/31	
9	Plan of Study for EIA	10 days	Tue 11/10/18	Mon 11/10/31	
10	Scoping PPP	13 days	Thu 11/10/13	Mon 11/10/31	
11	Client review of DSR	2 days	Tue 11/11/01	Wed 11/11/02	
12	Incorporate client comments, print & courier	3 days	Thu 11/11/03	Mon 11/11/07	
13	Public Comment Period	40 days	Tue 11/11/08	Thu 12/01/05	
14	Consultation with DEA	1 day	Tue 11/11/22	Tue 11/11/22	
15	Final Scoping Report (FSR) & CRR	8 days	Fri 12/01/06	Tue 12/01/17	
16	Client review of FSR & CRR	1 day	Wed 12/01/18	Wed 12/01/18	
17	Incorporate client comments, print & courier	3 days	Thu 12/01/19	Mon 12/01/23	
18	Public Comment Period on Final Report	21 days	Tue 12/01/24	Mon 12/02/13	
19	Authority Review Period	30 days	Tue 12/01/24	Wed 12/02/22	
20	Specialist studies	55 days	Tue 11/11/22	Mon 12/02/06	
21	TBC	55 days	Tue 11/11/22	Mon 12/02/06	
22	EIA Phase	155 days	Thu 12/01/19	Wed 12/08/22	
23	Draft EIA Report	30 days	Thu 12/01/19	Wed 12/02/29	
24	Environmental Management Programme	15 days	Thu 12/02/09	Wed 12/02/29	
25	EIA PPP	20 days	Thu 12/02/02	Wed 12/02/29	
26	Client review of Draft EIA Report	2 days	Thu 12/03/01	Fri 12/03/02	
27	Incorporate client comments, print & courier	3 days	Mon 12/03/05	Wed 12/03/07	
28	Public Comment Period	40 days	Thu 12/03/08	Tue 12/04/17	
29	Consultation with DEA	1 day	Thu 12/03/22	Thu 12/03/22	
30	Final EIA Report	8 days	Wed 12/04/18	Fri 12/04/27	
31	Client review of Final EIA Report & CRR	1 day	Mon 12/04/30	Mon 12/04/30	
32	Incorporate client comments, print & courier	3 days	Tue 12/05/01	Thu 12/05/03	
33	Public Comment Period on Final Report	22 days	Sun 12/05/06	Sun 12/05/27	
34	Authority Review Period	104 days	Sun 12/05/06	Sun 12/08/19	
35	Notify I&APs of Environmental Decision	3 days	Mon 12/08/20	Wed 12/08/22	
36	Project Management	248 days	Mon 11/09/12	Wed 12/08/22	



Project: Copperton PV_two EIAs 120€
Date: Tue 11/09/13

ANNEXURE B
Letter from Applicant Regarding Signing Rights



Mulilo Renewable Energy (Pty)Ltd

PHYSICAL ADDRESS

Office 301
Execujet Business Centre
Tower Road
Cape Town International Airport
7525 South Africa

Telephone: +27 (0) 21 934 5268
Facsimile: +27 (0) 21 935 0505 / 0866356809
Email : chris@capedeep.com

POSTAL ADDRESS

P O Box 50
Cape Town International Airports
7525 South Africa

26 September 2011

RESOLUTION

Further to a meeting of the board of Mulilo Renewable Energy (Pty) Ltd, held at Cape Town on 16th September 2011, it has been agreed that Warren Morse has the authority to sign the Application Form for Environmental Authorisation.

Signed at Cape Town on 26th September 2011

A handwritten signature in black ink, appearing to read "J H Cullum", written over a horizontal line.

J H Cullum

Director

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

J Coetsee

Director

Directors: CD Aberdein, J Coetsee, D J Crombie, J H Cullum

Mulilo Renewable Energy (Pty) Ltd Registration number: 2008 / 010114 / 07

PO Box 50 Cape Town International Airport Cape Town 7525 South Africa

ANNEXURE C
Landowner Consent

23

1 no ita
pasted copy 15/03/10

AWS/ww/lease : 06/04/09

MEMORANDUM VAN HUUROOREENKOMS

aangegaan en gesluit tussen

Bernard Jemima Josina
Id 391019 000 4082



(Registrasienuommer:)

(die 'VERHUURDER')

en

MULILO RENEWABLE ENERGY (EDMS) BPK

(Registrasienuommer: 2008/010114/07)

(die 'HUURDER')



1. INTERPRETASIE

In hierdie Huurooreenkoms, tensy die konteks tot die teendeel aandui:

1.1 beteken die VERHUURDER:

Bernard Jemima Josina
391019 000 4082



1.2 beteken die HUURDER Mulilo Renewable Energy (Edms) Bpk Ltd, Registrasienommer: 2008/010114/07, verteenwoordig deur Johannes Coetsee, wie behoorlik gemagtig is om as sodanig op te tree, van p/a Keeromstraat 68, Kaapstad, 8001;

1.3 beteken die HUURPERSEEL die plaas beskryf as, Welverdien Prieska Rd 117/4 (remaining Extend) Klipgats Pan gehou onder titelakte T.388.73./1987, en met oppervlakte van 2622.5481 ha, maar uitgesluit alle geboue, plaasgereedskap en -implemente, voorraad, voertuie en waterbronne, onderhewig aan die bepalings van klousule 6 hieronder en ook uitgesluit alle gedeeltes wat nie deur die HUURDER gebruik word vir wind- en sonkragopwekking doeleindes nie;



