



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 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 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:	Thato Molese or Chamuwari J Ketano		
Postal address:	Private Bag X6102, Kimberley		
Postal code:	8300	Cell:	076 411 6609
Telephone:	0638077468	Fax:	053 831 3530
E-mail:	tmolese@ncpg.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	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.
544, 2 August 2010	18 (i)	<u>Attenuation ponds would need to be constructed within watercourses in order to manage the onsite storm water.</u>
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	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.
546, 2 August 2010	4	An access road wider than 4m, but less than 8m, will be constructed. As De Aar is located within the Platberg-Karoo Conservancy, this activity will be triggered.
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;

all the particulars furnished by me in this form are true and correct; and

realise that a false declaration is an offence in terms of regulation 71 and is punishable in terms of section 24F of the Act.

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.



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

Mulilo Renewable Energy (Pty) Ltd

Name of company (if applicable):

9 September 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

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:

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

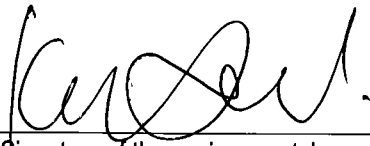
I, Karen Versfeld of Aurecon South Africa (Pty) Ltd, declare that –

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:

06/09/2013

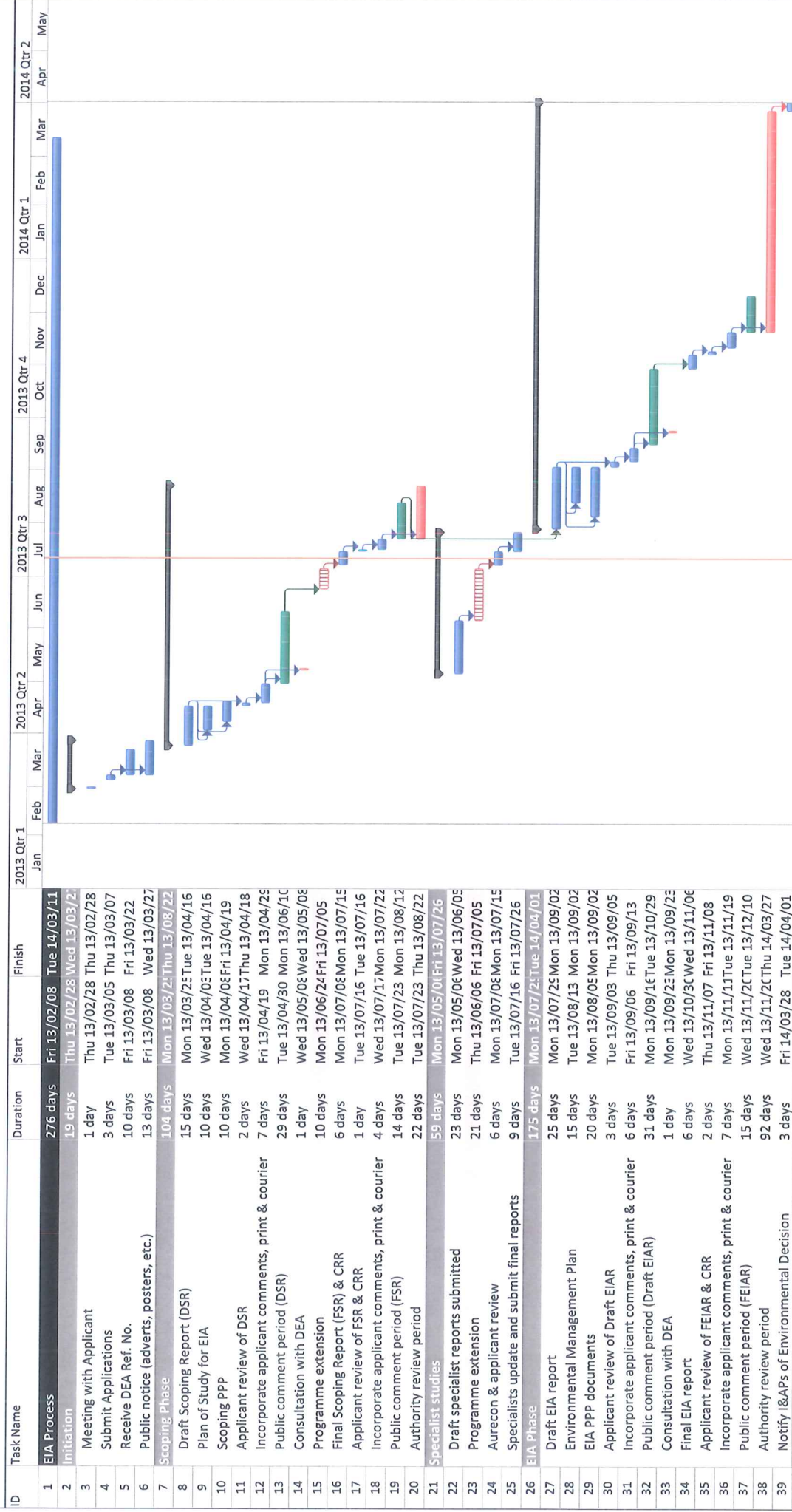
Date:

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

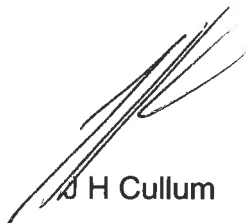
P O Box 50
Cape Town International Airports
7525 South Africa

4th March 2013

RESOLUTION

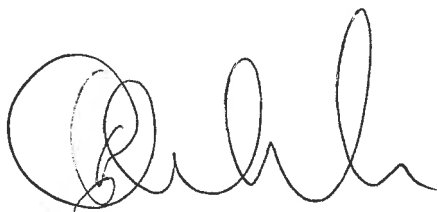
Further to a meeting of the board of Mulilo Renewable Energy (Pty) Ltd, held at Cape Town on 4th March 2013, it has been agreed that Warren Morse has the authority to sign the Application Forms for Environmental Authorisation.

Signed at Cape Town on 4th March 2013



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
J
C.L.

(die 'VERHUURDER')

en

MULILO RENEWABLE ENERGY (EDMS) BPK

(Registrasienommer: 2008/010114/07)

(die 'HUURDER')

W/L
J
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

Kindly note that:

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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:	Thato Molese or Chamuwari J Ketano		
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Postal code:	8300	Cell:	076 411 6609
Telephone:	0638077468	Fax:	053 831 3530
E-mail:	tmolese@ncpg.gov.za		

Landowner:	De Aar Stone Crushers Ltd, Farm 180 Portion 1 (please see Annexure C).		
Contact person:			
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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.

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

Mulilo Renewable Energy (Pty) Ltd

Name of company (if applicable):

09.09.2013

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)
14/12/16/3/3/2/483
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	Cell:	
021 526 5737	Fax:	021 526 9500
karen.versfeld@aurecongroup.com		
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

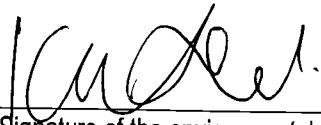
I, Karen Versfeld of Aurecon South Africa (Pty) Ltd, declare that –

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:

06/09/2013

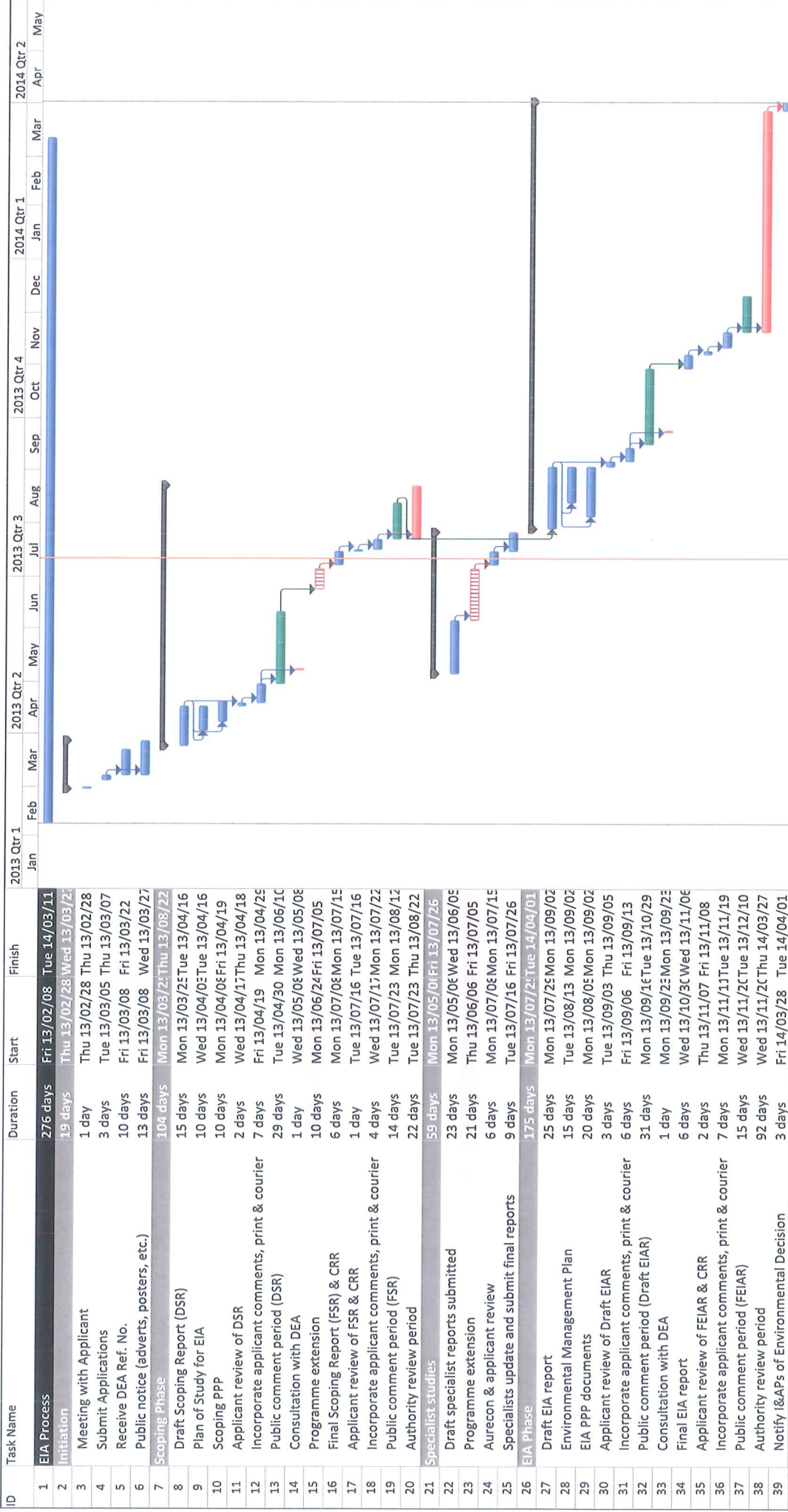
Date:

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

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

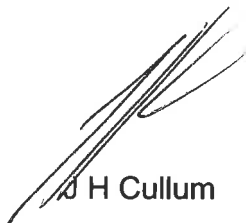
P O Box 50
Cape Town International Airports
7525 South Africa

4th March 2013

RESOLUTION

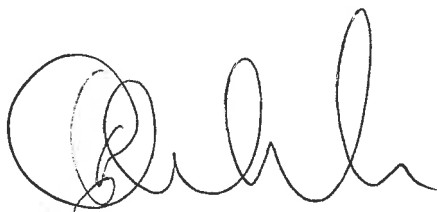
Further to a meeting of the board of Mulilo Renewable Energy (Pty) Ltd, held at Cape Town on 4th March 2013, it has been agreed that Warren Morse has the authority to sign the Application Forms for Environmental Authorisation.

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
J
C.L.

(die 'VERHUURDER')

en

MULILO RENEWABLE ENERGY (EDMS) BPK

(Registrasienommer: 2008/010114/07)

(die 'HUURDER')

W/L
J
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:	(For Official Use Only)
NEAS Reference Number:	14/12/16/3/3/2/506
Date Received:	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:	Thato Molese or Chamuwari J Ketano		
Postal address:	Private Bag X6102, Kimberley		
Postal code:	8300	Cell:	076 411 6609
Telephone:	0638077468	Fax:	053 831 3530
E-mail:	tmolese@ncpg.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	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.
544, 2 August 2010	18 (i)	Attenuation ponds would need to be constructed within watercourses in order to manage the onsite storm water.
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	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.
546, 2 August 2010	4	An access road wider than 4m, but less than 8m, will be constructed. As De Aar is located within the Platberg-Karoo Conservancy, this activity will be triggered.
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;

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.

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.



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

Mulilo Renewable Energy (Pty) Ltd

Name of company (if applicable):

09.09.2013
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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Date Received:

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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

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:

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 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
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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:

06/09/2013

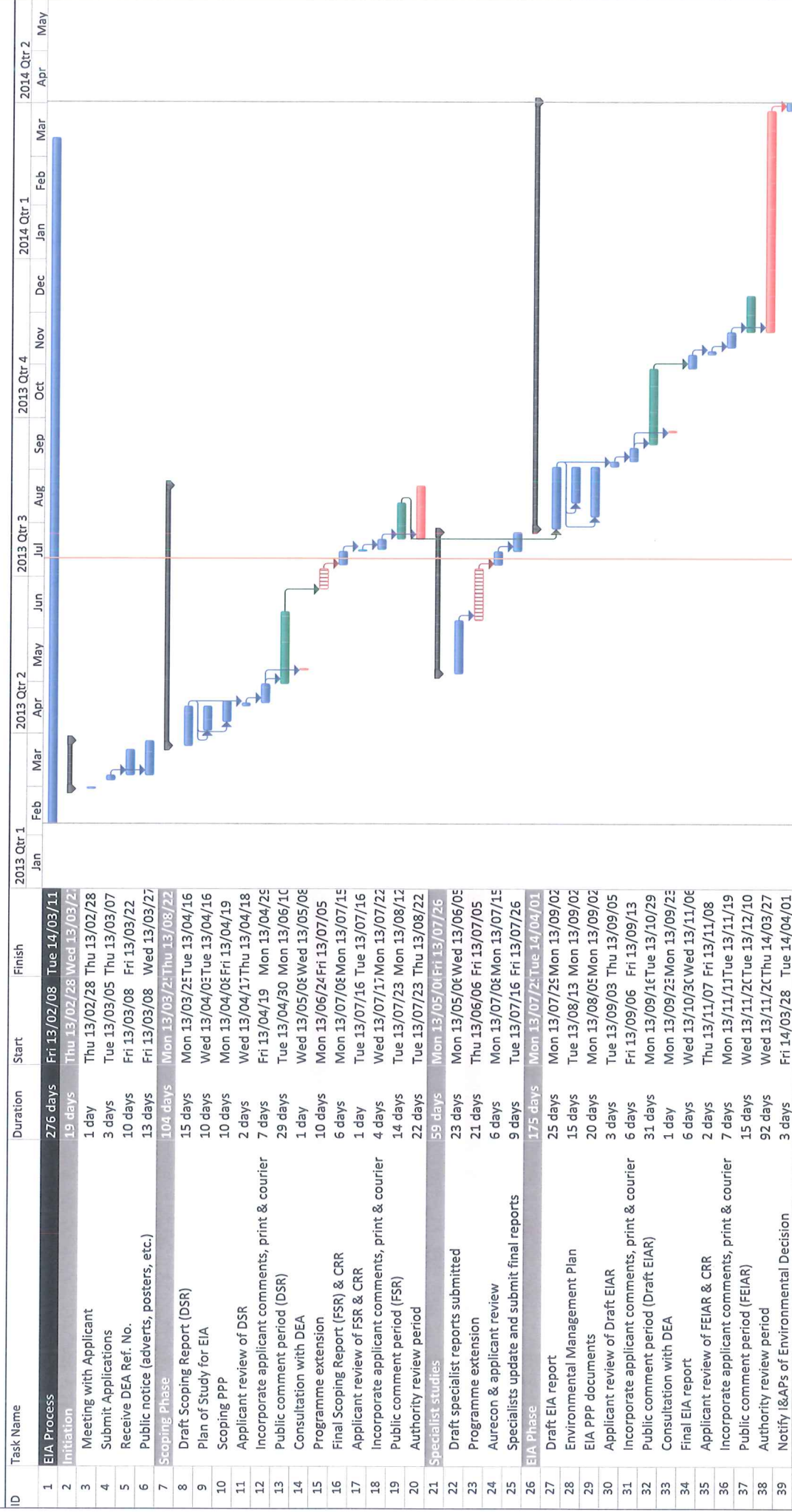
Date:

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

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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

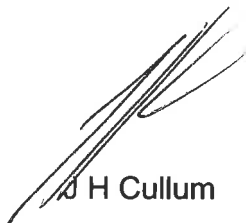
P O Box 50
Cape Town International Airports
7525 South Africa

4th March 2013

RESOLUTION

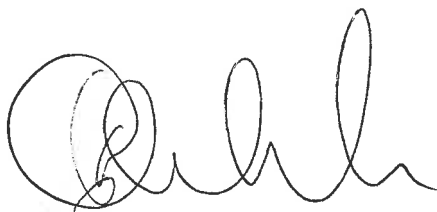
Further to a meeting of the board of Mulilo Renewable Energy (Pty) Ltd, held at Cape Town on 4th March 2013, it has been agreed that Warren Morse has the authority to sign the Application Forms for Environmental Authorisation.

