



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

APPLICATION FORM FOR ENVIRONMENTAL AUTHORISATION

File Reference Number:
NEAS Reference Number:
Date Received:

(For official use only)
14/12/16/3/3/2/504
DEAT/EIA/0001751/2013

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 (referred to as Badenhorst PV2) on Badenhorst Dam Farm near De Aar, 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.

Badenhorst Dam Farm 180																				
C	0	5	7	0	0	0	0	0	0	0	0	0	0	1	8	0	0	0	0	1

(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 (referred to as Badenhorst PV2) on Badenhorst Dam Farm near De Aar, 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		
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:	De Aar Stone Crushers Ltd, Farm 180 Portion 1 (Please see Annexure C)		
Contact person:			
Postal address:	P.O Box 340, De Aar		
Postal code:	7000	Cell:	082 259 6096
Telephone:	053 631 0046	Fax:	
E-mail:			

In instances where there is more than one landowner, please attach a list of landowners with their contact details to this application.

Local authority in whose jurisdiction the proposed activity will fall:	Emthanjeni Local Municipality		
Nearest town or districts:	De Aar, Northern Cape.		
Contact person:	Mev. C. Kloppers		
Postal address:	45 Voortrekker street		
Postal code:	7000	Cell:	
Telephone:	053 632 9100	Fax:	053 631 0105
E-mail:	deaar@emthanjeni.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 description ¹ :
544, 2 August 2010	9	In order to transport water from the Municipal supply system to the proposed PV facility at Badenhorst Dam, a pipeline may be constructed.
544, 2 August 2010	10	A 132kV overhead distribution line would be required to connect the PV facility to the onsite-substation. The 132kV distribution line would be approximately 2km long.
544, 2 August 2010	11 (x and xi)	Buildings and structures exceeding 50 m ² are being proposed for Badenhorst Dam farm and it is possible that these might be within 32 meters of small tributaries.
545, 2 August 2010	1	The proposed solar (PV) facilities would each have a generation capacity of 75MW; as such this activity is triggered.
545, 2 August 2010	15	<u>Based on our knowledge of the farm, the predominant farming activity is grazing. It is therefore assumed that this activity would be triggered as the DEA considers grazing land to be undeveloped.</u>
546, 2 August 2010	10	Dangerous goods might be stored and handled on site from time to time within 100m of a watercourse.
546, 2 August 2010	14	This activity may or may not be triggered depending on the extent of the indigenous vegetation. This will be confirmed by the botanical assessment.
546, 2 August 2010	16	It is assumed that buildings and infrastructure, exceeding 10m ² would be constructed on the project site. Depending on the location of the respective buildings, this activity may be triggered.

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 see Annexure A**).

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

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 National Environmental Management: Integrated Coastal Management Act ²	No
3.1.6 National Water Act	Yes
3.1.7 National Heritage Resources Act	Yes
3.1.8 Mineral Petroleum Development Resources Act	No
3.1.9 Other (please specify)	No
3.2 Have such applications been lodged already?	No

² Where an environmental authorization in terms of chapter 5 of the National Environmental Management Act is required for coastal activities, the competent authority must take into account all the relevant factors including those listed in section 63(1) of the National Environmental Management: Integrated Coastal Management Act.

4. DECLARATIONS

4.1 The Applicant

I, Warren Morse of Mulilo Renewable Energy (PTY) Ltd, declare that I –

- am, or represent³, 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 practitioner⁴;
- 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;

³ If this is signed on behalf of the applicant, proof of such authority from the applicant must be attached (Please see Annexure B).

⁴ 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 applicant⁵/ Signature on behalf of the applicant:

Mulilo Renewable Energy (PTY) LTD

Name of company (if applicable):

11.07.2013

Date:

⁵ 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.



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

DETAILS OF EAP AND DECLARATION OF INTEREST

File Reference Number:
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PROJECT TITLE

Proposed Photovoltaic (Solar) Energy Plant (referred to as Badenhorst PV2) on Badenhorst Dam Farm near De Aar, Northern Cape

Environmental
Assessment Practitioner
(EAP):¹

Aurecon South Africa (Pty) Ltd

Contact person:

Miss Karen Versfeld

Postal address:

PO Box 494, Cape Town

Postal code:

8000

Telephone:

021 526 5737

Cell:

084 454 9944

Fax:

021 526 9500

E-mail:

karen.versfeld@aurecongroup.com

Professional affiliation(s)
(if any)

Miss Versfeld is registered as a Candidate Natural Scientist with SACNASP.

Project Consultant:

N/A

Contact person:

Postal address:

Postal code:

Telephone:

E-mail:

Cell:

Fax:

4.2 The Environmental Assessment Practitioner

I, Karen Versfeld 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:

