

environmental affairs

Department: Environmental Affairs REPUBLIC OF SOUTH AFRICA

APPLICATION FORM FOR ENVIRONMENTAL AUTHORISATION

File Reference Number: NEAS Reference Number: Date Received: ((For officient urse only)) 14/12/16/3/3/2/456 DEAT/EIA/0001773/2013

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 du Plessis PV4) on Du Plessis 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

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

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

SITE IDENTIFICATION AND LINKAGE

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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.

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(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 du Plessis PV4) on Annex Du Plessis Dam Farm near De Aar, Northern Cape

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1. BACKGROUND INFORMATION

Project applicant:	Mulilo Renewable Energy (Pty) Lt	td				
Trading name (if any):						
Contact person:	Warren Morse					
Physical address:	Office 301 Execujet Business Co		Road, Cape Town International			
Postal address:	PO Box 50, Cape Town Internation	onal 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 En	vironmental A	ffairs and Nature Conservation			
Contact person:	Thato Molese or Chamuwari J Ke					
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		L			
	0 133					
Landowner:	Roelof Stephanus Du Plessis (ple	ase see Annex	ure C).			
Contact person:	Roelof Stephanus Du Plessis					
Postal address:	PO Box 213, De Aar					
Postal code:	7000	Cell:	082 574 6371			
Telephone:	053 631 0042	Fax:				
E-mail:	charlduplessis@telkomsa.net					
	In instances where there is more	e than one lan	downer, please attach a list of $igslash$			
	landowners with their contact de	tails to this ap	plication.			
Local authority in whose	Emthanjeni Local Municipality					
jurisdiction the						
proposed activity will						
fall:						
Nearest town or	De Aar, Northern Cape.					
districts:						
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 proposed for the PV facility and it is possible that these might be within 32 meters of small tributaries.
544, 2 August 2010	<u>18 (i)</u>	Attenuation ponds would need to be constructed within watercourses in order to manage the onsite storm water.
545, 2 August 2010	1	The proposed PV facility 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

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

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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

1

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

- am, or represent³, the applicant in this application;
- have appointed / will appoint (delete that which is not applicable) an environmental assessment
- practitioner to act as the independent environmental assessment practitioner for this application /
- will obtain exemption from the requirement to obtain an environmental assessment practitioner⁴;
- will provide the environmental assessment practitioner and the competent authority with access
 to all information at my disposal that is relevant to the application;
- will be responsible for the costs incurred in complying with the Environmental Impact Assessment

Regulations, 2010, including but not limited to -

- costs incurred in connection with the appointment of the environmental assessment practitioner or any person contracted by the environmental assessment practitioner;
- costs incurred in respect of the undertaking of any process required in terms of the Regulations;
- costs in respect of any fee prescribed by the Minister or MEC in respect of the Regulations;
- costs in respect of specialist reviews, if the competent authority decides to recover costs; and
- the provision of security to ensure compliance with conditions attached to an environmental authorisation, should it be required by the competent authority;

will ensure that the environmental assessment practitioner is competent to comply with the requirements of these Regulations and will take reasonable steps to verify whether the EAP complies with the Regulations;

will inform all registered interested and affected parties of any suspension of the application as well as of any decisions taken by the competent authority in this regard;

am responsible for complying with the conditions of any environmental authorisation issued by the competent authority;

hereby indemnify the Government of the Republic, the competent authority and all its officers, agents and employees, from any liability arising out of the content of any report, any procedure or any action which the applicant or environmental assessment practitioner is responsible for in terms of these Regulations;

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

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

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

⁴ If exemption is obtained from appointing an EAP, the responsibilities of an EAP will automatically apply to the person conducting the environmental impact assessment in terms of the Regulations.

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

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

Name of company (if applicable):

09.09.2013

Date:

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 $^{^{5}}$ 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

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DETAILS OF EAP AND DECLARATION OF INTEREST

File Reference Number: NEAS Reference Number: Date Received: ((Fiero)(#tell:11/915200615/)) 14/12/16/3/3/2/456 DEAT/EIA/0001773/2013

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 du Plessis PV4) on Du Plessis Dam Farm near De Aar, Northern Cape

Environmental Assessment Practitioner (EAP): ¹	Aurecon South Africa (Pty) Ltd	<u> </u>				
Contact person:	Miss Karen Versfeld					
Postal address:	PO Box 494, Cape Town					
Postal code:	8000	Cell:				
Telephone:	021 526 5737	Fax:	021 526 9500			
E-mail:	karen.versfeld@aurecongroup.com		<u> </u>			
Professional affiliation(s) (if any)	Miss Versfeld is registered as a Candidate Natural Scientist with SACNASP					
Project Consultant:	N/A					
Contact person:						
Postal address:						
Postal code:		Cell:				
Telephone:		Fax:				
E-mail:						

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:

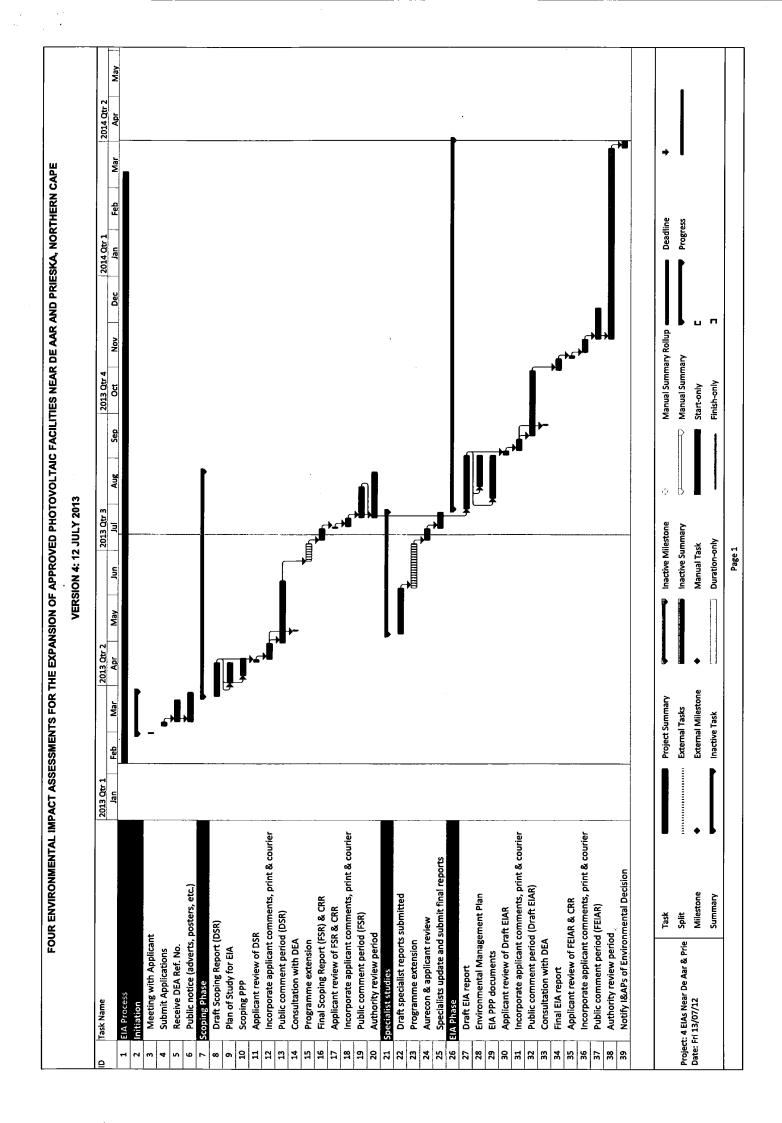
Aurecon South Africa (Pty) Ltd

Name of company: 19013 09

Date:

