

SUMMARY OF THE PUBLIC PARTICIPATION PROCESS

This section of the report is included in compliance with the Regulations. Public participation is an integral part of the EIA process, and affords potentially interested and potentially affected parties (I&APs) an opportunity to participate in the EIA process, or to comment on any aspect of the development proposals.

Other relevant considerations regarding the public participation process being undertaken for this project are that:

- The public participation process being undertaken for this project complies with the requirements of the Regulations.
- The description of the public participation process included in sections below itemises the steps and actions undertaken.

Adverts were placed in the following newspaper:

- Gemsbok on the **22 June 2018**.

The notice boards were placed on site from **28 June 2018**.

Twelve (12) notices were sent via registered mail on **25 June 2018** owners and occupiers of land adjacent to the site where the activity is undertaken. The notice requested them to register as Interested and Affective Parties (I&APs) and invited them to provide written comments together with the above reference number, their name, contact details and an indication of any direct business, financial, personal or other interest which they have in the application to the contact person indicated below within 30 days from the date of this notice. The notice also requested the owner to inform all persons residing on the property.

The Draft Scoping Report **was sent** to the following key Departments ON THE **27TH of July 2018**:

1. Birdlife South Africa
2. Eskom
3. South African Astronomical Observatory + Southern African Large Telescope (SALT)
4. South African Radio Astronomy Observatory (SARAO) + Square Kilometre Array (SKA) + MeerKAT
5. Kai !Garib Local Municipality
6. ZF Mgcawu District Municipality
7. Department Water and Sanitation: NC
8. Department of Energy (Northern Cape)
9. National Energy Regulator of South Africa (NERSA)
10. Department of Roads & Public Works (Northern Cape)
11. Department of Rural Development and Land Reform - Northern Cape PSSC
12. South African Civil Aviation Authority
13. Transnet Freight Rail
14. Northern Cape Department of Agriculture, Land Reform and Rural Development
15. Northern Cape Department of Environment and Nature Conservation
16. Ngwao-Boswa Ya Kapa Bokone (Northern Cape Provincial Heritage Resources Authority)
17. The South African Heritage Resources Agency
18. The Department of Environmental Affairs: Directorate (DECIDING AUTHORITY)

The draft EIR will also be sent to the above key departments.

- 1. National Department of Agriculture, Forestry and Fisheries**
- 2. Birdlife South Africa**
- 3. Eskom**
- 4. South African Astronomical Observatory + Southern African Large Telescope (SALT)**
- 5. South African Radio Astronomy Observatory (SARAO) + Square Kilometre Array (SKA) + MeerKAT**
- 6. Kai !Garib Local Municipality**
- 7. ZF Mgcawu District Municipality**
- 8. Department Water and Sanitation: NC**
- 9. Department of Energy (Northern Cape)**
- 10. National Energy Regulator of South Africa (NERSA)**
- 11. Department of Roads & Public Works (Northern Cape)**
- 12. Department of Rural Development and Land Reform - Northern Cape PSSC**
- 13. South African Civil Aviation Authority**
- 14. Transnet Freight Rail**
- 15. Northern Cape Department of Agriculture, Land Reform and Rural Development**
- 16. Northern Cape Department of Environment and Nature Conservation**
- 17. Ngwao-Boswa Ya Kapa Bokone (Northern Cape Provincial Heritage Resources Authority)**
- 18. The South African Heritage Resources Agency**
- 19. The South African National Roads Agency (SANRAL)**
- 20. The Department of Environmental Affairs: Directorate Biodiversity and Conservation**
- 21. The Department of Environmental Affairs: Directorate (DECIDING AUTHORITY)**

STEPS TAKEN TO NOTIFY POTENTIALLY INTERESTED AND AFFECTED PARTIES

This section of the report is included in compliance with the Regulations.