10/07/2013

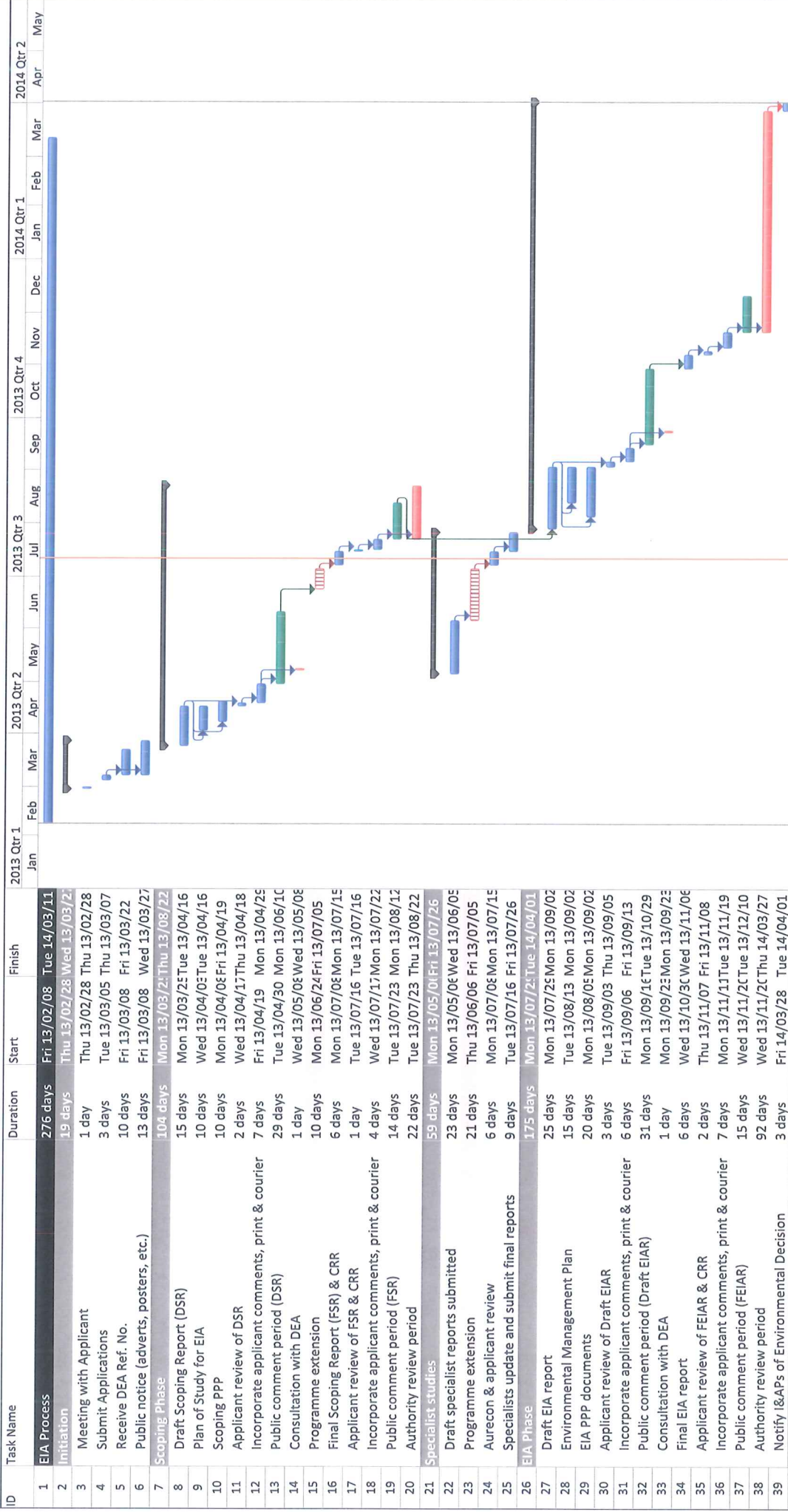
Date:

ANNEXURE A

Project Programme

FOUR ENVIRONMENTAL IMPACT ASSESSMENTS FOR THE EXPANSION OF APPROVED PHOTOVOLTAIC FACILITIES NEAR DE AAR AND PRIESKA, NORTHERN CAPE

VERSION 4: 12 JULY 2013



Task

Split

Milestone

Summary

Project Summary

External Tasks

External Milestone

Inactive Task

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

Deadline

Progress

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

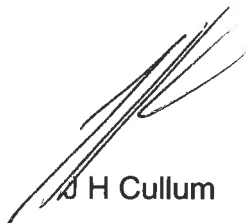
P O Box 50
Cape Town International Airports
7525 South Africa

4th March 2013

RESOLUTION

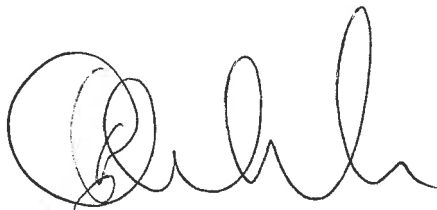
Further to a meeting of the board of Mulilo Renewable Energy (Pty) Ltd, held at Cape Town on 4th March 2013, it has been agreed that Warren Morse has the authority to sign the Application Forms for Environmental Authorisation.

Signed at Cape Town on 4th March 2013



J H Cullum

Director



C Aberdeen

Director

Directors: CD Aberdeen, 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

SOLAR & WIND

AWS/vw/lease : 08/04/09

MEMORANDUM VAN HUUROOREENKOMS

aangegaan en gesluit tussen

De Aar Stone Crushers Bk

Bk 1998/012 728/23
(Registrasienommer:)

W/L
Z
C.L.

(die 'VERHUURDER')

en

MULILO RENEWABLE ENERGY (EDMS) BPK

(Registrasienommer: 2008/010114/07)

(die 'HUURDER')

W/L
Z
C.L.

1. INTERPRETASIE

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

1.1 beteken die VERHUURDER:

De Aar Stone Crushers Bk

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,

Philipsdown Rd De Aar 180 Portion 1

gehou onder titelakte T.589.64.1.1983, en met oppervlakte van 2563,8824 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.

[Handwritten signatures and initials]



environmental affairs

Department:
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APPLICATION FORM FOR ENVIRONMENTAL AUTHORISATION

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Proposed Photovoltaic (Solar) Energy Plant (referred to as Badenhorst PV3) on Badenhorst Dam Farm near De Aar, Northern Cape

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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		
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:	De Aar Stone Crushers Ltd, Farm 180 Portion 1 (please see Annexure C).		
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- will obtain exemption from the requirement to obtain an environmental assessment practitioner⁴;
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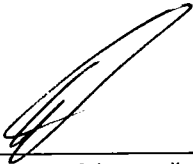
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will perform all other obligations as expected from an applicant in terms of the Regulations;

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of section 24F of the Act.