ANNEXURE A

Project Programme



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 Ernail : <u>chris@capedeep.com</u> 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

H Cullum

Director

C Aberdein

Director

Directors: CD Aberdein, J Coetsee, D J Crombie, J H Cullum Mulilo Renewable Energy (Pty) Ltd Registration number: 2008 / 010114 / 07 PO Box 50 Cape Town International Airport Cape Town 7525 South Africa

ANNEXURE C

Landowner Consent



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AW8/w/lease : 06/04/09

MEMORANDUM VAN HUUROOREENKOMS

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aangegaan en gesluit tussen

Du Plessis Rodof Stephanus Id 390921 5023 085

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(Registrasienommer:

(die 'VERHUURDER')

en

MULILO RENEWABLE ENERGY (EDM\$) BPK

(Registrasienommer: 2008/010114/07)

(die 'HUURDER')

N-Kaufz

1. INTERPRETASIE

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

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1.1 beteken die VERHUURDER:

1.2

Du Plessis, Roelof Stephanus

- .2 beteken die HUURDER Muliio 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, Philipstown KD 1790 Renauning Extant gehou onder titelakte T...15093/1986....., en met oppervlakte van 1244,5563 ha, maar uitgesluit alle geboue, plaasgereedskap en -Implemente, voorraad, voertuis 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.

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DA 28

AWS/vw/lease : 06/04/09

MEMORANDUM VAN HUUROOREENKOMS

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aangegaan en gesluit tussen

Du Plessis Rodof Stephanus 1390921 5023 085 Id 390921 5023 085

)

(Registrasienommer:

(die 'VERHUURDER')

en

MULILO RENEWABLE ENERGY (EDMS) BPK

(Registrasienommer: 2008/010114/07)

(die 'HUURDER')

R Adul

1. INTERPRETASIE

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

1.1 beteken die VERHUURDER: Du Plessis Roelof Stephanus

- 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, Philipstown KD 1790 Revauning Extent gehou onder titelakte T. 15093/1986....., en met oppervlakte van 1244,5563 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.



Paarde Valley Farm No. 145 Portion 2

DADJ.

082 822 4557 Mrs Daules

AWASAANAGase : 06/04/09

MEMORANDUM VAN HUUROOREENKOMS

aangegaan en gesluit lussen

Marais Louis Charles Trustee MT 1189/99

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-X-

(Registrasienommer:

(dio 'VERHUURDER')

en

MULILO RENEWABLE ENERGY (EDMS) BPK

(Registrasienommer: 2008/010114/07)

(die 'HUURDER')

PAGE 04/18

2

1. INTERPRETASIE

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

1.1

beteken die VERHUURDER: Marais Louis Charles Trustee

MT 1189/99

1.2

1.3

- beteken die HUURDER Matito Renewable Energy (Edms) Bok Ltd, Registrasienommer: 2008/010114/07, verteenwoordig deur Johannes Coetsee, wie behoorlik gemeglig is om as sodanig op te tree, van p/a Keeromstraat 68, Kaapstad, 8001;
- beleken die HUURPERSEEL die plaas beskryf as 145/2 Philipstown Rd Barde Valley gehou onder titelakte T. 19715/1986 met oppenvlakte van 1102, 4954 ha, maar uitgesluit alle geboue, plaasgereedskep en implemente, voorreed. voortuie 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 sonicagopwekking doeleindes nie;
- 1.4

beteken die AANVANGSDATUM đie datum yan ondertekening van bierdie Huurooreenkoms deur die party daartoe wat dit jaaste onderteken;

beteken die OKKUPASIEDATUM die Aanvangsdatum;

1,6

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beteken die AKTIVERINGSDATUM die eerste datum wat in turbine krag aan Eskom of in ander kommersiële gebnülker lewer, abos voorsiening voor gemaak word in klousule 5.4 hieronder.







DE AAR TRANSMISSIELYN		
PROJEK NR:	ITEM NR:	

OPSIE OM 'N SERWITUUT TE VERKRY

Ons, die ondergetekendes,

1.	Emthanjeni Munisipaliteit hierin verteenwoordig Adres:Voortrekkerstraat 45,De Aar	deur Mnr. Isak Visser Munisipale besluurder
	Poskode 7000	ID Nr
	Tel Nr	
	C/O; Ms C Klopper	.Epos cklopper@emthanjeni.co.za
2.		
	Poskode	ID Nr
		Cel Nr
	Getroud buite/binne GVG op: die GEREGISTREERDE EIENAAR/S (hierna ge	Epos:
3.	Mulilo Hernubare Energie (Pty) Ltd	
	Adres: Posbus 50, Kaapslad Internasion	nale Lughawe
	Poskode	ID Nr:
		Cel Nr
	Getroud buile/binne GVG op:	Epos:
	synde die KOPER/S : HUURDER/S (hierna geno	em die koper/huurder*) en
4.		
	PoskodeID	Nr:
	Tel Nr Cel Nr:	Epos:
	synde die VRUGGEBRUIKER/ERFGENAME (hie	erna genoem die "vruggebruiker/erfgenaam")
Hlerna a	almal gesamentlik of afsonderlik genoem die "EIE	NAAR" van die volgende elendom/me, volgens titelaktes:
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	genoem die "elendom") verleen hiermee aan	Sector in the hourse

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- 3 -Augu leenwoordigheid van die ondergetekende geluies: AS GETULES: lt stopped 1. 2. Geregistreerde Eichael Of Gemagtigde Agent teenwoordigheld van die ondergetekende getuies: AS GETUIËS: 1. 2. Geregistreerde Eienaar of Gemagtigde Agent Geteken te KAAPSTAD op hierdie 12 dag van JULIC 20.10 in die teenwoordigheid van die ondergetekende getuies: AS GETUIËS: 1. 6.0 2. 6per/Huurder teenwoordigheid van die ondergetekende getuies; AS GETUIËS: 1. *** 2, -----Vruggebruiker/Erfgenaam Die eienaar/s gee hiermee toestemming dat die Elenaar/s tille akte en verband besonderhede: vergoeding In hierdie opsie in die vlogende bank rekening betaal word: Title Akte In bewaring by:Emthanjeni Munisipaliteit Rekening Houer: Emthanjeni Munisipaliteit...... Adres..... Voortrekkerstraat 45......De Aar..... Bank Rek. No.: ... 185 000 0081..... Verband Houer: Bank: ... ABSA De Aar..... Adres: Tak naam :De Aar.... Tel Tak kode:...... 33 4308... Elenaar Belasting Besonderhede: **MULILO Verteenwoordiger** SARS (Belasting) No. ZELDA STRAUSS - 082 494 6313