Signed at Cape Town on 4th March 2013



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

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:

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 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:	Thato Molese or Chamuwari J Ketano		
Postal address:	Private Bag X6102, Kimberley		
Postal code:	8300	Cell:	076 411 6609
Telephone:	0638077468	Fax:	053 831 3530
E-mail:	tmolese@ncpg.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	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.
544, 2 August 2010	18 (i)	<u>Attenuation ponds would need to be constructed within watercourses in order to manage the onsite storm water.</u>
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	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.
546, 2 August 2010	4	An access road wider than 4m, but less than 8m, will be constructed. As De Aar is located within the Platberg-Karoo Conservancy, this activity will be triggered.
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;

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.

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.



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

Mulilo Renewable Energy (Pty) Ltd

Name of company (if applicable):

09.09.2013

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

Cell:

021 526 5737

Fax:

021 526 9500

karen.versfeld@aurecongroup.com

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

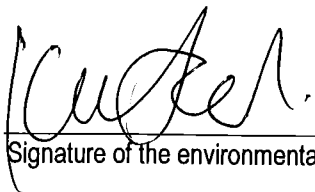
I, Karen Versfeld of Aurecon South Africa (Pty) Ltd, declare that –

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:

06/09/2013

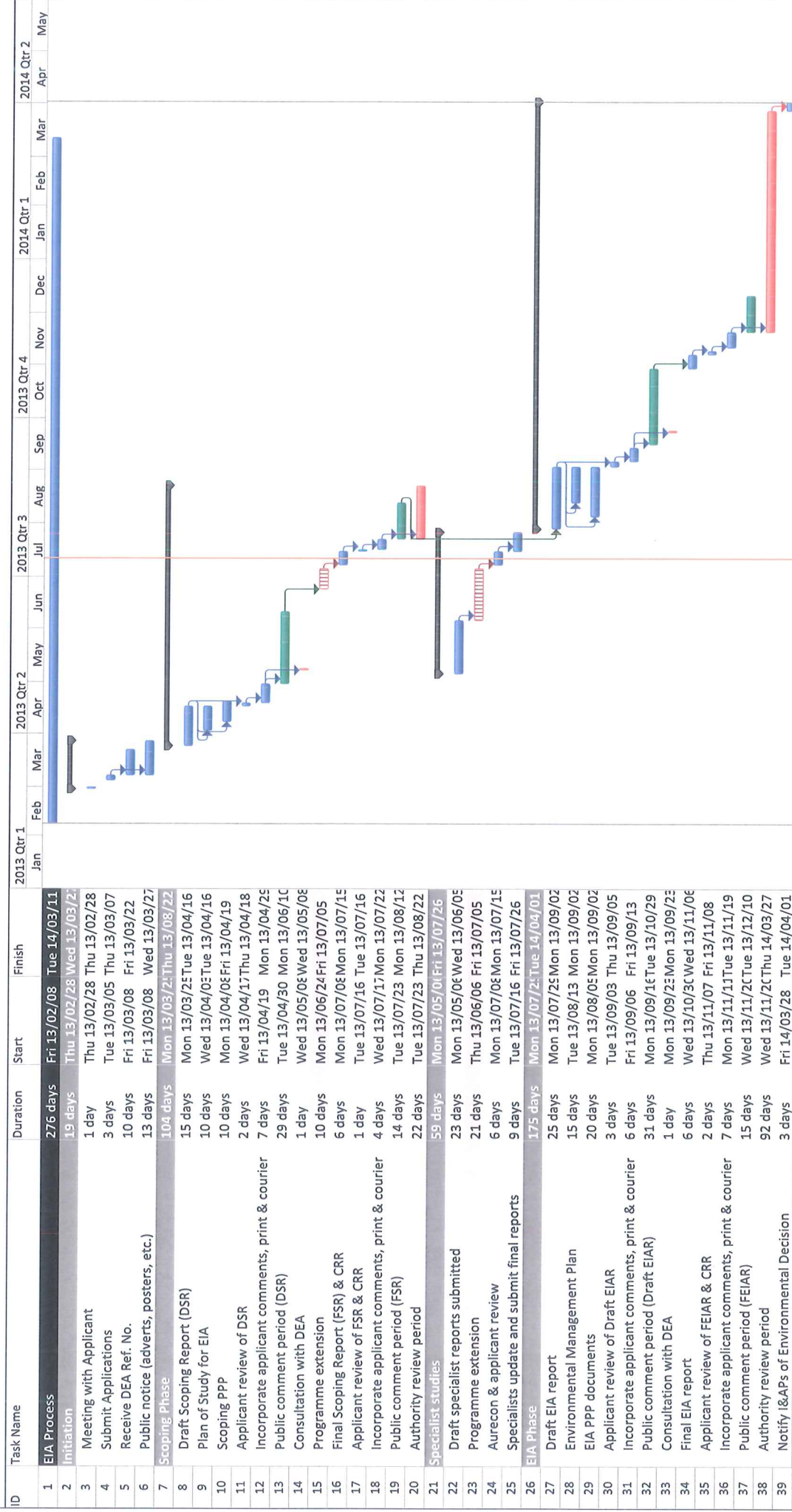
Date:

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

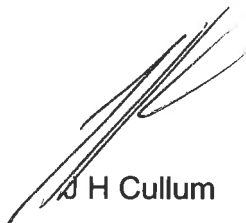
P O Box 50
Cape Town International Airports
7525 South Africa

4th March 2013

RESOLUTION

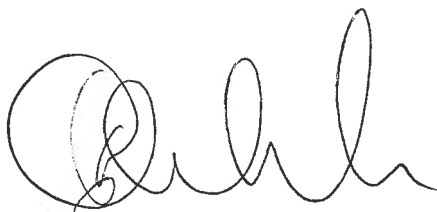
Further to a meeting of the board of Mulilo Renewable Energy (Pty) Ltd, held at Cape Town on 4th March 2013, it has been agreed that Warren Morse has the authority to sign the Application Forms for Environmental Authorisation.

Signed at Cape Town on 4th March 2013



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/EIA/0001750/2013, DEA/EIA/0001752/2013, DEA/EIA/0001753/2013
DEA Reference: 14/12/16/3/3/2/504, 14/12/16/3/3/2/483, 14/12/16/3/3/2/506, 14/12/16/3/3/2/485

Enquiries: Thabile Sangweni

Telephone: (012) 395 1761 Fax: (012) 320 7539 E-mail: TSangweni@environment.gov.za

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

Fax Number: (021) 526 9500

PER FACSIMILE / MAIL

Dear Ms Versfeld

APPLICATION FOR ENVIRONMENTAL AUTHORISATION: PROPOSED PHOTOVOLTAIC (SOLAR) ENERGY FACILITY ON BADENHORST DAM FARM NEAR DE AAR, EMTHANJENI LOCAL MUNICIPALITY, NORTHERN CAPE PROVINCE

The Final Scoping Report (FSR) and Plan of Study for Environmental Impact Assessment (PoSEIA) dated July 2013 and received by this Department on 18 July 2013 refer.

This Department has evaluated the submitted FSR and the PoSEIA dated July 2013 and is satisfied that the documents comply with the minimum requirements of the Environmental Impact Assessment (EIA) Regulations, 2010. The FSR is hereby accepted by the Department in terms of Regulation 30(1)(a) of the EIA Regulations, 2010.

You may proceed with the Environmental Impact Assessment process in accordance with the tasks contemplated in the Plan of Study for Environmental Impact Assessment and the requirements of the EIA Regulations, 2010.

All comments and recommendations made by all stakeholders and Interested and Affected Parties (I&APs) in the Draft Scoping Report and submitted as part of the FSR must be taken into consideration when preparing an environmental impact assessment report in respect of the proposed development. Please ensure that all mitigation measures and recommendations in the specialist studies are addressed and included in the final EIR and Environmental Management Programme (EMPr).