Signature of the applicant⁵/ Signature on behalf of the applicant:

Mulilo Renewable Energy (PTY) LTD

Name of company (if applicable):

11.07.2013

Date:

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environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

DETAILS OF EAP AND DECLARATION OF INTEREST

File Reference Number:
NEAS Reference Number:
Date Received:

(For official use only)
14/12/16/3/3/2/483
DEAT/EIA/0001750/2013

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 (referred to as Badenhorst PV3) on Badenhorst Dam Farm near De Aar, Northern Cape

Environmental
Assessment Practitioner
(EAP):¹

Contact person:

Postal address:

Postal code:

Telephone:

E-mail:

Professional affiliation(s)
(if any)

Aurecon South Africa (Pty) Ltd

Miss Karen Versfeld

PO Box 494, Cape Town

8000

021 526 5737

karen.versfeld@aurecongroup.com

Cell:

084 454 9944

Fax:

021 526 9500

Miss Versfeld is registered as a Candidate Natural Scientist with SACNASP.

Project Consultant:

Contact person:

Postal address:

Postal code:

Telephone:

E-mail:

N/A

Cell:

Fax:

4.2 The Environmental Assessment Practitioner

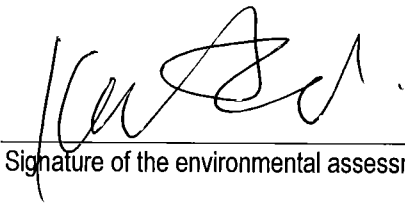
I, Karen Versfeld of Aurecon South Africa (Pty) Ltd, declare that –

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:

16/07/2013

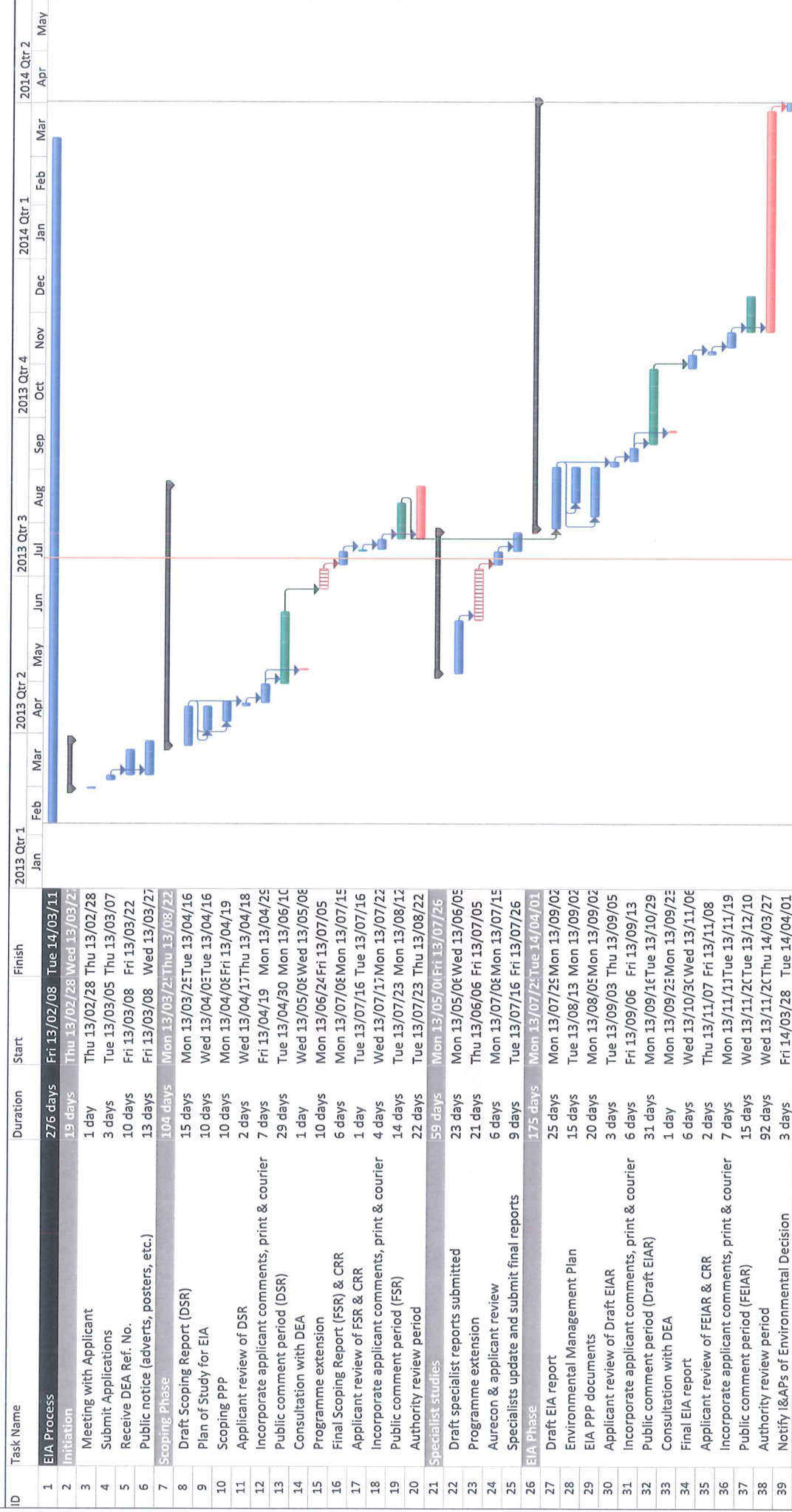
Date:

ANNEXURE A

Project Programme

FOUR ENVIRONMENTAL IMPACT ASSESSMENTS FOR THE EXPANSION OF APPROVED PHOTOVOLTAIC FACILITIES NEAR DE AAR AND PRIESKA, NORTHERN CAPE

VERSION 4: 12 JULY 2013



Task

Split

Milestone

Summary

Project Summary

External Tasks

External Milestone

Inactive Task

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

Deadline

Progress

Project: 4 EIAs Near De Aar & Prieska

Date: Fri 13/07/12

Page 1

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

4th March 2013

RESOLUTION

Further to a meeting of the board of Mulilo Renewable Energy (Pty) Ltd, held at Cape Town on 4th March 2013, it has been agreed that Warren Morse has the authority to sign the Application Forms for Environmental Authorisation.