DE AAR TRANSMISSIELYN		
PROJEK NR:	ITEM NR:	
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OPSIE OM 'N SERWITUUT TE VERKRY

Ons, die ondergetekendes,

1.	Emthanjeni Munisipal	iteit hierin verteenwoordig	deur Mnr. Isak Visser Munisipale bestuurder
	Adres: Voortrek	kerstraat 45,De Aar	
	Poskode7000		ID Nr:
		100	
	C/O: Ms C Klopper		.Epos cklopper@emthanjeni.co.za,
2.			
	Adres:		
	Poskode		ID Nr
	Tel Nr.		Ceł Nr
	Getroud buite/binne G	VG op:	Epos:
	die GEREGISTREER	DE EIENAAR/S (hiema g	enoem die "geregistreerde eienaar") en
3.	Mulilo Hernubare Ener	gle (Pty) Ltd	
	Fulca	s ov, naapsiad internasio	nale Lugnawe
	Poskode		ID Nr.
	Tel Nr021934526	58	Cel Nr
	Getroud buite/binne G	VG op:	.Epos:
	synde die KOPER/S : I	HUURDER/S (hiema gen	oem die koper/huurder") en
4.			
	Adres:		
	Poskode	ID	N_
	Tal Nr		Nr
	evade die VALIOOERD		Epos:
	Synce the AUOGOEDR	UNCREAFGENAME (N	erna genoem die "vruggebruiker/erfgenaam")
Ніета а	almal gesamentlik of afs	onderlik genoem die "Ele	NAAR" van die volgende elendom/me, volgens titelaktes:
PLAAS	NAAM:	De Aar	,
REGIST	RASIE AFDELING:	Re/180	
PLAASL	IKE OWERHEID:	Philipstown RD	
GROOT	TE:		1040.4083 H
TITELA	CTE NR: Gehou kradler	s Akte nommer T21	97/1921
(hierna d	jenoem die "elendom")	verleen hiermen aan	077 194 1
	,	ANAALI HEALINGE COL	I

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- 3 op hierdie Geleken te 20.1*0*... in die ... dag van .. teenwoordigheid van die ondergetekende getuies: AS GETUIËS: 1. 2. Geregistreerd of of Gemagtigde Agent teenwoordigheld van die ondergetekende getuies: AS GETUIES: 1. 2, Geregistreerde Elenaar of Gemagtigde Agent Geleken le KAAPSTIAD op hierdie 12. dag van JULIE 20. in die teenwoordigheid van die ondergetekende geluies; AS GETULÉS: rocte 1. 2. Koper/Huurder teenwoordigheld van die ondergetekende getuies: AS GETUIES: 1. 2 Vruggebruiker/Erfgenaam Die eienaar/s gee hiermee toestemming dat die Eienaar/s title akte en verband besonderhede: vergoeding in hierdie opsie in die vlogende bank rekening betaal word; Title Akte in bewaring by:Emthanjeni Munisipaliteit Rekening Houer: Emthanjeni Munisipaliteit...... Adres..... Voortrekkerstraat 45......De Aar..... Bank Rek. No.: ... 185 000 0081..... Verband Houer: Bank: ...ABSA De Aar..... Adres: Tak naam :De Aar..... Tel: Eienaar Belasting Besonderhede: **MULILO Verteenwoordiger** SARS (Belasting) No. ZELDA STRAUSS - 082 494 6313



School 2 30001.

DAZ6 -

AWS/vw/lease : 06/04/09

MEMORANDUM VAN HUUROOREENKOMS

Ł

aangegaan en gesluit tussen

Davies Enic Kenneth 92 470928 5056083

)

(Registrasienommer:

(die 'VERHUURDER')

en

MULILO RENEWABLE ENERGY (EDMS) BPK

(Registrasienommer: 2008/010114/07)

(die 'HUURDER')

1. INTERPRETASIE

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

- 1.1 beteken die VERHUURDER: Davies Eric Kenneth
- 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 HUURBERSEEL die plaas beskryf as, hithestown Kd 180,3 gehou onder titelakte T.72998/1994..., en met oppervlakte van 198,44244.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.

8 K ť.,



DE AAR TRANSMISSIELYN		
PROJEK NR:	ITEM NR:	

OPSIE OM 'N SERWITUUT TE VERKRY

Ons, die ondergetekendes,

1.	Emthanjeni Munisipalitell hlerin verteenwoordig	deur Mnr. Isak Visser Munisipale besluurder
	Poskode7000	ID Nr:
	Tel Nr0536329100	Cel Nr:
	C/O: Ms C Klopper	.Epos cklopper@emthanjenl.co.za
2.		
	Adres:	
	Poskode	ID Nr
		Cel Nr
	Gelroud buile/binne GVG op: die GEREGISTREERDE EIENAAR/S (hiema ge	"Epos:
3.	Mulilo Hernubare Energie (Pty) Ltd Adres: Posbus 50, Kaapstad Internasio	nale Lughawe
		ID Nr.
	Tel Nr0219345268	Cel Nr:
	Getroud buite/binne GVG op:	"Epos:
	synde die KOPER/S : HUURDER/S (hiema gen	oem die koper/huurder") en
4.	Adres	
		Nr
		Epos;
	synde die VRUGGEBRUIKER/ERFGENAME (h	
Hierna	almal gesamenllik of afsonderlik genoem die "El	ENAAR" van die volgende eiendom/me, volgens litelaktes:
REGIS	TRASIE AFDELING: <u>9/180</u>	
PLAAS	LIKE OWERHEID:Philipstown RD	
GROO	TTE: 144.0820 H	

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teenwoordigheid van die ondergetekende getuies: AS GETUIES: 1. di dianne 2. Geregistreerde Wenaal of Gemagtigde Agent ∂v teenwoordigheid van die ondergetekende getules: AS GETUIES: 1. 2. Geregistreerde Elenaar of Gemagtigde Agent Geteken te KARPSTAD op hierdie 12 dag van JULIE 20 10 in die teenwoordigheid van die ondergelekende getuies: AS GETUIES: odtes 1. . . . 2. Kope//Huurder teenwoordigheld van die ondergetekende getuies: AS GETUIES 1. -----2. ------Vruggebruiker/Erfgenaam Die eienaar/s gee hiermee toestemming dat die Eienaar/s litte akte en verband besonderhede; vergoeding in hierdie opsie in die vlogende bank rekening betaal word: Tille Akte in bewaring by:Emthanjeni Munisipalitelt Rekening Houer: Emthanjeni Munisipaliteit..... Adres..... Voortrekkerstraat 45......De Aar..... Bank Rek. No.: ... 185 000 0081..... Verband Houer: Bank: ... ABSA De Aar..... Adres: Tak naam :De Aar..... Tel:..... .. 33 4308... Tak kode:.... Eienaar Belasting Besonderhede: MULILO Verteenwoordiger SARS (Belasting) No. ZELDA STRAUSS - 082 494 6313

- 3 -

SOLAR & WIND

AWS/w/lease : 06/04/09

MEMORANDUM VAN HUUROOREENKOMS

I

aangegaan en gesluit tussen

De Aar Stone Crushers Bk Bk 1998/012 728/23 (Registrasienommer:)

M Sr

(die 'VERHUURDER')

en

MULILO RENEWABLE ENERGY (EDMS) BPK

(Registrasienommer: 2008/010114/07)

(die 'HUURDER')

ML P J

1. INTERPRETASIE

1.1

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

- 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, <u>Philipstown Rd De Aar 180 fortion 1</u> gehou onder titelakte T.589.64. [.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.