Please ensure that comments from all relevant stakeholders are submitted to the Department with the Final Environmental Impact Report (EIR). This includes but is not limited to the Northern Cape Department of Environmental Affairs and Nature Conservation, the Department of Agriculture, Forestry & Fisheries (DAFF), the South African Civil Aviation Authority (SACAA), the Northern Cape

Department of Transport, the Emthanjani Local Municipality, the district municipality, the Department of Water Affairs (DWA), the Department of Energy, the South African National Roads Agency Limited (SANRAL), Transnet, the South African Heritage Resources Agency (SAHRA) and the Square Kilometre Array (SKA).

Please be advised that the contact person for renewable projects at the SKA office is Dr Adrian Tiplady and he can be contacted on Tel: 011 442 2434 or E-mail: atiplady@ska.ac.za.

You are also required to address all issues raised by organs of state and Interested and Affected Parties (I&APs) prior to the submission of the EIR to the Department.

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

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

Please ensure that the Final EIR includes at least one legible A3 regional map of the area and the site layout map to illustrate the turbines positions and associated infrastructure. The maps must be of acceptable quality and as a minimum, have the following attributes:

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

In addition, the following additional information are required for the EIR:

- i. The application form must be amended to include the correct listed activities. The Environmental Impact Assessment report must provide an assessment of the impacts and mitigation measures for each of the listed activities applied for.
- ii. Details of the future plans for the site and infrastructure after decommissioning in 20-30 years and the possibility of upgrading the proposed infrastructure to more advanced technologies.
- iii. The total footprint of the proposed development should be indicated. Exact locations of the infrastructure, power lines and associated infrastructure should be mapped at an appropriate scale.
- iv. Should a Water Use License be required, proof of application for a license needs to be submitted.
- v. Information on services required on the site, e.g. sewage, refuse removal, water and electricity. Who will supply these services and has an agreement and confirmation of capacity been obtained? Proof of these agreements must be provided.
- vi. A copy of the final site layout map. All available biodiversity information must be used in the finalisation of the layout map. Existing infrastructure must be used as far as possible e.g. roads. The layout map must indicate the following:
 - Panel positions and its associated infrastructure;
 - 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 sensitive environmental features on site e.g. CBAs, heritage sites, wetlands, drainage lines etc. that will be affected by the facility and its associated infrastructure;
 - 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 panel 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;
 - Buffer areas;
 - Buildings, including accommodation; and
 - All "no-go" areas.
- vii. An environmental sensitivity map indicating environmental sensitive areas and features identified during the EIA process.
- viii. A map combining the final layout map superimposed (overlain) on the environmental sensitivity map.
- ix. A shapefile of the preferred development layout/footprint must be submitted to this Department. The shapefile must be created using the Hartebeesthoek 94 Datum and the data should be in Decimal Degree Format using the WGS 84 Spheroid. The shapefile must include at a minimum the following extensions i.e. .shp; .shx; .dbf; .prj; and, .xml (Metadata file). If specific symbology was assigned to the file, then the .avl and/or the .lyr file must also be included. Data must be mapped at a scale of 1:10 000 (please specify if an alternative scale was used). The metadata must include a description of the base data used for digitizing. The shapefile must be submitted in a zip file using the EIA application reference number as the title.

The shape file must be submitted to:

Postal Address:

Department of Environmental Affairs
Private Bag X447
Pretoria
0001

Physical address:

Department of Environmental Affairs
Fedsure Forum Building (corner of Pretorius and Lillian Ngoyi Streets)
4th Floor South Tower
315 Pretorius Street
Pretoria
0002

For Attention: Muhammad Essop
Integrated Environmental Authorisations

Strategic Infrastructure Developments
Telephone Number: (012) 395 1734
Fax Number: (012) 395 7539
Email Address: MEssop@environment.gov.za

The Environmental Management Programme (EMPr) to be submitted as part of the EIR must include the following:

- i. All recommendations and mitigation measures recorded in the EIR and the specialist studies conducted.
- ii. The final site layout map.
- iii. Measures as dictated by the final site layout map and micro-siting.
- iv. An environmental sensitivity map indicating environmental sensitive areas and features identified during the EIA process.
- v. A map combining the final layout map superimposed (overlain) on the environmental sensitivity map.
- vi. 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.
- vii. A plant rescue and protection plan which allows for the maximum transplant of conservation important species from areas to be transformed. This plan must be compiled by a vegetation specialist familiar with the site and be implemented prior to commencement of the construction phase.
- viii. A re-vegetation and habitat rehabilitation plan to be implemented during the construction and operation of the facility. Restoration must be undertaken as soon as possible after completion of construction activities to reduce the amount of habitat converted at any one time and to speed up the recovery to natural habitats.
- ix. An open space management plan to be implemented during the construction and operation of the facility.
- x. 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.
- xi. A transportation plan for the transport of panel components, main assembly cranes and other large pieces of equipment.
- xii. 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.
- xiii. 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.
- xiv. 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.
- xv. 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 EIR must include a cumulative assessment of the facility if there are other similar facilities in the region. The specialist studies e.g. biodiversity, visual, noise, etc. must also assess the facility in terms of potential cumulative impacts.

Please ensure that all the relevant Listing Notice activities are applied for, that the Listing Notice activities applied for are specific and that they can be linked to the development activity or infrastructure in the project description.

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

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

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

Please also find attached information that must be used in the preparation of the Environmental Impact Report. This will enable the Department to speedily review the EIR and make a decision on the application.

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 faithfully



Mr Ishaam Abader

Deputy Director-General: Legal, Authorisations, Compliance and Enforcement

Department of Environmental Affairs

Letter signed by: Ms Milicent Solomons

Designation: Director: Integrated Environmental Authorisations

Date: 12/08/2013

cc:	Ms Anga Yaphi	Northern Cape Department of Environmental Affairs and Nature Conservation	Tel: 054 332 2885	Fax: 054 331 1155
	Ms C Kloppers	Emthanjeni Local Municipality	Tel: 053 632 9100	Fax: 053 631 0105
	Mr Warren Morse	Mulilo Renewable Energy (Pty) Ltd	Tel: 021 934 5278	Fax: 021 935 0505

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 site development proposal map(s)/layer(s) that indicate:
 - Positions of solar facilities
 - Foundation footprint
 - Permanent laydown area footprint
 - Construction period laydown footprint
 - Internal roads indicating width (construction period width and operation period width) and with numbered sections between the other site elements which they serve (to make commenting on sections possible)
 - River, stream and water crossing of roads and cables indicating the type of bridging structures that will be used
 - Substation(s) and/or transformer(s) sites including their entire footprint.
 - Cable routes and trench dimensions (where they are not along internal roads)
 - Connection routes to the distribution/transmission network (the connection must form part of the EIA even if the construction and maintenance thereof will be done by another entity such as ESKOM)
 - Cut and fill areas along roads and at substation/transformer sites indicating the expected volume of each cut and fill
 - Borrow pits
 - Spoil heaps (temporary for topsoil and subsoil and permanently for excess material)
 - Buildings including accommodation

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

3. Regional map and GIS information

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

- All maps/information layers must also be provided in ESRI Shapefile format
- The map/layer must cover an area of 20km around the site
- Indicate the following:
 - roads including their types (tarred or gravel) and category (national, provincial, local or private)
 - Railway lines and stations
 - Industrial areas
 - Harbours and airports
 - Electricity transmission and distribution lines and substations
 - Pipelines
 - Waters sources to be utilised during the construction and operational phases
 - A visibility assessment of the areas from where the facility will be visible
 - Critical Biodiversity Areas and Ecological Support Areas

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

4. Important stakeholders

Amongst other important stakeholders, comments from the National Department of Agriculture, Forestry and Fisheries must be obtained and submitted to the Department. Any application, documentation, notification etc. should be forwarded to the following officials:

Ms Mashudu Marubini
 Delegate of the Minister (Act 70 of 1970)
 E-mail: MashuduMa@daff.gov.za
 Tel 012- 319 7619

Ms Thoko Buthelezi
 AgriLand Liaison office
 E-mail: ThokoB@daff.gov.za
 Tel 012- 319 7634

All hardcopy applications / documentation should be forwarded to the following address:

Physical address:
 Delpen Building
 Cnr Annie Botha and Union Street
 Office 270
 Attention: Delegate of the Minister Act 70 of 1970

Postal Address:
 Department of Agriculture, Forestry and Fisheries
 Private Bag X120
 Pretoria
 0001
 Attention: Delegate of the Minister Act 70 of 1970

In addition, comments must be requested from Eskom regarding grid connectivity and capacity. Request for comment must be submitted to:

Mr John Geeringh
 Eskom Transmission
 Megawatt Park D1Y38
 PO Box 1091
JOHANNESBURG
 2000

Tel: 011 516 7233
 Fax: 086 661 4064
John.geeringh@eskom.co.za

B. AGRICULTURE STUDY REQUIREMENTS

- Detailed soil assessment of the site in question, incorporating a radius of 50 m surrounding the site, on a scale of 1:10 000 or finer. The soil assessment should include the following:
 - Identification of the soil forms present on site
 - The size of the area where a particular soil form is found
 - GPS readings of soil survey points
 - The depth of the soil at each survey point
 - Soil colour
 - Limiting factors
 - Clay content
 - Slope of the site
 - A detailed map indicating the locality of the soil forms within the specified area,
 - Size of the site
- Exact locality of the site
- Current activities on the site, developments, buildings
- Surrounding developments / land uses and activities in a radius of 500 m of the site
- Access routes and the condition thereof
- Current status of the land (including erosion, vegetation and a degradation assessment)
- Possible land use options for the site
- Water availability, source and quality (if available)
- Detailed descriptions of why agriculture should or should not be the land use of choice
- Impact of the change of land use on the surrounding area
- A shape file containing the soil forms and relevant attribute data as depicted on the map.