Signed at Cape Town on 4th March 2013

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

J H Cullum

Director

A handwritten signature in black ink, appearing to be "C Aberdeen", written in a cursive style.

C Aberdeen

Director

Directors: CD Aberdeen, 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

SOLAR & WIND

AWS/vw/lease : 08/04/09

MEMORANDUM VAN HUUROOREENKOMS

aangegaan en gesluit tussen

De Aar Stone Crushers Bk

Bk 1998/012 728/23
(Registrasienommer:)

W/L
Z
C.L.

(die 'VERHUURDER')

en

MULILO RENEWABLE ENERGY (EDMS) BPK

(Registrasienommer: 2008/010114/07)

(die 'HUURDER')

W/L
Z
C.L.

1. INTERPRETASIE

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

1.1 beteken die VERHUURDER:

De Aar Stone Crushers Bk

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,

Philipsdown Rd De Aar 180 Portion 1

gehou onder titelakte T.589.64.1.1983, en met oppervlakte van 2563,8824 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.

[Handwritten signatures and initials]



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

APPLICATION FORM FOR ENVIRONMENTAL AUTHORISATION

File Reference Number:
NEAS Reference Number:
Date Received:

(For official use only)
14/12/16/3/3/2/506
DEAT/EIA/0001752/2013

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 (referred to as Badenhorst PV4) on Badenhorst Dam Farm near De Aar, 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.

Badenhorst Dam Farm 180																				
C	0	5	7	0	0	0	0	0	0	0	0	0	0	1	8	0	0	0	0	1

(if there are more that 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 (referred to as Badenhorst PV4) on Badenhorst Dam Farm near De Aar, 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		
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:	De Aar Stone Crushers Ltd, Farm 180 Portion 1 (please see Annexure C).		
Contact person:			
Postal address:	P.O Box 340, De Aar		
Postal code:	7000	Cell:	082 259 6096
Telephone:	053 631 0046	Fax:	
E-mail:			

In instances where there is more than one landowner, please attach a list of landowners with their contact details to this application.

Local authority in whose jurisdiction the proposed activity will fall:	Emthanjeni Local Municipality		
Nearest town or districts:	De Aar, Northern Cape.		
Contact person:	Mev. C. Kloppers		
Postal address:	45 Voortrekker street		
Postal code:	7000	Cell:	
Telephone:	053 632 9100	Fax:	053 631 0105
E-mail:	deaar@emthanjeni.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 description ¹ :
544, 2 August 2010	9	In order to transport water from the Municipal supply system to the proposed PV facility at Badenhorst Dam, a pipeline may be constructed.
544, 2 August 2010	10	A 132kV overhead distribution line would be required to connect the PV facility to the onsite-substation. The 132kV distribution line would be approximately 2km long.
544, 2 August 2010	11 (x and xi)	Buildings and structures exceeding 50 m ² are being proposed for Badenhorst Dam farm and it is possible that these might be within 32 meters of small tributaries.
545, 2 August 2010	1	The proposed solar (PV) facilities would each have a generation capacity of 75MW; as such this activity is triggered.
545, 2 August 2010	15	<u>Based on our knowledge of the farm, the predominant farming activity is grazing. It is therefore assumed that this activity would be triggered as the DEA considers grazing land to be undeveloped.</u>
546, 2 August 2010	10	Dangerous goods might be stored and handled on site from time to time within 100m of a watercourse.
546, 2 August 2010	14	This activity may or may not be triggered depending on the extent of the indigenous vegetation. This will be confirmed by the botanical assessment.
546, 2 August 2010	16	It is assumed that buildings and infrastructure, exceeding 10m ² would be constructed on the project site. Depending on the location of the respective buildings, this activity may be triggered.

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 see Annexure A**).

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

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 National Environmental Management: Integrated Coastal Management Act ²	No
3.1.6 National Water Act	Yes
3.1.7 National Heritage Resources Act	Yes
3.1.8 Mineral Petroleum Development Resources Act	No
3.1.9 Other (please specify)	No
3.2 Have such applications been lodged already?	No

² Where an environmental authorization in terms of chapter 5 of the National Environmental Management Act is required for coastal activities, the competent authority must take into account all the relevant factors including those listed in section 63(1) of the National Environmental Management: Integrated Coastal Management Act.

4. DECLARATIONS

4.1 The Applicant

I, Warren Morse of Mulilo Renewable Energy (PTY) Ltd, declare that I –

- am, or represent³, 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 practitioner⁴;
- 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;

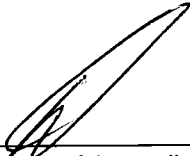
will not hold the competent authority responsible for any costs that may be incurred by the applicant in proceeding with an activity prior to obtaining an environmental authorisation or prior to an appeal being decided in terms of these Regulations;

will perform all other obligations as expected from an applicant in terms of the Regulations;

³ If this is signed on behalf of the applicant, proof of such authority from the applicant must be attached (please see Annexure B).

⁴ 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 applicant⁵/ Signature on behalf of the applicant:

Mulilo Renewable Energy (PTY) LTD

Name of company (if applicable):

11.07.2013

Date:

⁵ 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.



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

DETAILS OF EAP AND DECLARATION OF INTEREST

File Reference Number:

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14/12/16/3/3/2/506

DEAT/EIA/0001752/2013

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PROJECT TITLE

Proposed Photovoltaic (Solar) Energy Plant (referred to as Badenhorst PV4) on Badenhorst Dam Farm near De Aar, Northern Cape

Environmental
Assessment Practitioner
(EAP):¹

Contact person:

Postal address:

Postal code:

Telephone:

E-mail:

Professional affiliation(s)
(if any)

Aurecon South Africa (Pty) Ltd

Miss Karen Versfeld

PO Box 494, Cape Town

8000

021 526 5737

karen.versfeld@aurecongroup.com

Cell:

084 454 9944

Fax:

021 526 9500

Miss Versfeld is registered as a Candidate Natural Scientist with SACNASP.