DE AAR TRANSMISSIELYN	VIR WINDPLAAS	
PROJEK NR:	ITEM NR:	

OPSIE OM 'N SERWITUUT TE VERKRY

Ons, die ondergetekendes,

DIE DE PUT TRUST Registrasienommer: IT177/1997 hierin verteenwoordig deur

WILLEM STERRENBERG OLOFF MARAIS Adres: POSBUS 94, NUWEJAARSFONTEIN, DE AAR Poskode 7000 (D. 531015 5052 08 Tel Nr: Cel GETROUD BUITE GEMEENSKAP VAN GOEDERE en

GABRIEL VAN HEERDEN Adres: POSBUS 444, LEOSINGEL 31, DE AAR Poskode 7000 ID. 650725 5033 08 4 Tel Nr: Cel **ONGETROUD** en

HENDRIK DE JAGER Adres: POSBUS 87, DE PUT, DE AAR Poskode 7000 ID. 560727 6011 08 5 Tel Nr: 084 517 5554 Cel 084 517 5554 ONGETROUD

synde die GEREGISTREERDE EIENAAR (hierna genoem die "geregistreerde eienaar") en

Hierna almal gesamentlik of afsonderlik genoem die "TRUSTEES" van die volgende elendom, volgens titelaktes:

PLAAS NAAM: HARTEBEESTPLAAT NR, 135 REGISTRASIE AFDELING: BRITSTOWN PLAASLIKE OWERHEID; .PIXLEY KA SEME DISTRIKSMUNISIPALITEIT GROOTTE: 2539,8802 HEKTAAR TITELAKTE NR: Gehou kragtens Akte nommer: T16882/1998 gedateer 27 AUGUSTUS 1998 (hierna genoem die "eiendom") verleen hiermee aan

- 3 -Mer Geteken te ... 20 0 in die teenwoordigheid van die ondergetekende getules: AS GETUIES: toto there . 1. Juned 2. Geregistreerde Eienaar of Gemagligde Agent)e. 20.10 in die teenwoordigheid van die ondergetekende getuies: AS GETUIES: 1. 2. Geregistreerde Elenaar of Gemagtigde Agent le, 20.10 in die teenwoordigheid van die ondergetekende getules: AS GETUIES: 1. 2. Geregistfeerde Elenaar of Gemagtigde Agent Geteken te op hlerdie dag van in die teenwoordigheld van die ondergetekende getules: AS GETUIES: 1. 2. r/Huurder in die teenwoordigheid van die ondergetekende getules: AS GETUIES: 1. 2. Vruggebruiker/Erfgenaam Die eienaar/s gee hiermee toestemming dat die Elenaar/s title akte en verband besonderhede: vergoeding in hierdie opsie in die volgende bank rekening betaal word; Title Akte in bewaring by: **Rekening Houer: DE PUT TRUST** Naam..... Bank Rek. No.: 40 6863 2336 Adres..... Bank: ABSA BANK BEPERK Verband Houer; Tak naam : DE AAR Adres: Tak kode: 632005 Tel:..... Eienaar Belasting Besonderhede: MULILO Verteenwoordiger SARS (Belasting) No. 0128/063/06/2 ZELDA STRAUSS - 082 494 6313 SARS (BTW) No. 4930167319

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AWS/wwliease : 06/04/09

MEMORANDUM VAN HUUROOREENKOMS

1

aangegaan en gesluit tussen

Tropical Eden Trading 532 cc . 2005 147 43823 (Registrasienommer:)

(die 'VERHUURDER')

en

MULILO RENEWABLE ENERGY (EDMS) BPK

(Registrasienommer: 2008/010114/07)

(die 'HUURDER')

1. INTERPRETASIE

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

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CC

- 1.1 beteken die VERHUURDER:
- 201514子43823 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, Havouer Rd 31 O(Rencuining Externt) Hortebæst Hock gehou onder titelakte T. 190.18/2007, en met oppervlakte van 3427, 1900.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;

hading

- 1.4 beteken die AANVANGSDATUM die datum van ondertekening van hierdie Huurooreenkoms deur die party daartoe wat dit laaste onderteken;
- 1.5 beteken die OKKUPASIEDATUM die Aanvangsdatum;
- 1.6 beteken die AKTIVERINGSDATUM die eerste datum wat 'n turbine krag aan Eskom of 'n ander kommersiële gebruiker lewer, soos voorsiening voor gemaak word in klousule 5.4 hieronder.



environmental affairs

Department: Environmental Affairs REPUBLIC OF SOUTH AFRICA

Private Bag X 447 · PRETORIA · 0001 · Fedsure Bullding · 315 Pretorius Street · PRETORIA Tel (+ 27.12) 310 3911 · Fax (+ 27.12) 322 2682

NEAS Reference: DEA/EIA/0001774/2013, DEA/EIA/0001772/2013, DEA/EIA/0001773/2013 DEA Reference: 14/12/16/3/3/2/454, 14/12/16/3/3/2/455, 14/12/16/3/3/2/456 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 DU PLESSIS 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 Emthanjeni 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 panel 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:

- 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 i. 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. ij.
- 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 iii.
- Should a Water Use License be required, proof of application for a license needs to be iv.
- Information on services required on the site, e.g. sewage, refuse removal, water and electricity. submitted. Who will supply these services and has an agreement and confirmation of capacity been ۷. 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. vi. 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:

vii.

ix.

- Buildings, including accommodation; and
- 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
 - A shapefile of the preferred development layout/footprint must be submitted to this map. 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

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

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

- All recommendations and mitigation measures recorded in the EIR and the specialist studies i. conducted.
 - The final site layout map.
- ii. Measures as dictated by the final site layout map and micro-siting.
- An environmental sensitivity map indicating environmental sensitive areas and features äΪ. iv.
- identified during the EIA process. A map combining the final layout map superimposed (overlain) on the environmental sensitivity ٧.
- 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 vi. and ensure that the continuous monitoring and removal of alien species is undertaken.
- 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 vii. specialist familiar with the site and be implemented prior to commencement of the construction
 - 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 viii. of construction activities to reduce the amount of habitat converted at any one time and to speed up the recovery to natural habitats.
 - An open space management plan to be implemented during the construction and operation of ix.
 - A traffic management plan for the site access roads to ensure that no hazards would results from the increased truck traffic and that traffic flow would not be adversely impacted. This plan Χ. 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.
 - A transportation plan for the transport of panel components, main assembly cranes and other xi. large pieces of equipment.
 - 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 XĬÍ. migration of contaminated storm water or increased soil erosion. The plan must include the construction of appropriate design measures that allow surface and subsurface movement of water along drainage lines so as not to impede natural surface and subsurface flows. Drainage measures must promote the dissipation of storm water run-off.
 - An 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 xiii. risk of any potential erosion.
 - 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 XIV. measures to limit the possibility of oil and other toxic liquids from entering the soil or storm
 - Measures to protect hydrological features such as streams, rivers, pans, wetlands, dams and their catchments, and other environmental sensitive areas from construction impacts including XV. the direct or indirect spillage of pollutants.