C. ASTRONOMY GEOGRAPHIC ADVANTAGE ACT, 2007 (ACT NO. 21 OF 2007)

The purpose of the Act is to preserve the geographic advantage areas that attract investment in astronomy. The entire Northern Cape Province excluding the Sol Plaatje Municipality had been declared an astronomy advantage area. The Northern Cape optical and radio telescope sites were declared core astronomy advantage areas. The Act allowed for the declaration of the Southern Africa Large Telescope (SALT), MeerKAT and Square Kilometre Array (SKA) as astronomy and related scientific endeavours that had to be protected.

You are requested to indicate the applicability of the Astronomy Geographic Advantage Act, Act No. 21 of 2007 on the application in the BAR/EIR. You must obtain comments from the Southern African Large Telescope (SALT) if the proposed development is situated within a declared astronomy advantage area.

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ADDITIONAL INFORMATION REQUIRED BY THE DEA

The information required in column one corresponds with the items in the Letter from the Department of Environmental Affairs (DEA) accepting the Final Scoping Report (FSR) and the Plan of Study for Environmental Impact Assessment (EIA) (please see Annexure A for the letter from DEA dated 12 August 2013).

Nr	Information required	Where to find it in the report
1	All comments and recommendations made by all stakeholders and Interested and Affected Parties (I&APs) in the Draft Scoping Report and submitted as part of the FSR must be taken into consideration when preparing a report in respect of the proposed development.	All comments received to date were included in the Comments and Responses Reports as included in Annexure B of the Draft EIA Report. All comments received were taken into consideration throughout the preparation of the EIA report.
2	Please ensure that all mitigation measures and recommendations in the specialist studies are addressed and included in the final EIR and Environmental Management Programme (EMP)	Summaries of the specialist assessment as well as all the proposed mitigation measures were included in Section 4 of the Draft EIA Report. The specialists reports are included in Annexure E and all mitigation measures were included in the Life-cycle EMP as included in Annexure F.
3	Please ensure that comments from all relevant stakeholders are submitted to the department with the Final Environmental Impact Report (EIR). This includes but is not limited to the Northern Cape Department of Environmental Affairs and Nature Conservation, The Department of Agriculture, Forestry & Fisheries (DAFF), the South African Civil Aviation Authority (SACAA), the Northern Cape Department of Transport, the Emthanjeni Local Municipality, the district municipality, the Department of Water (DWA), the Department of Energy, the South African National Roads Agency Limited (SANRAL), Transnet, the South African Heritage Resources Agency (SAHRA) and the Square Kilometre Array (SKA).	<p>The following authorities and stakeholders are included as key stakeholders and have received copies of the Draft EIR, as indicated in the report transmittal note:</p> <ul style="list-style-type: none"> • Northern Cape (Department of Environmental Affairs and Nature Conservation) DEANC; • Department of Agriculture, Forestry and Fisheries : Directorate: Forestry Management (Other Regions); • South African Civil Aviation Authority SACAA; • Northern Cape Department of Transport; • Emthanjeni Local Municipality; • Pixley ka Seme District Municipality; • Department of Water Affairs (DWA): LOWMA; • Department of Energy (Northern Cape): Regional Energy Director;

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		<ul style="list-style-type: none"> • South African National Roads Agency Limited (SANRAL); • Transnet Ltd; • SAHRA; and • Square Kilometer Array (SKA). <p>Request for comment has been made and all comments received will be included in the Final EIA Report.</p>
4	Please be advised that the contact person for renewable projects at the SKA office is Dr Adrian Tiplady and he can be contacted on Tel: 011 442 2434 or Email: atiplady@ska.ac.za .	Noted. Square Kilometre Array (SKA) has been included as a key stakeholder.
5	You are also required to address all issues raised by organs of state and Interested and Affected Parties (I&APS) prior to the submission of the EIR to the Department.	All issues raised to date were recorded in the Comments and Responses Reports as included in Annexure B of the Draft EIA Report.
6	Proof of correspondence with the various stakeholders must be included in the Final EIR. Should you be unable to obtain comments, proof should be submitted to the Department of the attempts that were made to obtain comments.	Proof of correspondence with Authorities and I&APs were included in Annexure B of the Draft EIA Report.
7	The EAP must, in order to give effect to Regulation 56(2), give registered interested and affected parties access to, and an opportunity to comment on the report in writing within 21 days before submitting the final environmental impact assessment report to the Department.	Letters requesting comments will be send to all registered I&APs. In addition the Final EIA Report will also be made available at the De Aar Public Library and on the Aurecon website for a period of 21 days.
8	<p>Please ensure that the Final EIR includes at least one legible A3 regional map of the area and the site layout map to illustrate the panel positions and associated infrastructure. The maps must be of acceptable quality and as a minimum, have the following attributes:</p> <ul style="list-style-type: none"> • Maps are relateable to one another • Cardinal points • Co-ordinates • Legible legends • Indicate alternatives • Latest land cover • Vegetation types of the study area; and 	Please see the A3 locality map and site layout plan included in Annexure A. The maps depicting the alternatives are included in Chapter 3 of the Draft EIA Report. The vegetation types of the study area are described in the Botanical Impact Assessment summarised in Section 4.1 and also included in Annexure E. A land cover map will be included in the Final EIR.

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	<ul style="list-style-type: none"> • A3 size locality map 	
9	<p>In addition, the following additional information are required for the EIR:</p> <ol style="list-style-type: none"> The application form must be amended to include the correct listed activities. The Environmental Impact Assessment report must provide an assessment of the impacts and mitigation measures for each of the listed activities applied for. Details of the future plans for the site and infrastructure after decommissioning in 20-30 years and the possibility of upgrading the proposed infrastructure to more advanced technologies The total footprint of the proposed development should be indicated. Exact locations of the infrastructure, power lines and associated should be mapped at an appropriate scale. Should a Water use license be required, proof of application for a license needs to be submitted. Information on services required on the site, e.g. sewage, refuse removal, water and electricity. Who will supply these services and has an agreement and confirmation of capacity been obtained? Proof of these agreements must be provided A copy of the final site layout map. All available biodiversity information must be used in the finalisation of the layout map. Existing infrastructure must be used as far as possible e.g. roads. The layout map must indicate the following: <ul style="list-style-type: none"> • Panel positions and its associated infrastructure • 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 sensitive environment features on site e.g. CBAs, heritage sites, wetlands, drainage lines etc. that will be affected by the facility and its associated infrastructure • 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 panel sites, along roads and at sub-station/transformer sites indicating the 	<ol style="list-style-type: none"> The revised application forms are included in Annexure A. All impacts and mitigation measures have been considered. Please see section 3.1.6 of the EIA Report. The total footprints are indicated in Chapter 3. See Table 8 and Table 12 of the Draft EIA Report. The Department of Water Affairs requested that Water Use Licence Applications only be submitted for renewable energy projects after the environmental process has been completed. Therefore the Water Use Licence will be applied for as a separate process to the EIA. As indicated in Section 3.1.3 It is proposed that potable water be obtained from the Emthanjeni Municipality via a proposed underground pipeline linking to the nearest municipal supply point. Water would be stored onsite in a jo-jo tank. The Municipality still needs to confirm available capacity to facilitate this water requirement however, the Municipality previously confirmed in excess of 15 times the amount of water required for the construction of a 75MW facility and some 18 times the amount required for operations of a 75MW facility. Based on this excess allocation it can be confirmed that there will be no deficit in terms of municipal supply, however the municipality would have to confirm once preliminary design