Project Consultant:

Contact person:

Postal address:

Postal code:

Telephone:

E-mail:

N/A

Cell:

Fax:

4.2 The Environmental Assessment Practitioner

I, Karen Versfeld 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;
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- 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)

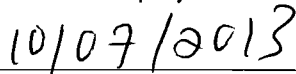
- I do not have and will not have any vested interest (either business, financial, personal or other) in the proposed activity proceeding other than remuneration for work performed in terms of the Environmental Impact Assessment Regulations, 2010;



Signature of the environmental assessment practitioner:

Aurecon South Africa (Pty) Ltd

Name of company:



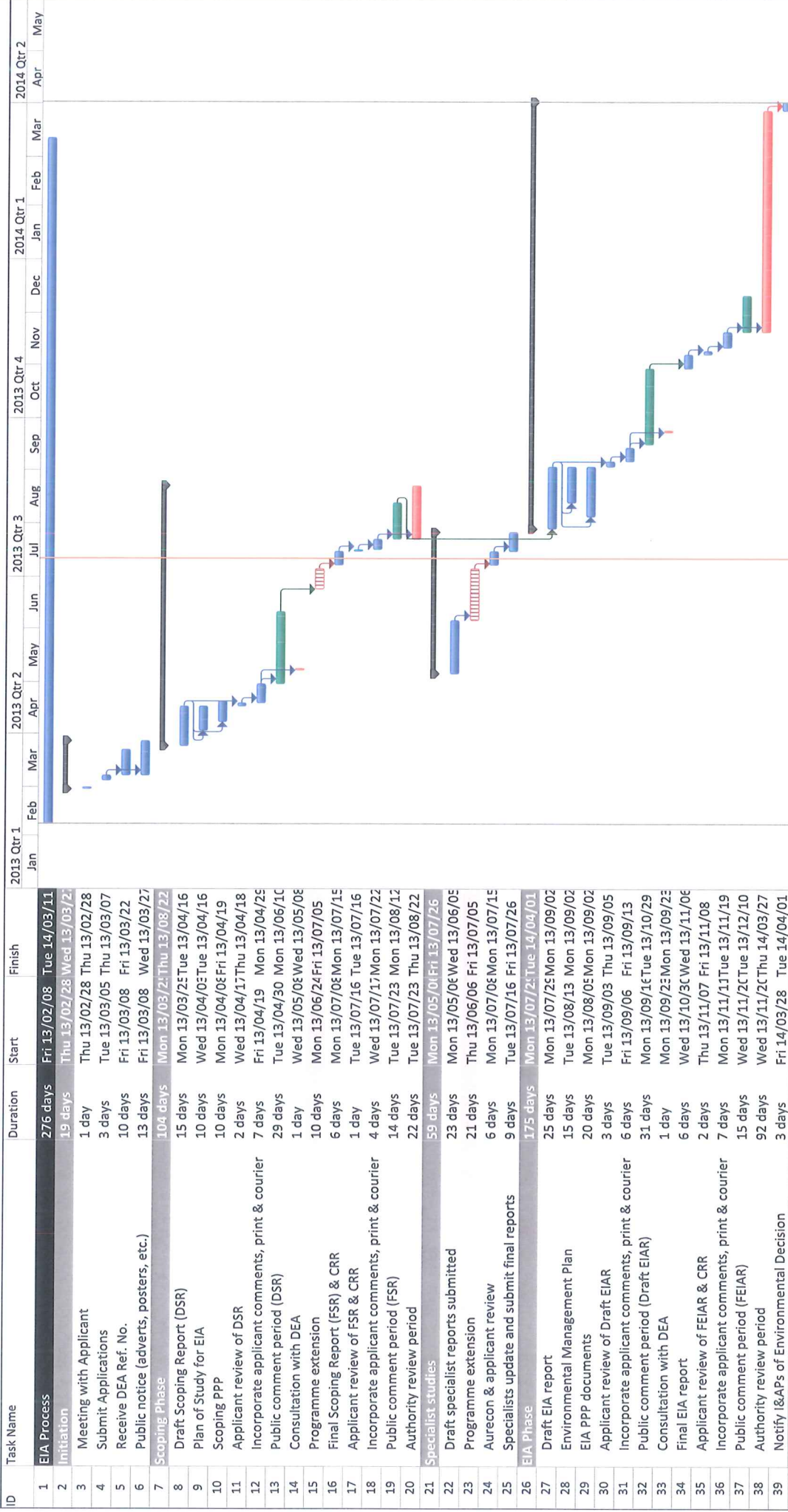
Date:

ANNEXURE A

Project Programme

FOUR ENVIRONMENTAL IMPACT ASSESSMENTS FOR THE EXPANSION OF APPROVED PHOTOVOLTAIC FACILITIES NEAR DE AAR AND PRIESKA, NORTHERN CAPE

VERSION 4: 12 JULY 2013



Task

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Start-only

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Project: 4 EIAs Near De Aar & Prieska

Date: Fri 13/07/12

Page 1

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

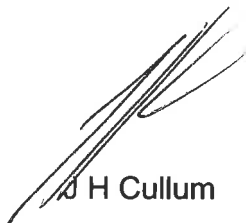
P O Box 50
Cape Town International Airports
7525 South Africa

4th March 2013

RESOLUTION

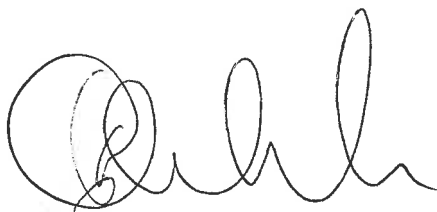
Further to a meeting of the board of Mulilo Renewable Energy (Pty) Ltd, held at Cape Town on 4th March 2013, it has been agreed that Warren Morse has the authority to sign the Application Forms for Environmental Authorisation.