The EIR must include a <u>cumulative assessment</u> 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

M solom

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: 1208,2018.

ſ	ÇC;	Ms Anga Yaphi	Northern Cape Department of Tel: 054 332 2885 Fa	ax: 054 331 1155	í
			Conservation	ax: 053 631 0105	
		Ms C Kloppers	Frithanieni Local Municipality	ax: 021 935 0505	
		Mr Warren Morse	Mulilo Renewable Energy (Pty) Ltd Tel: 021 934 5278		

EIA INFORMATION REQUIRED FOR SOLAR ENERGY FACILITIES <u>A.</u>

General site information 1.

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.

Site maps and GIS information 2.

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.

Regional map and GIS information 3.

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: <u>MashuduMa@daff.gov.za</u> Tel 012- 319 7619

Ms Thoko Buthelezi AgriLand Liaison office E-mail: <u>ThokoB@daff.gov.za</u> 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

<u>Postal Address:</u> 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 AGRICULTURE STUDY REQUIREMENTS

- Β.
 - 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 ٠
- Impact of the change of land use on the surrounding area ٠
- A shape file containing the soil forms and relevant attribute data as depicted on the map.

ASTRONOMY GEOGRAPHIC ADVANTAGE ACT, 2007 (ACT NO. 21 OF 2007) <u>Ç.</u>

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.

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.

9

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). For ease of reference, some documents have been appended to this Additional Information Required by DEA document in an Appendix. Reference is also made to documents included in Annexures. These documents are appended to the Final EIA Report.

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 an environmental impact assessment 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 and Final 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 (EMPr)	Summaries of the specialist assessment as well as all the proposed mitigation measures were included in Section 4 of the Draft and Final EIA Reports. The specialists reports are included in Annexure E and all mitigation measures were included in the Life-cycle EMP as included in Annexure D.
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).	 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: 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 Energy (Northern Cape): Regional Energy Director; South African National Roads Agency Limited (SANRAL); Transnet Ltd; SAHRA; and Square Kilometer Array (SKA).
		Request for comment on the Draft EIR has been made and all comments received

		and included in the Final FIA Depart (places and American D)
		are included in the Final EIA Report (please see Annexure B).
4	Please be advised that the contact person for renewable projects at the SKA office	Noted. Square Kilometre Array (SKA) has been included as a key stakeholder and
	is Dr Adrian Tiplady and he can be contacted on Tel: 011 442 2434 or Email:	has commented (refer to Annexure B).
	atiplady@ska.ac.za.	
5	You are also required to address all issues raised by organs of state and Interested	All issues raised to date were recorded in the Comments and Responses Reports
	and Affected Parties (I&APS) prior to the submission of the EIR to the Department.	as included in Annexure B of the Draft and Final EIA Reports.
6	Proof of correspondence with the various stakeholders must be included in the	Proof of correspondence with Authorities and I&APs were included in Annexure B
	Final EIR. Should you be unable to obtain comments, proof should be submitted to	of the Draft and Final EIA Reports.
	the Department of the attempts that were made to obtain comments.	
7	The EAP must, in order to give effect to Regulation 56(2), give registered interested	Letters requesting comments were sent to all registered I&APs. In addition the
	and affected parties access to, and an opportunity to comment on the report in	Final EIA Report was made available at the De Aar Public Library and on the
	writing within 21 days before submitting the final environmental impact assessment	Aurecon website for a period of 21 days.
	report to the Department.	' <i>'</i>
8	Please ensure that the Final EIR includes at least one legible A3 regional map of	Please refer to Annexure A for the following:
	the area and the site layout map to illustrate the turbines positions and associated	 Locality map;
	infrastructure. The maps must be of acceptable quality and as a minimum, have	Site layout
	the following attributes:	 Sensitivities map;
	Maps are relateable to one another	
	Cardinal points	Land cover map; and
	Co-ordinates	Preliminary design.
	Legible legends	
	 Indicate alternatives 	The vegetation types of the study area are described in the Botanical Impact
		Assessment summarised in Section 4.1.
	Latest land cover	
	 Vegetation types of the study area; and 	
	A3 size locality map	
9	In addition, the following additional information are required for the EIR:	
	I. The application form must be amended to include the correct listed	I) The revised application forms are included in Annexure A of the Final EIA
	activities. The EIA report must provide an assessment of the impacts and	Report. All impacts and mitigation measures have been considered.
	mitigation measures for each of the listed activities applied for.	II) Please see section 3.1.6 of the EIA Report. The future plans for the site and
	II. Details of the future plans for the site and infrastructure after	infrastructure are also included in Annexure G.
	decommissioning in 20-30 years and the possibility of upgrading the	III) The revised total footprints are indicated in Chapter 3 of the Final EIA Report
	proposed infrastructure to more advanced technologies	and in Annexure A.
	III. The total footprint of the proposed development should be indicated.	

		•	
IV. V.	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	 IV) The Department of Water Affairs requested that Water Use Applications only be submitted for renewable energy projects environmental process has been completed. Therefore the W Licence will be applied for as a separate process to the EIA. V) As indicated in Section 3.1.3 of the Final EIA Report, it is proprotable water be obtained from the Emthanjeni Municipality via a underground pipeline linking to the nearest municipal supply po would be stored onsite in a jo-jo tank. The Municipality still needs available capacity to facilitate this water requirement how Municipality previously confirmed in excess of 15 times the amount required for operations of a 75MW facility. Based on the allocation it can be confirmed that there will be no deficit in municipal supply, however the municipality would have to compreliminary design commences. 	a after the Vater Use posed that a proposed pint. Water to confirm vever, the nt of water times the his excess a terms of
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 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 	 VI) A final site layout map is provided in section 3 of the Final EIA rep Annexure A. The panel positions and foundation footprints would determined during the detailed design phase. A draf design was undertaken for the PV facility. Please see Ai for a map indicating the laydown areas and the intern There will be no permanent laydown areas. Please see Section 4.5 of the Final EIA report for maps wetland, drainage lines, rivers and streams. The sensitive areas are indicated in the sensitivity map in Annexure A. The location of the substation and transformers, cable r connection routes would be determined during the detail The cable routes will follow the internal roads and arrays possible. Trenches will be up to 1.5m deep and 0.7 However, all buildings would be restricted to the areas in 	d only be ft detailed nnexure A nal roads. indicating included in routes and ed design. s as far as 75m wide.

	 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 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) All existing infrastructure on the site, especially roads Building, including accommodation; and All "no-go" areas 	 by specialists as part of this EIA. Cut and fills are expected to be approximately 2,000m³ per substation, 600m³ per 100m of roads and 20m³ per 20m array. There will be no borrow pits. Information on spoil stockpiles and the management of these stockpiles will be defined in the method statements which the ECO will approve prior to construction commencing. Existing infrastructure is indicated in a map included in Annexure A. The proposed buildings, such as Inverter Pad Blocks, AC DC Station, Interconnection Cabin, Substations and O&M Building including waste septic tank would be restricted to the areas assessed in the EIA process. All no-go areas are indicated in the sensitivity map included in Annexure A.
VII. VIII. IX.	An environmental sensitivity map indicating environmental sensitive areas and features identified during the EIA process. A map combining the final layout map superimposed (overlain) on the environmental sensitivity map. 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.eshp; .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	 VII) An environmental sensitivity map is included in Chapter 5 in the Final EIA Report. It is also included in Annexure A. VIII) The final layout is included in Annexure A as well as Chapter 3 of the EIA report. IX) Please see the enclosed electronic copy of the Final EIA Report.