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	<p>expected volume of each cut and fill</p> <ul style="list-style-type: none"> • Borrow pits • Spoil heaps (temporary for topsoil and subsoil and permanently for excess material) • All existing infrastructure on the site, especially roads • Buffer areas • Building, including accommodation; and • All “no-go” areas <p>VII. An environmental sensitivity map indicating environmental sensitive areas and features identified during the EIA process.</p> <p>VIII. A map combining the final layout map superimposed (overlain) on the environmental sensitivity map.</p> <p>IX. A shapefile of the preferred development layout/footprint must be submitted to this Department. The shapefile must be created using the Hartebeesthoek 94 Datum and the data should be in Decimal Degree format using the WGS 84 Spheroid. The shapefile must include at a minimum the following extensions i.e. .shp; .shx; .dbf; .prj; and, xml (Metadata file). If specific symbology was assigned to the file, then the avl and /or the lyf file must also be included. Data must be mapped at a scale of 1:10 000 (Please specify if an alternative scale was used). The metadata must include a description of the base data used for digitizing. The shapefile must be submitted in a zip file using the EIA application reference number as the title.</p> <p>The shape file must be submitted to:</p> <p>Postal Address: Department of Environmental Affairs Private Bag X447 Pretoria 0001</p> <p>Physical address: Department of Environmental Affairs Fedsure Forum Building (corner of Pretorius and Lillian Ngoyi Streets) 4th Floor South 315 Pretorius Street</p>	<p>commences.</p> <p>VI) A final site layout map will be provided in the Final EIA report. However, some of the information requested would only be available at detailed design stage and would not be included in the map.</p> <p>VII) An environmental sensitive map will be included in the Final EIA Report.</p> <p>VIII) To be included in the Final EIA Report.</p> <p>IX) To be included on the Electronic copy of the Final EIA Report</p>
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	<p>Pretoria 0002</p> <p>For Attention: Muhammad Essop Integrated Environmental Authorisations Strategic Infrastructure Developments Telephone Number: (012) 395 1734 Fax Number: (012) 395 7539 Email Address: (MEssop@environment.gov.za)</p>	
10	<p>The Environmental Management Programme (EMPr) to be submitted as part of the EIR must include the following:</p> <ol style="list-style-type: none"> I. All recommendations and mitigation measures recorded in the EIR and the specialist studies conducted. II. The final site layout map. III. Measures as dictated by the final site layout map and micro-siting. IV. An environmental sensitivity map indicating environmental sensitive areas and features identified during the EIA process V. A map combining the final layout map superimposed (overlain) on the environmental sensitivity map. VI. 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. VII. 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 after completion of construction activities to reduce the amount of habitat converted at any one time and to speed up the recovery to natural habits. VIII. A re-vegetation and habitat rehabilitation plan to be implemented during the construction and operation of the facility. Restoring must be undertaken as soon as possible after completion of construction activities to reduce the amount of habitat converted at any one time and to speed up the recovery to natural habitats. IX. An open space management plan to be implemented during the construction and operation of the facility. X. A traffic management plan for the site access roads to ensure that no hazards would results form 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 	<p>The LEMP, as included in Annexure D of the EIA Report includes the following:</p> <ol style="list-style-type: none"> I) All recommendations and mitigation measures. II) Draft site layout map (Final to be included in LEMP submitted with the Final EIA Report). III) Mitigation measures included. IV) Draft map included in Figure 1 (Final to be included in LEMP submitted with the Final EIA Report). V) Draft map included in Figure 1 (Final to be included in LEMP submitted with the Final EIA Report). VI) Measures to manage alien species are included in the LEMP. VII) Recommendations were included in the LEMP. VIII) Recommendations were included in the LEMP. IX) As indicated in the LEMP, this will be undertaken during the planning phase X) As indicated in the LEMP, this will be undertaken during the planning phase

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	<p>populated built-up areas so as not to disturb existing retail and commercial operations.</p> <p>XI. A transportation plan for the transport of panel components, main assembly cranes and other large pieces of equipment.</p> <p>XII. 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 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.</p> <p>XIII. 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.</p> <p>XIV. 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.</p> <p>XV. 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 spelling of pollutants.</p>	<p>XI) As indicated in the LEMP, this will be undertaken during the planning phase</p> <p>XII) Please see Annexure C of the LEMP and Annexure E of the EIA Report.</p> <p>XIII) Please see Section 7 of the LEMP</p> <p>XIV) Recommendations were included in the LEMP</p> <p>XV) Please see Annexure E of the EIA report. All mitigation measures were included in the LEMP.</p>
11	The EIR must include a cumulative assessment of the facility if there are other similar facilities in the region. The specialist studies e.g. biodiversity, visual, noise, etc. must also assess the facility in terms of potential cumulative impacts.	Please see Section 4 of the EIA report describing the potential cumulative impacts.
12	Please ensure that all the relevant listing notice activities are applied for, that the listing notice activities applied for are specific and that they can be linked to the development activity or infrastructure in the project description	Please see the revised Application Forms included in Annexure A and the project description provided in Section 3.
13	The applicant is hereby reminded to comply with the requirements of Regulation 67 with regard to the time period allowed for complying with the requirements of the regulations, and regulations 56 and 57 with regard to the allowance of a comment period for interested and affected parties on all reports submitted to the competent authority for decision-making. The reports referred to are listed in Regulation 56(3a-3h)	Noted.
14	Furthermore, it must be reiterated that, should an application for Environmental authorisation be subject to the provisions of Chapter 11, section 38 of the National Heritage Resources Act, Act 25 of 1999 (NHRA), then this Department will not be able to make nor issue a decision in terms of your application for Environmental	Noted. A Heritage and Palaeontology Impact Assessment were undertaken (as included in Annexure E) and an application in terms of

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	Authorisation pending a letter from the pertinent heritage authority categorically stating that the application fulfils the requirements of the relevant heritage resources authority as described in Chapter 11, Section 38(8) of the National Heritage Resources Act, Act 25 of 1999.	Chapter 11, section 38 of the NHRA would not be required.
15	You are requested to submit two (2) electronic copies (CD/DVD and two(2) hard copies of the Environmental Impact Report (EIR) to the Department as per regulation 34(1)(b) of the EIA Regulation, 2010	Please find enclosed.
16	Please also find attached information that must be used in the preparation of the environmental impact report. This will enable the department to speedily review the EIR and make a decision on the application.	Noted.
17	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.	Noted.
18	<p>A. EIA INFORMATION REQUIRED FOR SOLAR ENERGY FACILITIES</p> <p>1. General site information</p> <p>The following general site information is required:</p> <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> ➢ 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 deliver points <p>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.</p>	<p>The following was included:</p> <ul style="list-style-type: none"> • For a description of the affected farm portions please see Section 3 of the EIA Report • 21 digit surveyor general codes were included in the Application Forms included in Annexure A of the EIA Report • Copies of deeds of all affected farm portions to be provided in the Final EIA Report • Please see Section 3 and 4 for photographs of the site • For photograph from sensitive visual receptors please see Section 4.9 of the EIA Report • Solar plant design specifications are included in Section 3 of the EIA report • Generation capacity of the two layout alternatives are described in Section 3 of the EIA report.
19	<p>2. Site Maps and GIS information</p> <p>Site maps and GIS information should include at least the following:</p>	All of the ESRI shapefiles will be enclosed in the Final EIR. However, DEA must please note that

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<ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> ➤ Current use of land on the site including: <ul style="list-style-type: none"> ▪ 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) <ul style="list-style-type: none"> ▪ 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: <ul style="list-style-type: none"> ➤ Less than 8% slope ➤ Between 8% and 12% slope ➤ Between 12% and 14% slope ➤ Steeper than 18% slope • A site development proposal map(s)/layer(s) that indicate: <ul style="list-style-type: none"> ➤ Positions of solar facilities ➤ Foundation footprint ➤ Permanent laydown area footprint ➤ Construction period laydown footprint 	<p>some of the information requested would only be available after detailed designs have been undertaken.</p>
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	<ul style="list-style-type: none"> ➤ Internal roads indication 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/transformation sites indicating the expected volume ➤ Borrow pits ➤ Spoil heaps (temporary for topsoil and subsoil and permanently for excess material) ➤ Buildings including accommodation <p>With the above information authorities will be able to assess the strategic and site impacts of applications.</p>	
20	<p>3. Regional map and GIS information</p> <p>The regional map and GIS information should include at least the following:</p> <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> ➤ Roads including their types (tarred or gravel) and category (national, provincial, local or private) ➤ Railway lines and stations ➤ Industrial areas ➤ Harbours and airports ➤ Electricity transmission and distribution lines and substations ➤ Pipelines ➤ Waters sources to be utilised during the construction and operational phases ➤ A visibility assessment of the areas from where the facility will be visible ➤ Critical biodiversity areas and ecological support areas ➤ Critically endangered and endangered vegetation areas 	Will be included in the Final EIA Report.