Signed at Cape Town on 4th March 2013



J H Cullum

Director



C Aberdeen

Director

Directors: CD Aberdeen, 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

SOLAR & WIND

AWS/vw/lease : 08/04/09

MEMORANDUM VAN HUUROOREENKOMS

aangegaan en gesluit tussen

De Aar Stone Crushers Bk

Bk 1998/012 728/23
(Registrasienommer:)

W/L
Z
C.L.

(die 'VERHUURDER')

en

MULILO RENEWABLE ENERGY (EDMS) BPK

(Registrasienommer: 2008/010114/07)

(die 'HUURDER')

W/L
Z
C.L.

1. INTERPRETASIE

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

1.1 beteken die VERHUURDER:

De Aar Stone Crushers Bk

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,

Philipsdown Rd De Aar 180 Portion 1

gehou onder titelakte T.589.64.1.1983, en met oppervlakte van 2563,8824 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;

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[Handwritten signatures and initials]



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

APPLICATION FORM FOR ENVIRONMENTAL AUTHORISATION

File Reference Number:
NEAS Reference Number:
Date Received:

(For official use only)

14/12/16/3/3/2/485

DEAT/EIA/0001753/2013

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 (referred to as Badenhorst PV5) on Badenhorst Dam Farm near De Aar, Northern Cape

Kindly note that:

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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.

Badenhorst Dam Farm 180																				
C	0	5	7	0	0	0	0	0	0	0	0	0	0	1	8	0	0	0	0	1

(if there are more that 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 (referred to as Badenhorst PV5) on Badenhorst Dam Farm near De Aar, 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		
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:	De Aar Stone Crushers Ltd, Farm 180 Portion 1 (please see Annexure C).		
Contact person:			
Postal address:	P.O Box 340, De Aar		
Postal code:	7000	Cell:	082 259 6096
Telephone:	053 631 0046	Fax:	
E-mail:			

In instances where there is more than one landowner, please attach a list of landowners with their contact details to this application.

Local authority in whose jurisdiction the proposed activity will fall:	Emthanjeni Local Municipality		
Nearest town or districts:	De Aar, Northern Cape.		
Contact person:	Mev. C. Kloppers		
Postal address:	45 Voortrekker street		
Postal code:	7000	Cell:	
Telephone:	053 632 9100	Fax:	053 631 0105
E-mail:	deaar@emthanjeni.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 description ¹ :
544, 2 August 2010	9	In order to transport water from the Municipal supply system to the proposed PV facility at Badenhorst Dam, a pipeline may be constructed.
544, 2 August 2010	10	A 132kV overhead distribution line would be required to connect the PV facility to the onsite-substation. The 132kV distribution line would be approximately 2km long.
544, 2 August 2010	11 (x and xi)	Buildings and structures exceeding 50 m ² are being proposed for Badenhorst Dam farm and it is possible that these might be within 32 meters of small tributaries.
545, 2 August 2010	1	The proposed solar (PV) facilities would each have a generation capacity of 75MW; as such this activity is triggered.
545, 2 August 2010	15	<u>Based on our knowledge of the farm, the predominant farming activity is grazing. It is therefore assumed that this activity would be triggered as the DEA considers grazing land to be undeveloped.</u>
546, 2 August 2010	10	Dangerous goods might be stored and handled on site from time to time within 100m of a watercourse.
546, 2 August 2010	14	This activity may or may not be triggered depending on the extent of the indigenous vegetation. This will be confirmed by the botanical assessment.
546, 2 August 2010	16	It is assumed that buildings and infrastructure, exceeding 10m ² would be constructed on the project site. Depending on the location of the respective buildings, this activity may be triggered.

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 see Annexure A).

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

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 National Environmental Management: Integrated Coastal Management Act ²	No
3.1.6 National Water Act	Yes
3.1.7 National Heritage Resources Act	Yes
3.1.8 Mineral Petroleum Development Resources Act	No
3.1.9 Other (please specify)	No
3.2 Have such applications been lodged already?	No

² Where an environmental authorization in terms of chapter 5 of the National Environmental Management Act is required for coastal activities, the competent authority must take into account all the relevant factors including those listed in section 63(1) of the National Environmental Management: Integrated Coastal Management Act.

4. DECLARATIONS

4.1 The Applicant

I, Warren Morse of Mulilo Renewable Energy (PTY) Ltd, declare that I –

- am, or represent³, 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 practitioner⁴;
- 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;

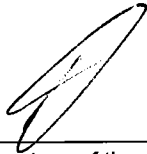
will not hold the competent authority responsible for any costs that may be incurred by the applicant in proceeding with an activity prior to obtaining an environmental authorisation or prior to an appeal being decided in terms of these Regulations;

will perform all other obligations as expected from an applicant in terms of the Regulations;

3 If this is signed on behalf of the applicant, proof of such authority from the applicant must be attached (**please see Annexure B**).

4 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 applicant⁵/ Signature on behalf of the applicant:

Mulilo Renewable Energy (PTY) LTD
Name of company (if applicable):

11.07.2013
Date:

⁵ 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.



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

DETAILS OF EAP AND DECLARATION OF INTEREST

File Reference Number:
NEAS Reference Number:
Date Received:

(For official use only)

14/12/16/3/3/2/485

DEAT/EIA/0001753/2013

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 (referred to as Badenhorst PV5) on Badenhorst Dam Farm near De Aar, Northern Cape

Environmental
Assessment Practitioner
(EAP):¹

Contact person:

Postal address:

Postal code:

Telephone:

E-mail:

Professional affiliation(s)
(if any)

Aurecon South Africa (Pty) Ltd

Miss Karen Versfeld

PO Box 494, Cape Town

8000

021 526 5737

karen.versfeld@aurecongroup.com

Cell:

084 454 9944

Fax:

021 526 9500

Miss Versfeld is registered as a Candidate Natural Scientist with SACNASP.