10	 The Environmental Management Programme (EMPr) to be submitted as part of the EIR must include the following: All recommendations and mitigation measures recorded in the EIR and the specialist studies conducted. The final site layout map. Measures as dictated by the final site layout map and micro-siting. An environmental sensitivity map indicating environmental sensitive areas and features identified during the EIA process 	 The LEMP, included in Annexure D of the Draft and Final EIA Reports includes the following: I) All recommendations and mitigation measures. II) Final site layout map (this is also included in Annexure A). Please note that the preliminary design is included but the final micro-siting would only be available after detailed designs have been undertaken. III) Final environmental sensitivity map included in Figure 1 of the LEMP and Annexure A.
10	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 LEMP included in Appeyure D of the Droft and Final FIA Departs includes the
	Physical address: Department of Environmental Affairs Fedsure Forum Building (corner of Pretorius and Lillian Ngoyi Streets) 4 th Floor South 315 Pretorius Street	
	The shape file must be submitted to: Postal Address: Department of Environmental Affairs Private Bag X447 Pretoria 0001	
	metadata must include a description of the base data used for digitizing. The shapefile must be submitted in a zilp file using the EIA application reference number as te title.	

V.	A map combining the final layout map superimposed (overlain) on the	IV) Final layout map superimposed on the environmental sensitivity map included
	environmental sensitivity map.	in Figure 1 of the LEMP and Annexure A. Please note that the preliminary
VI.	An alien invasive management plan to be implemented during	design is included but the final micro-siting would only be available after
	construction and operation of the facility. The plan must include mitigation	detailed designs have been undertaken.
	measures to reduce the invasion of alien species and ensure that the	V) Measures to manage alien invasive species are included in the LEMP.
	continuous monitoring and removal of alien species is undertaken.	V) A plant rescue and protection plan is included in the LEMP.
VII.	A plant rescue and protection plan which allows for the maximum	VII) A re-vegetation and habitat rehabilitation plan is included in the LEMP.
	transplant of conservation important species from areas to be	VIII) As indicated in the LEMP, the open space management plan will be
	transformed. This plan must be compiled after completion of construction	undertaken during the planning phase.
	activities to reduce the amount of habitat converted at any one time and to	IX) As indicated in the LEMP, the traffic management plan will be undertaken
\ ///I	speed up the recovery to natural habits.	during the planning phase.
VIII.	A re-vegetation and habitat rehabilitation plan to be implemented during	X) As indicated in the LEMP, the transportation plan will be undertaken during
	the construction and operation of the facility. Restoring must be undertaken as soon as possible after completion of construction activities	the planning phase.
	to reduce the amount of habitat converted at any one time and to speed	XI) The storm water management plan is included in Annexure C of the LEMP
	up the recovery to natural habitats.	and Annexure E of the EIA Report.
IX.	An open space management plan to be implemented during the	XII) The erosion management plan is included in Section 7 of the LEMP
177.	construction and operation of the facility.	XIII) Recommendations for monitoring systems to detect any leakage or spillage of
Х.	A traffic management plan for the site access roads to ensure that no	hazardous substances are included in the LEMP.
7.0	hazards would results from the increased truck traffic and that traffic flow	XIV)Measures to protect hydrological features are included in Annexure E of the
	would not be adversely impacted. This plan must include measures to	EIA report.
	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 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 spelling of pollutants. 	
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 Form 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 perod 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)	
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, 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 11, Section 38(8) of the National	Noted. Heritage and Palaeontology Impact Assessments were undertaken (as included in Annexure E). The Heritage and Palaeontological specialists confirmed that an application in terms of Chapter 11, section 38 of the NHRA would not be required.

	Heritage Resources Act, Act 25 of 1999.	
15	You are requested to submit two (2) electronic copies (CD/DVD and two(2) hard	Please find enclosed.
	copies of the Environmental Impact Report (EIR) to the Department as per	
	regulation 34(1)(b) of the EIA Regulation, 2010	
16	Please also find attached information that must be used in the preparation of the	Noted.
	environmental impact report. This will enable the department to speedily review	
	the EIR and make a decision on the application.	
17	You are hereby reminded of Section 24F of the National Environmental	Noted.
	Management Act, Act no 107 of 1998, as amended, that no activity may commence	
	prior to an environmental authorisation being granted by the Department.	
18	A. EIA INFORMATION REQUIRED FOR SOLAR ENERGY FACILITIES	The following information was included:
	1. General site information	For a description of the affected farm portions please see Section 3 of the
	The following general site information is required:	Final EIA Report.
	 Descriptions of all affected farm portions 	21 digit surveyor general codes were included in the Application Forms
	 21 digit surveyor general codes of all affected farm portions 	(Annexure A of the EIA Report).
	 Copies of deeds of all affected farm portions 	Copies of deeds of all affected farm portions are provided in Annexure A
	 Photos of areas that give a visual perspective of all parts of the 	of the Final EIA report.
	site	Please see Section 3 and 4 of the Final EIA Report for photographs of the
	 Photographas from sensitive visual receptors (tourism routes, 	site.
	tourism facilities, etc.)	The Visual Impact Assessment Report, including photographs from
	 Solar plant design specifications including: 	sensitive visual receptors, is summarised in Section 4.9 of the EIA Report
	Type of technology	and the full specialist Report is included in Annexure E.
	Structure height	Solar plant design specifications are included in Section 3 of the Final EIA
	\succ Surface area to be covered (including associated	report.
	infrastructure such as roads)	Generation capacity of the two layout alternatives are described in
	Structure orientation	Section 3 of the Final EIA report.
	Laydown area dimensions (construction period and	
	thereafter)	
	Generation capacity	
	Generation capacity of the facility as a whole at deliver 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.	
19.	 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 stasus 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 	 All of the shapefiles will be enclosed in the Final EIR. Please note that some of the information requested would only be available after detailed designs have been undertaken. The land use map is included in Annexure A. • Water courses are indicated and discussed in Section 4.5 of the EIA Report.
	 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) 	 Please see the enclosed shapefiles for information on ridgelines and boreholes. For the Agricultural Assessment, please see Annexure E and Section 4.4 of
	 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 	 the Final EIA Report. The environmental sensitivity map includes the buffer zones, which have been recommended by specialists and authorities. A slope analysis has been undertaken and the development area is relatively flat. The site does contain a number of small rocky outcrops and ridges however only the flat areas would be developed. A final site layout map is included in Section 3 of the Final EIA report and

Indicate isolated residential, tourism facilities on or withing 1km	Annexure A.
of the site	
 A slope analysis map/layer that include the following slope ranges: 	
Less than 8% slope Detwoor 8% and 12% slope	
Between 8% and 12% slope Detween 12% and 14% slope	
Between 12% and 14% slope Steeper then 18% alone	
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 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	
With the above information authorities will be able to assess the strategic and	
site impacts of applications.	