Potential I&APs were notified about the project by:

1. Fixing a notice board at the boundary of the site in compliance with the Regulations. All relevant and required information was displayed on the notice board. The notice board contained the following minimum information (Size of Board 70 x 50 cm):
 - how to register as an interested and affected party;
 - the manner in which representations on the application may be made;
 - where further information on the application or activity can be obtained; and
 - the contact details of the person(s) to whom representations may be made.The fact that the public participation process had commenced, that a basic assessment process will be followed, the dates within which they can register or send comments and what the proposed activity constituted, was displayed.

Photos of the notice board are included. The notice board was placed on site on **28 June 2018**.
2. Giving written notice to owners and occupiers of land adjacent to the site where the activity is to be undertaken, the municipal councillor of the ward within which the site is located, the local municipality and those organs of state having jurisdiction in respect of any aspect of the project as required by the Regulations. Twelve (12) notices were sent via registered mail on **25 June 2018** owners and occupiers of land adjacent to the site where the activity is undertaken.
3. Placing an advertisement in a local newspaper in compliance with the Regulations. An advert was placed in the Gemsbok on the **22 June 2018** notifying the public of the development and inviting them to register as Interested and Affected Parties within 30 days.
4. Lists of Identified and Registered Interested and Affected Parties
This section of the report is included in compliance with the Regulations. This list includes the potential as well as the registered Interested and Affected Parties. The list of parties who were identified as potential I&APs as per the requirements of the Regulations and the list of parties who requested registration as an I&AP, and who are registered on the I&AP database for the project as required in terms of the Regulations were included. A Comments and Response Report from registered I&AP's will be included.
5. Workshop with Key Role players
On the **3rd of August 2018** a newspaper advert was placed in Die Gemsbok inviting members of the public to attend a public meeting. A workshop was held on the **23rd of August 2018** at the Kenhardt Hotel.

**NOTICE SENT TO NEIGHBOURS
PUBLIC PARTICIPATION PROCESS
PROPOSED 300MW PHOTOVOLTAIC ELECTRICITY GENERATION FACILITY & POWERLINE ON
PORTIONS 6 & 3 OF FARM 187, KENHARDT.**

Notice is given of the public participation process commenced by Solar Energy Land (Pty) Ltd for the proposed development of a 300MW photovoltaic energy generation facility on 600 ha and a 132kV powerline of approximately 7 kilometres to feed into the existing Aries sub-station.

Location: Portion 6 of Farm 187, Olyvenkolk (PV facility and powerline) and Portion 3 of Farm 187, Olyvenkolk (powerline) near Kenhardt.

Listed Activities:

Activity No(s):	Provide the relevant Listed Activities as set out in Listing Notice 1 (GN No. R. 983 as amended by GN 327)
11(i)	The development of facilities or infrastructure for the transmission and distribution of electricity (i) outside urban areas or industrial complexes with a capacity of more than 33 but less than 275 kilovolts.
19(i)	The infilling or depositing of any material of more than 5 cubic metres into, or the dredging, excavation, removal or moving of soil, sand, shells, shell grit, pebbles or rock of more than 5 cubic metres from- (i) a watercourse.
28(ii)	Residential, mixed, retail, commercial, industrial or institutional developments where such land was used for agriculture or afforestation on or after 01 April 1998 and where such development: (ii) will occur outside an urban area, where the total land to be developed is bigger than 1 hectare; excluding where such land has already been developed for residential, mixed, retail, commercial, industrial or institutional purposes.
Activity No(s):	Provide the relevant Listed Activities as set out in Listing Notice 2 (GN No. R. 984 as amended by GN 325)
1	The development of facilities or infrastructure for the generation of electricity from a renewable resource where the electricity output is 20 megawatts or more, excluding where such development of facilities or infrastructure is for photovoltaic installations and occurs within an urban area.
15	The clearance of an area of 20 hectares or more of indigenous vegetation
Activity No(s):	Provide the relevant Listed Activities as set out in Listing Notice 3 (GN No. R. 985 as amended by GN 324)
14	The development of - (ii) infrastructure or structures with a physical footprint of 10 square metres or more; (a) within a watercourse; (b) in front of a development setback; or (c) if no development setback has been adopted, within 32 metres of a watercourse, measured from the edge of a watercourse;

Exemption: No application for any exemption is sought.