Project Consultant:

Contact person:

Postal address:

Postal code:

Telephone:

E-mail:

N/A

Cell:

Fax:

4.2 The Environmental Assessment Practitioner

I, Karen Versfeld 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:

10/07/2013

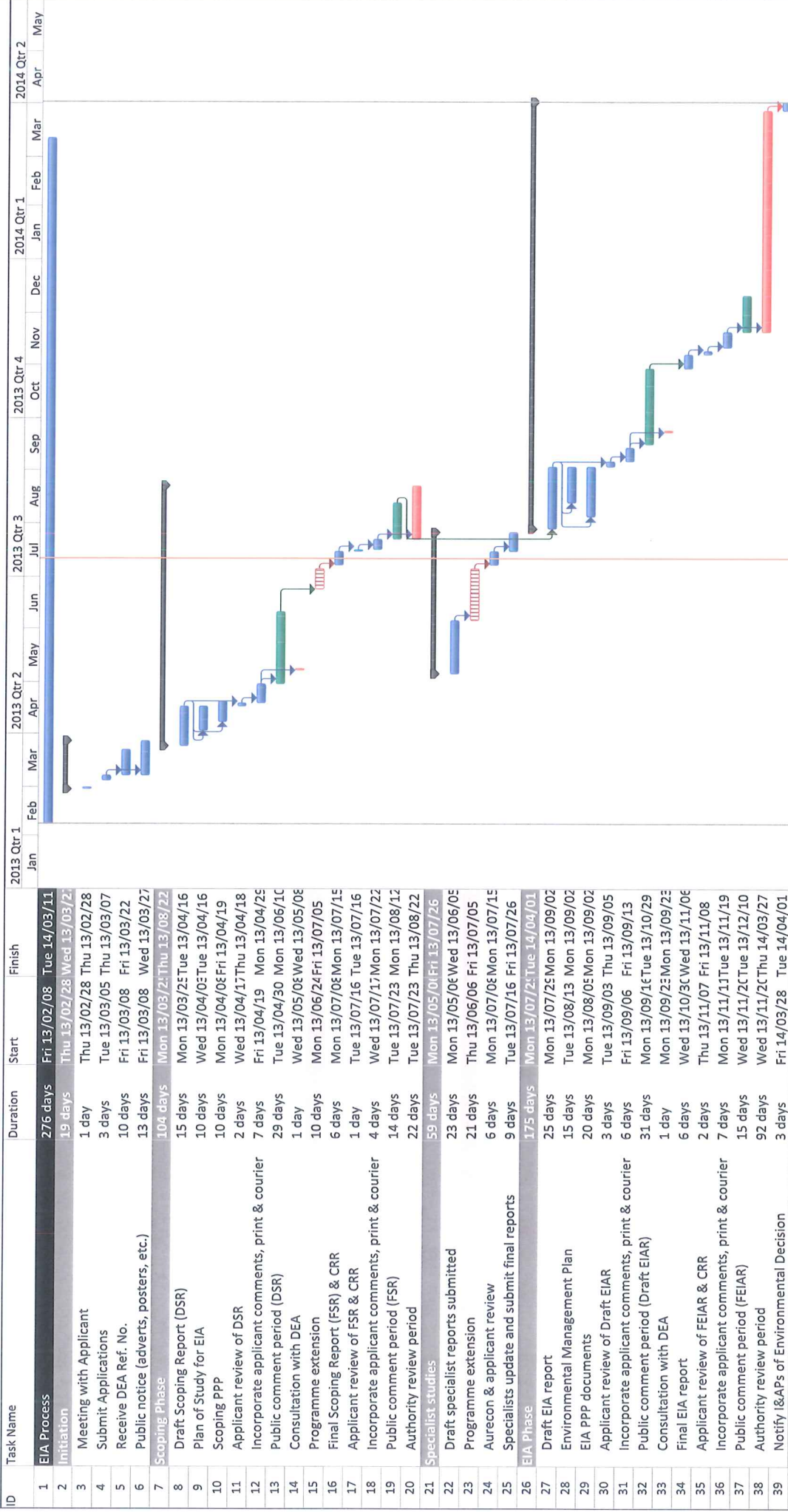
Date:

ANNEXURE A

Project Programme

FOUR ENVIRONMENTAL IMPACT ASSESSMENTS FOR THE EXPANSION OF APPROVED PHOTOVOLTAIC FACILITIES NEAR DE AAR AND PRIESKA, NORTHERN CAPE

VERSION 4: 12 JULY 2013



Task

Split

Milestone

Summary

Project Summary

External Tasks

External Milestone

Inactive Task

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

Deadline

Progress

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

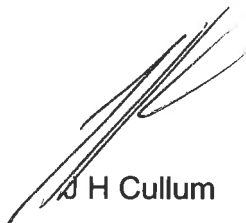
P O Box 50
Cape Town International Airports
7525 South Africa

4th March 2013

RESOLUTION

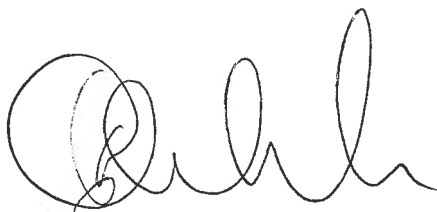
Further to a meeting of the board of Mulilo Renewable Energy (Pty) Ltd, held at Cape Town on 4th March 2013, it has been agreed that Warren Morse has the authority to sign the Application Forms for Environmental Authorisation.

Signed at Cape Town on 4th March 2013



J H Cullum

Director



C Aberdeen

Director

Directors: CD Aberdeen, 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

SOLAR & WIND

AWS/vw/lease : 08/04/09

MEMORANDUM VAN HUUROOREENKOMS

aangegaan en gesluit tussen

De Aar Stone Crushers Bk

Bk 1998/012 728/23
(Registrasienommer:)

W/L
Z
C.L.

(die 'VERHUURDER')

en

MULILO RENEWABLE ENERGY (EDMS) BPK

(Registrasienommer: 2008/010114/07)

(die 'HUURDER')

W/L
Z
C.L.