1.4 beteken die AANVANGSDATUM die datum van ondertekening van hierdie Huurooreenkoms deur die party daartoe wat dit laaste onderteken;

1.5 beteken die OKKUPASIEDATUM die Aanvangsdatum;

1.6 beteken die AKTIVERINGSDATUM die eerste datum wat 'n turbine krag aan Eskom of 'n ander kommersiële gebruiker lewer, soos voorsiening voor gemaak word in klousule 5.4 hieronder.





environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

DETAILS OF EAP AND DECLARATION OF INTEREST

	(For official use only)
File Reference Number:	12/12/20/
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Date Received:	

Application for authorisation in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment Regulations, 2010

PROJECT TITLE

Proposed Photovoltaic (Solar) Energy Plant on Farm Klipgats Pan near Copperton, Northern Cape

Environmental Assessment Practitioner (EAP): ¹	Aurecon South Africa (Pty) Ltd		
Contact person:	Miss Louise Corbett / Miss Franci Gresse		
Postal address:	PO Box 494, Cape Town		
Postal code:	8000	Cell:	-
Telephone:	021 526 6027 / 021 526 6022	Fax:	086 667 3532
E-mail:	louise.corbett@aurecongroup.com /franci.gresse@aurecongroup.com		
Professional affiliation(s) (if any)	Miss Corbett is registered as a Professional Natural Scientist.		

Project Consultant:	N/A		
Contact person:			
Postal address:			
Postal code:		Cell:	
Telephone:		Fax:	
E-mail:			

4.2 The Environmental Assessment Practitioner

I, Louise Corbett of Aurecon South Africa (Pty) Ltd, declare that –

General declaration:

- I act as the independent environmental practitioner in this application
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting environmental impact assessments, including knowledge of the Act, regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, regulations and all other applicable legislation;
- I will take into account, to the extent possible, the matters listed in regulation 8 of the regulations when preparing the application and any report relating to the application;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- I will ensure that information containing all relevant facts in respect of the application is distributed or made available to interested and affected parties and the public and that participation by interested and affected parties is facilitated in such a manner that all interested and affected parties will be provided with a reasonable opportunity to participate and to provide comments on documents that are produced to support the application;
- I will ensure that the comments of all interested and affected parties are considered and recorded in reports that are submitted to the competent authority in respect of the application, provided that comments that are made by interested and affected parties in respect of a final report that will be submitted to the competent authority may be attached to the report without further amendment to the report;
- I will keep a register of all interested and affected parties that participated in a public participation process; and
- I will provide the competent authority with access to all information at my disposal regarding the application, whether such information is favourable to the applicant or not
- all the particulars furnished by me in this form are true and correct;
- will perform all other obligations as expected from an environmental assessment practitioner in terms of the Regulations; and
- I realise that a false declaration is an offence in terms of regulation 71 and is punishable in terms of section 24F of the Act.

Disclosure of Vested Interest (delete whichever is not applicable)

- I do not have and will not have any vested interest (either business, financial, personal or other) in the proposed activity proceeding other than remuneration for work performed in terms of the Environmental Impact Assessment Regulations, 2010;



Signature of the environmental assessment practitioner:

Aurecon South Africa (Pty) Ltd

Name of company:

27/09/2011

Date:



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

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

NEAS Reference: DEAT/EIA/0000611/2011

DEA Reference: 12/12/20/2501

Enquiries: Nyiko Ngoveni

Tel: 012 395 1694/1768 Fax: 012 320 7539 E-mail: nngoveni@environment.gov.za

Karen Shippey
Aurecon South Africa (Pty) Ltd
PO Box 494
CAPE TOWN
8000

Fax: 021 526 9500
Tel: 021 526 6027

PER FACSIMILE / MAIL

Dear Sir/Madam

No.:		File:		
Date: 19/10/2011				
To		Seen	Act	Ct
BU/ Off.	Initial			
	KS	SB		
	LC	W		

ACKNOWLEDGEMENT OF RECEIPT AND ACCEPTANCE OF NEW APPLICATION FOR ENVIRONMENTAL AUTHORISATION (SCOPING&EIA PROCESS) FOR THE PROPOSED PHOTOVOLTAIC (SOLAR) ENERGY PLANT ON THE FARM KLIPAGTS PAN NEAR CORPERTON, NORTHERN CAPE

The Department confirms having received the Application Form and EAP Declaration of Interest on 4 October 2011 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, 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.
- 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

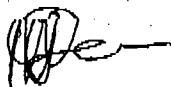
submitted for comment. Upon receipt of this confirmation, this Department will in accordance with Section 24O(2) & (3) of the National Environmental Management Act, 1998 (Act 107 of 1998) inform the relevant State Departments of the commencement date of the 40 day commenting period, or 60 days in the case of the Department of Water Affairs for waste management activities which also require a licence in terms of the National Water Act, 1908 (Act 36 of 1908).

- 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 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 Nyiko Ngoveni
Designation: Environmental Officer: Environmental Impact Evaluation
Date: 19/10/2011

CC:	Waren Morse	Mullo Renewable Energy (Pty) Ltd	Tel: 021 934 5278	Fax: 021 935 0505
	Ms Anga Yaphi	Northern Cape DEA&NC	Tel: 054 332 2885	Fax: 054 331 1155
	Municipal Manager	Siyathemba Local Municipality	Tel: 053 353 5300	Fax: 053 353 1386

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.aois.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