20.	3.		GIS information is included on a CD submitted with this Final EIA Report. The
		The regional map and GIS information should include at least the	regional map is included in Annexure A.
		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 ereas 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	
	5.	rivers and streams Important stakeholders	Noted. These departments have been included as key stakeholders. Requests for
1	5.	Amongst other important stakeholders, comments from the National	comment have been made.
		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:	
		° °	

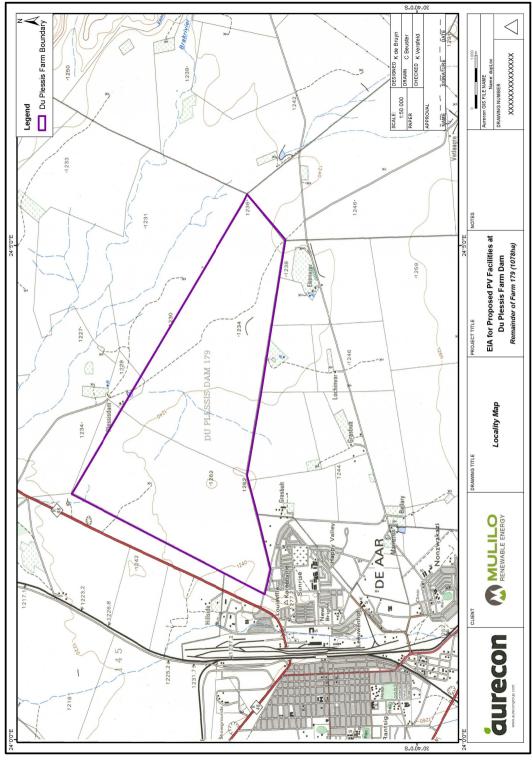
ADDITIONAL INFORMATION REQUIRED BY THE DEA

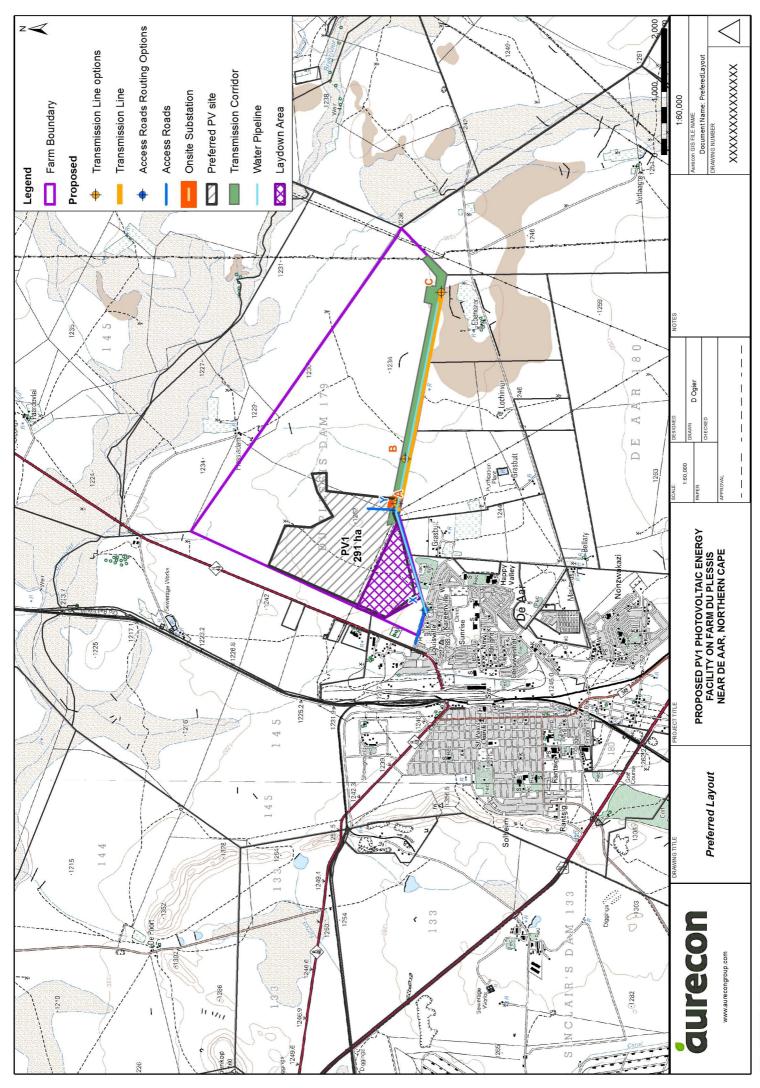
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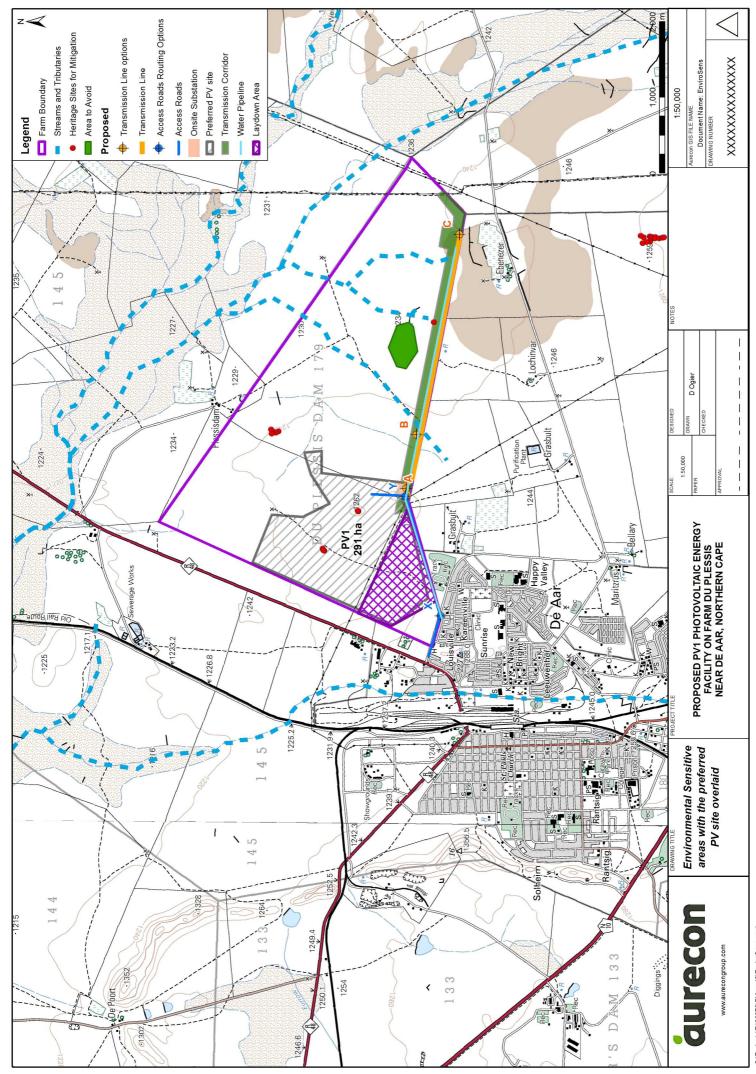
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2000	
Tel: 011 516 7233	
Fax: 086 661 4064	
John.geeringh@eskom.co.za	
C. AGRICULTURE STUDY REQUIREMENTS	Please see Annexure E for the Agricultural Impact Assessment.
	Please see Annexule E for the Agricultural impact Assessment.
 Detailed soil assessment 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:	
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	
 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. 	
E. <u>Astronomy geographic advantage act, 2007 (Act No. 21 of 2007)</u> 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. 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.	The proposed development is not situated within a declared astronomy advantage area (refer to SKA's comment in Annexure B).