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ADDITIONAL INFORMATION REQUIRED BY THE DEA

	<ul style="list-style-type: none"> ➤ Agricultural fields ➤ Irrigated areas ➤ An indication of new road or changes and upgrades that must be done to existing roads in order to get equipment onto the site including cut and fill areas and crossings of rivers and streams 	
21	<p>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. Any application, documentation, notification etc. should be forwarded to the following officials:</p> <p>Ms Mahudu Marubini Delegate of the Minister (Act 70 of 1970) E-mail: MashuduMa@daff.gov.za Tel: 012 319 7619</p> <p>Ms Thoko Buthelezi Agriland Liaison office E-mail: ThokoB@daff.gov.za Tel 012 319 7634</p> <p>All hardcopy applications/ documentation should be forwarded to the following address:</p> <p><u>Physical address:</u> Delpen Building Cnr annie botha and Union Street Office 270 Attention: Delegate of the Minister Act 70 of 1970</p> <p><u>Postal Address:</u> Department of agriculture, Forestry and fisheries Private Bag x120 Pretoria 0001</p>	<p>Noted. These departments have been included as key stakeholders. Requests for comment have been made.</p>

EIA FOR THE PROPOSED PV FACILITIES FOR BADENHORST DAM, NEAR DE AAR

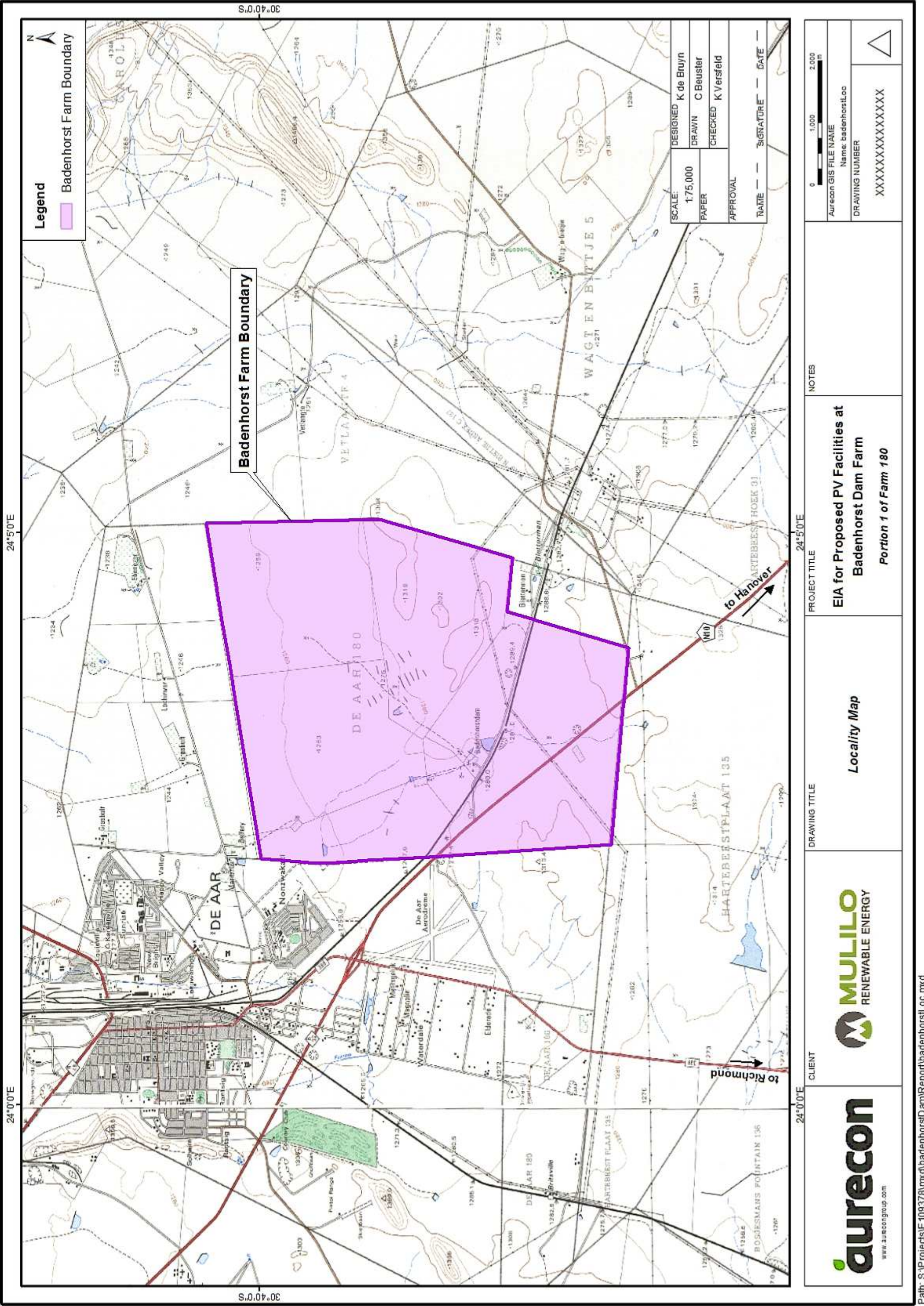
ADDITIONAL INFORMATION REQUIRED BY THE DEA

	<p>Attention: Delegate of the Minister Act 70 of 1970</p> <p>In addition, comments must be requested from Eskom regarding grid connectivity and capacity. Request for comment must be submitted to:</p> <p>Mr John Geeringh Eskom Transmission Megawatt Park D1Y38 PO Box 1091 Johannesburg 2000</p> <p>Tel: 011 516 7233 Fax: 086 661 4064 John.geeringh@eskom.co.za</p>	<p>Mr John Geeringh has been included as a key stakeholder. Request for comment has been made.</p>
22	<p>B. AGRICULTURE STUDY REQUIREMENTS</p> <ul style="list-style-type: none"> • Detailed soil assessment of the site in question, incorporation a radius of 50m surrounding the site, on a scale of 1:10 000 or finer. The soil assessment should include the following: <ul style="list-style-type: none"> — Identification of the soil forms present on site — The size of the area where a particular soil form is found — GFA reading 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 specific 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 500m of the site 	<p>Please see Annexure E for the Agricultural Impact Assessment.</p>

EIA FOR THE PROPOSED PV FACILITIES FOR BADENHORST DAM, NEAR DE AAR

ADDITIONAL INFORMATION REQUIRED BY THE DEA

	<ul style="list-style-type: none"> • 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 • 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. 	
23	<p>C. <u>Astronomy geographic advantage act, 2007 (Act No. 21 of 2007)</u></p> <p>The purpose of the Act is to preserve the geographic advantage areas that attract investment in astronomy. The entire Northern Cape Province excluding the Sol Plaatjie Municipality had been declared an astronomy advantage area. The northern Cape optical and radio telescope sites were declared core astronomy advantage areas. The Act allowed for the declaration of the Southern Africa Large Telescope (SALT), MeerKAT and Square Kilometre array (SKA) as astronomy and related scientific endeavours that had to be protected.</p> <p>You are requested to indicate the applicability of the Astronomy geographic Advantage Act, Act No. 21 of 2007 on the application in the BAR/EIR. You must obtain comments from the Southern African Large Telescope (SALT) if the proposed development is situated within a declared astronomy advantage area.</p>	The proposed development is not situated within a declared astronomy advantage area.