Opportunity to participate: Interested and Affected Parties are invited to register interest within the process, or provide written comments to Eco Impact within 30 days of this notice. The project title, your full name, contact details, plus indication of any direct business, financial, personal or other interest you may have in this application must please be provided and fully described.

Contact: Jessica Hansen

PO Box 45070, Claremont, 7735

Fax: 021 671 1660/9976

Email: admin@ecoimpact.co.za

Date: 25 June 2018

**NOTICE ERECTED ON SITE
PUBLIC PARTICIPATION PROCESS
PROPOSED 300MW PHOTOVOLTAIC ELECTRICITY GENERATION FACILITY & POWERLINE
ON PORTIONS 6 & 3 OF FARM 187, KENHARDT**

Notice is given of the public participation process commenced by Solar Energy Land (Pty) Ltd for the proposed development of a 300MW photovoltaic energy generation facility on 600 ha and a 132kV powerline of approximately 7 kilometres to feed into the existing Aries sub-station.

Location: Portion 6 of Farm 187, Olyvenkolk (PV facility and powerline) and Portion 3 of Farm 187, Olyvenkolk (powerline) near Kenhardt.

Listed Activities:

Activity No(s):	Provide the relevant Listed Activities as set out in Listing Notice 1 (GN No. R. 983 as amended by GN 327)
11(i)	The development of facilities or infrastructure for the transmission and distribution of electricity (i) outside urban areas or industrial complexes with a capacity of more than 33 but less than 275 kilovolts.
19(i)	The infilling or depositing of any material of more than 5 cubic metres into, or the dredging, excavation, removal or moving of soil, sand, shells, shell grit, pebbles or rock of more than 5 cubic metres from- (i) a watercourse.
28(ii)	Residential, mixed, retail, commercial, industrial or institutional developments where such land was used for agriculture or afforestation on or after 01 April 1998 and where such development: (ii) will occur outside an urban area, where the total land to be developed is bigger than 1 hectare; excluding where such land has already been developed for residential, mixed, retail, commercial, industrial or institutional purposes.
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Exemption: No application for any exemption is sought.

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Contact: Jessica Hansen

PO Box 45070, Claremont, 7735

Fax: 021 671 1660/9976

Email: admin@ecoimpact.co.za

Date: 28 June 2018

NOTICE PUBLISHED IN NEWSPAPER-REGISTRATION

**PUBLIC PARTICIPATION PROCESS
PROPOSED 300MW PHOTOVOLTAIC ELECTRICITY GENERATION FACILITY
& POWERLINE ON PORTIONS 6 & 3 OF FARM 187, KENHARDT.**

Notice is given of the public participation process commenced by Solar Energy Land (Pty) Ltd. for the development of a 300MW photovoltaic electricity generation facility on 600ha and a 132kw powerline of 7 kilometres.

Location: Portion 6 of Farm 187, Olyvenkolk (PV facility and powerline) and Portion 3 of Farm 187, Olyvenkolk (powerline) near Kenhardt.

Listed Activities: GNR 327 Listing Notice 1 - Listed Activities 11(i), 19, 28 (ii), GNR 325 Listing Notice 2 – Listed Activities 1 & 15 & GNR 324 Listing Notice 3 – Listed Activity 14.

Exemption: No application for any exemption is sought.

Opportunity to participate: Interested and Affected Parties are invited to register interest within the process, or provide written comments to Eco Impact within 30 days of this notice. The project title, your full name, contact details, plus indication of any direct business, financial, personal or other interest you may have in this application must please be provided and fully described.

Contact: Jessica Hansen
PO Box 45070, Claremont, 7735
Fax: 021 671 9976
Tel: 021 671 1660
Email: admin@ecoimpact.co.za



NOTICE PUBLISHED IN NEWSPAPER-PUBLIC MEETING

INVITATION TO ATTEND PUBLIC MEETING

**PROPOSED 300 MW and 400MW PHOTOVOLTAIC ELECTRICITY GENERATION FACILITIES & POWERLINE ON PORTIONS 6, 7
& 3 OF FARM 187, KENHARDT.**

Notice is given that a public meeting for the development of a 300MW and a 400MW photovoltaic electricity generation facility on 600ha and 800ha respectively.