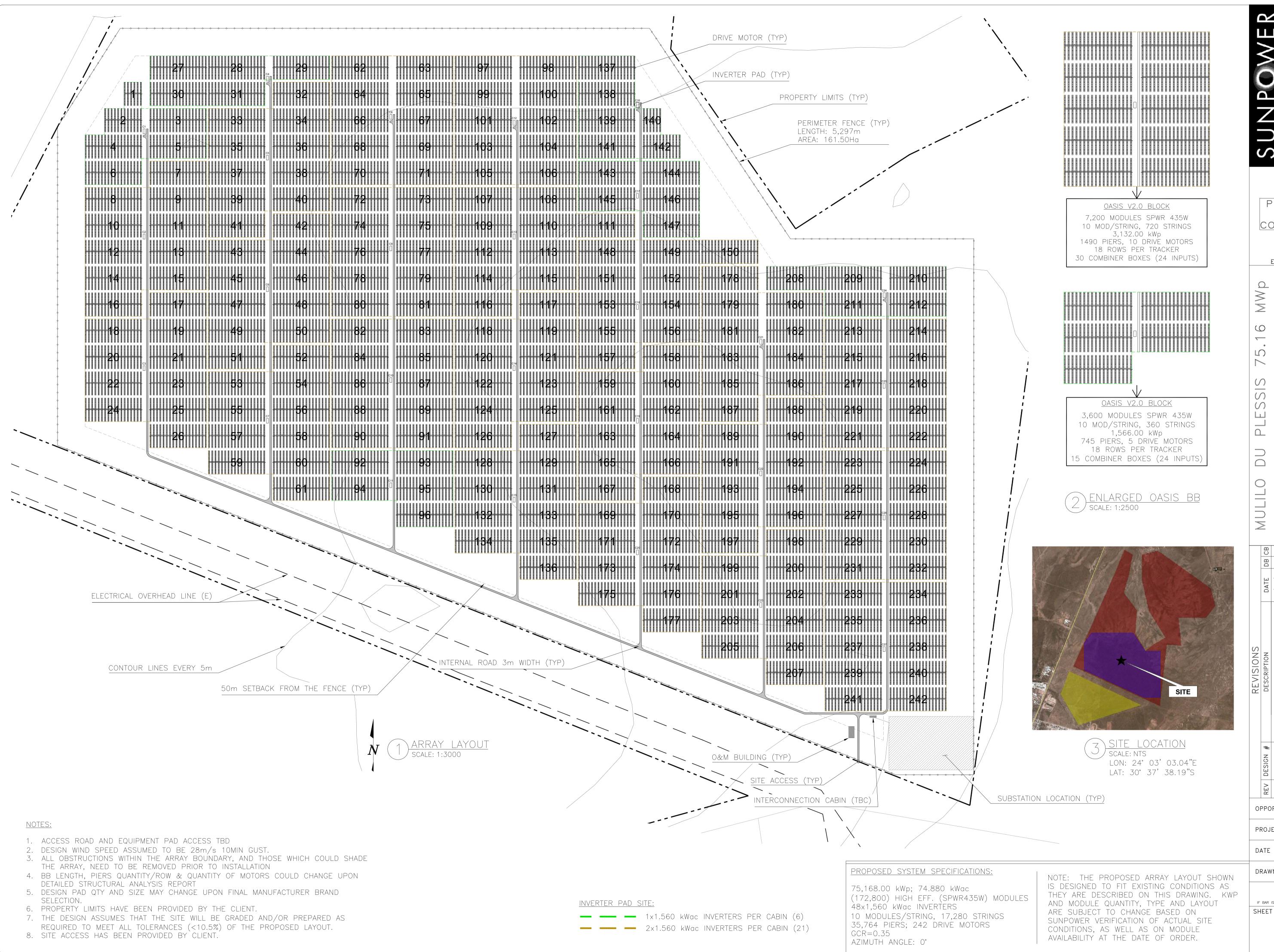




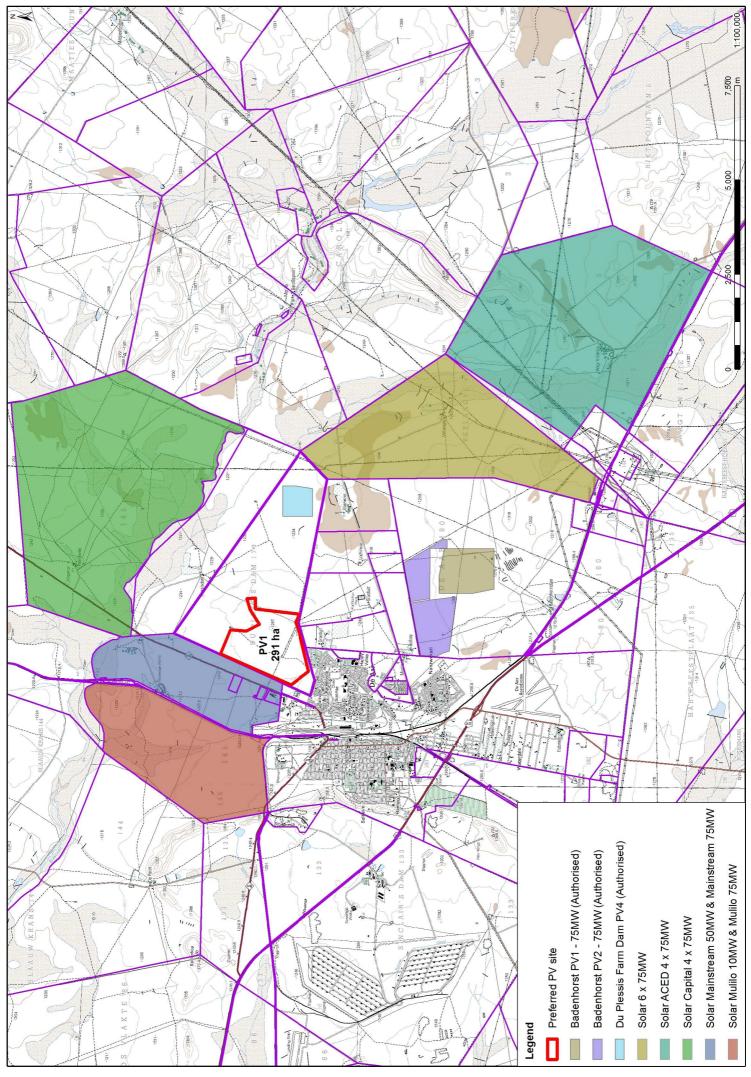
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