1. INTERPRETASIE

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

1.1 beteken die VERHUURDER:

De Aar Stone Crushers Bk

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,

Philipsdown Rd De Aar 180 Portion 1

gehou onder titelakte T.589.64.1.1983, en met oppervlakte van 2563,8824 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.

[Handwritten signatures and initials]



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/0001751/2013

DEA Reference: 14/12/16/3/3/2/504

Enquiries: Kim Balutto

Tel: 012 310 3859 Fax: 012 320 7539 E-mail: KBalutto@environment.gov.za

Ms Karen De Bruyn
Aurecon SA (Pty) Ltd
PO Box 494
CAPE TOWN
8000

Fax: 021 526 9500
Tel: 021 526 9400

PER FACSIMILE / MAIL

Dear Ms De Bruyn

ACKNOWLEDGEMENT OF RECEIPT AND ACCEPTANCE OF NEW APPLICATION FOR ENVIRONMENTAL AUTHORISATION (SCOPING & EIA PROCESS) FOR THE PROPOSED PHOTVOLTAIC (SOLAR) ENERGY PLANT (REFERRED TO AS BADENHORTS PV2) ON BADENHORTS DAM FARM NEAR DE AAR, NORTHERN CAPE PROVINCE

The Department confirms having received the Application Form; Details of EAP and Declaration of Interest form; Landowner Consent; Locality map and Project Schedule on 11 March 2013 for environmental authorisation for the abovementioned project. The Application is accepted.

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/wind 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 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.

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/wind 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 solar panels/ wind turbines 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:

- All recommendations and mitigation measures to be recorded in the Final EIR.
- A plant rescue and protection plan which allows for the maximum transplant of conservation important species from areas to be transformed. This plan must be compiled by a vegetation specialist familiar with the site in consultation with the ECO and be implemented prior to commencement of the construction phase.
- An open space management plan to be implemented during the construction and operation of the facility.
- 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.
- 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.
- 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.
- 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.

- 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.
- 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.
- An environmental sensitivity map indicating environmental sensitive areas and features identified during the EIA process.
- 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 EAP must, in order to give effect to regulation 56 (2), before submitting the final basic assessment report/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.

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 Mark Gordon
Chief Director: Integrated Environmental Authorisations
Department of Environmental Affairs
 Letter signed by: Mr Herman Alberts
 Designation: Environmental Officer: Integrated Environmental Authorisations
 Date: 26/03/2013

CC:	Mr Warren Morse	Mulilo Renewable Energy (Pty) Ltd	Fax: 021 935 0505
	Ms Anga Yaphi	NCDEANC	Fax: 054 331 1155
	Ms C Kloppers	Emthanjeni Local Municipality	Fax: 053 631 0105

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
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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

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 - Limiting factors
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environmental affairs

Department:
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REPUBLIC OF SOUTH AFRICA

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NEAS Reference: DEA/EIA/0001750/2013

DEA Reference: 14/12/16/3/3/2/483

Enquiries: Kim Balutto

Tel: 012 310 3859 Fax: 012 320 7539 E-mail: KBalutto@environment.gov.za

Ms Karen De Bruyn
Aurecon SA (Pty) Ltd
PO Box 494
CAPE TOWN
8000

Fax: 021 526 9500
Tel: 021 526 9400

PER FACSIMILE / MAIL

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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 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.
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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 Mark Gordon

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Department of Environmental Affairs

Letter signed by: Mr Herman Alberts

Designation: Environmental Officer: Integrated Environmental Authorisations

Date: 26/03/2013

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 - 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
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- 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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 - 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

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

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NEAS Reference: DEAEIA/0001753/2013

DEA Reference: 14/12/16/3/3/2/485

Enquiries: Kim Balutto

Tel: 012 310 3859 Fax: 012 320 7539 E-mail: KBalutto@environment.gov.za

Ms Karen De Bruyn
Aurecon SA (Pty) Ltd
PO Box 494
CAPE TOWN
8000

Fax: 021 526 9500

Tel: 021 526 9400

PER FACSIMILE / MAIL

Dear Ms De Bruyn

ACKNOWLEDGEMENT OF RECEIPT AND ACCEPTANCE OF NEW APPLICATION FOR ENVIRONMENTAL AUTHORISATION (SCOPING & EIA PROCESS) FOR THE PROPOSED PHOTVOLTAIC (SOLAR) ENERGY PLANT (REFERRED TO AS BADENHORTS PV5) ON BADENHORTS DAM FARM NEAR DE AAR, NORTHERN CAPE PROVINCE

The Department confirms having received the Application Form; Details of EAP and Declaration of Interest form; Landowner Consent; Locality map and Project Schedule on 11 March 2013 for environmental authorisation for the abovementioned project. The Application is accepted.

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/wind 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 240 (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 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.

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/wind 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 solar panels/ wind turbines 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:

- All recommendations and mitigation measures to be recorded in the Final EIR.
- A plant rescue and protection plan which allows for the maximum transplant of conservation important species from areas to be transformed. This plan must be compiled by a vegetation specialist familiar with the site in consultation with the ECO and be implemented prior to commencement of the construction phase.
- An open space management plan to be implemented during the construction and operation of the facility.
- 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.
- 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.
- 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.
- 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.

- 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.
- 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.
- An environmental sensitivity map indicating environmental sensitive areas and features identified during the EIA process.
- 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 EAP must, in order to give effect to regulation 56 (2), before submitting the final basic assessment report/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.

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 Mark Gordon

Chief Director: Integrated Environmental Authorisations

Department of Environmental Affairs

Letter signed by: Mr Herman Alberts

Designation: Environmental Officer: Integrated Environmental Authorisations

Date: 26/03/2013

CC:	Mr Warren Morse	Mulilo Renewable Energy (Pty) Ltd	Fax: 021 935 0505
	Ms Anga Yaphi	NCDEANC	Fax: 054 331 1155
	Ms C Kloppers	Emthanjeni Local Municipality	Fax: 053 631 0105

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
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- 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)
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- Cable routes and trench dimensions (where they are not along internal roads)
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- 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
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