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PAPER	CHECKED	K Versfeld	
APPROVAL			
NAME		SIGNATURE	DATE

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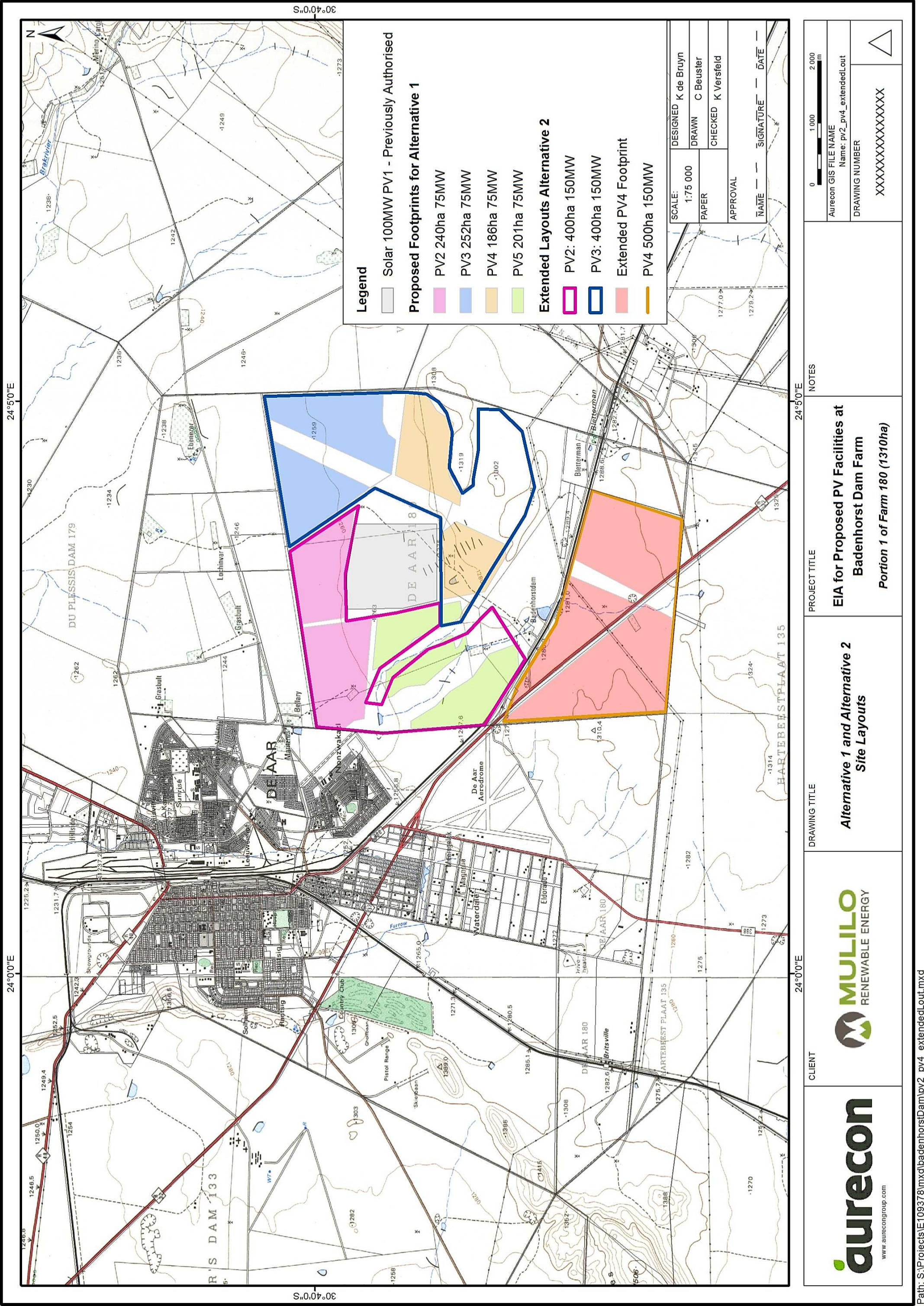
NOTES

PROJECT TITLE
EIA for Proposed PV Facilities at
Badenhorst Dam Farm
Portion 1 of Farm 180

DRAWING TITLE
Locality Map

CLIENT

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24°50'E


24°00'E

30°40'S


30°40'S

24°50'E

24°00'E



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Alternative 1 and Alternative 2
Site Layouts

DRAWING TITLE


EIA for Proposed PV Facilities at
Badenhorst Dam Farm
Portion 1 of Farm 180 (1310ha)

PROJECT TITLE

NOTES

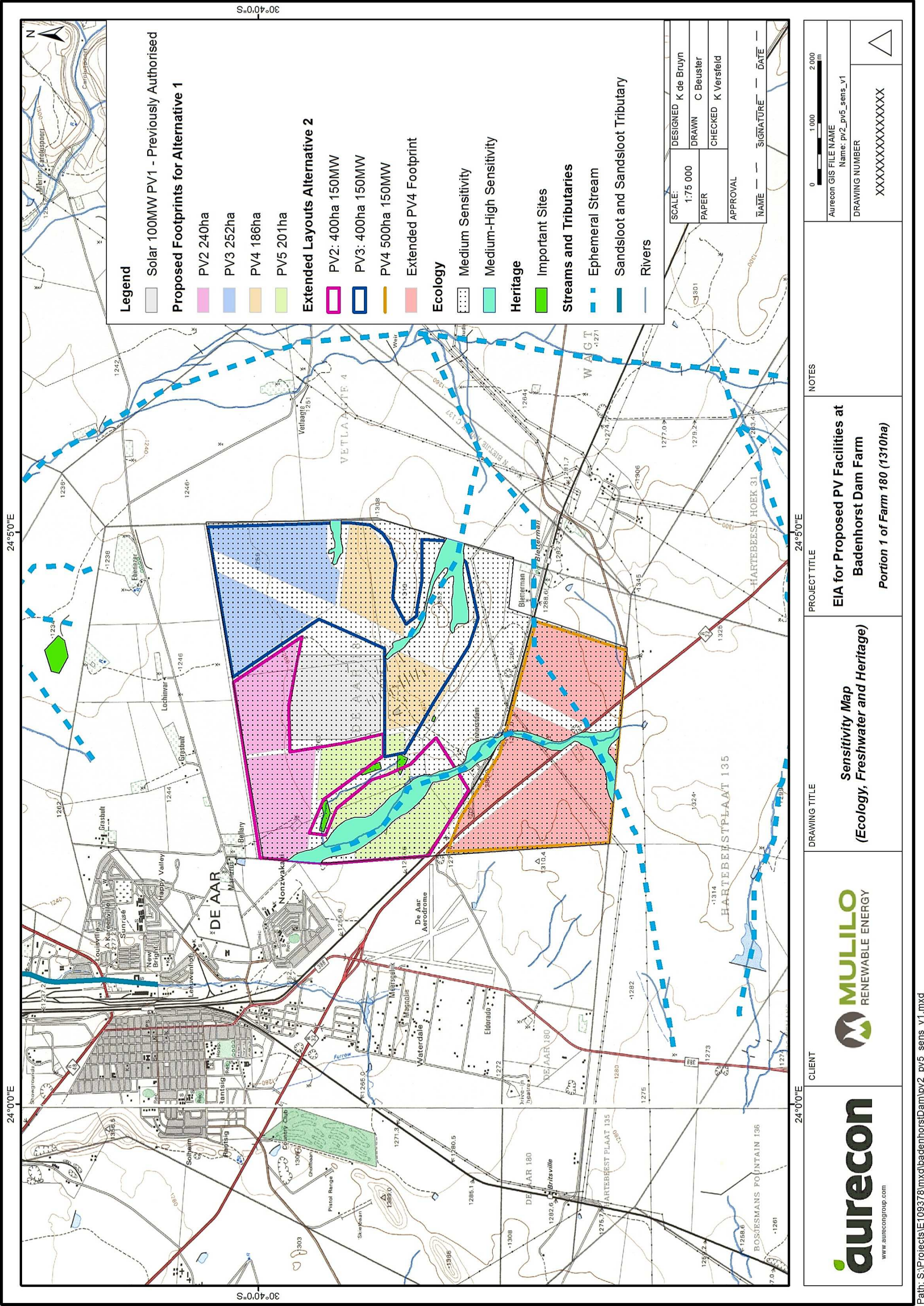
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Legend

Solar 100MW PV1 - Previously Authorised

Proposed Footprints for Alternative 1

- PV2 240ha
- PV3 252ha
- PV4 186ha
- PV5 201ha

Extended Layouts Alternative 2

- PV2: 400ha 150MW
- PV3: 400ha 150MW
- PV4 500ha 150MW
- Extended PV4 Footprint

Ecology

- Medium Sensitivity
- Medium-High Sensitivity


Heritage

Important Sites


Streams and Tributaries

- Ephemeral Stream
- Sandsloot and Sandsloot Tributary
- Rivers

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DRAWING TITLE

Sensitivity Map
(Ecology, Freshwater and Heritage)

PROJECT TITLE

EIA for Proposed PV Facilities at
Badenhorst Dam Farm
Portion 1 of Farm 180 (1310ha)

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