Location: Portion 7 and 6 of Farm 187, Olyvenkolk (PV facility and powerline) and Portion 3 of Farm 187, Olyvenkolk (powerline) near Kenhardt.

A PUBLIC MEETING WILL BE HELD ON THE 23rd OF AUGUST 2018 FROM 4-6 PM AT THE KENHARDT HOTEL.

Contact: Jessica Hansen
PO Box 45070, Claremont, 7735
Fax: 021 671 9976
Tel: 021 671 1660
Email: admin@ecoimpact.co.za



PROOF OF POSTAGE – NOTICE TO NEIGHBOURS

MAILING LIST: NOTICES TO NEIGHBOURS PORTION 6 & 3 AND PORTION 7 & 3 OF FARM 187

Mr & Mrs J Oberholzer
PO Box 311
Kenhardt
8900

REGISTERED LETTER
(with a domestic insurance option)
ShareCall 0800 111 502 www.sago.co.za
RC283244675ZA
CUSTOMER COPY 301028R

Texforce Pty Ltd
Mr Geof Hainebach
PO Box 26160
Houtbay
Cape Town
7872

REGISTERED LETTER
(with a domestic insurance option)
ShareCall 0800 111 502 www.sago.co.za
RC253610786ZA
CUSTOMER COPY 301028R

Mr Danie Van Wyk
PO Box 81
Kenhardt
8900

REGISTERED LETTER
(with a domestic insurance option)
ShareCall 0800 111 502 www.sago.co.za
RC283244689ZA
CUSTOMER COPY 301028R

Aurora Power Solutions
Nautica Building: Water Club Complex
Beach Road
Moullie Point
Cape Town
8001

REGISTERED LETTER
(with a domestic insurance option)
ShareCall 0800 111 502 www.sago.co.za
RC253610798ZA
CUSTOMER COPY 301028R

Mr A Jordaan
PO Box 81
Kenhardt
8900

REGISTERED LETTER
(with a domestic insurance option)
ShareCall 0800 111 502 www.sago.co.za
RC283244692ZA
CUSTOMER COPY 301028R

Mr Michael van Niekerk
Posbus 69
Kenhardt
8900

REGISTERED LETTER
(with a domestic insurance option)
ShareCall 0800 111 502 www.sago.co.za
RC253610809ZA
CUSTOMER COPY 301028R

Mr AG Le Roux
76 Wildebeest Street
Middelpos
Upington

REGISTERED LETTER
(with a domestic insurance option)
ShareCall 0800 111 502 www.sago.co.za
RC253610769ZA
CUSTOMER COPY 301028R

Mr Chris Jordaan
Grootriet Farm
PO Box 41
Kenhardt
8900

REGISTERED LETTER
(with a domestic insurance option)
ShareCall 0800 111 502 www.sago.co.za
RC253610755ZA
CUSTOMER COPY 301028R

Mr Piet de Vos
PO Box 350
Keimoes
8860

REGISTERED LETTER
(with a domestic insurance option)
ShareCall 0800 111 502 www.sago.co.za
RC253610741ZA
CUSTOMER COPY 301028R

Mr A Husselman
Rietfontein
PO Box 72
Louisvale
8809

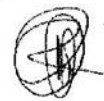
REGISTERED LETTER
(with a domestic insurance option)
ShareCall 0800 111 502 www.sago.co.za
RC253610738ZA
CUSTOMER COPY 301028R

Mr GF Husselmann
Rietfontein
PO Box 72
Louisvale
8809

REGISTERED LETTER
(with a domestic insurance option)
ShareCall 0800 111 502 www.sago.co.za
RC253610724ZA
CUSTOMER COPY 301028R

Mr Chris Fourie
PO Box 1152
Prieska
8940

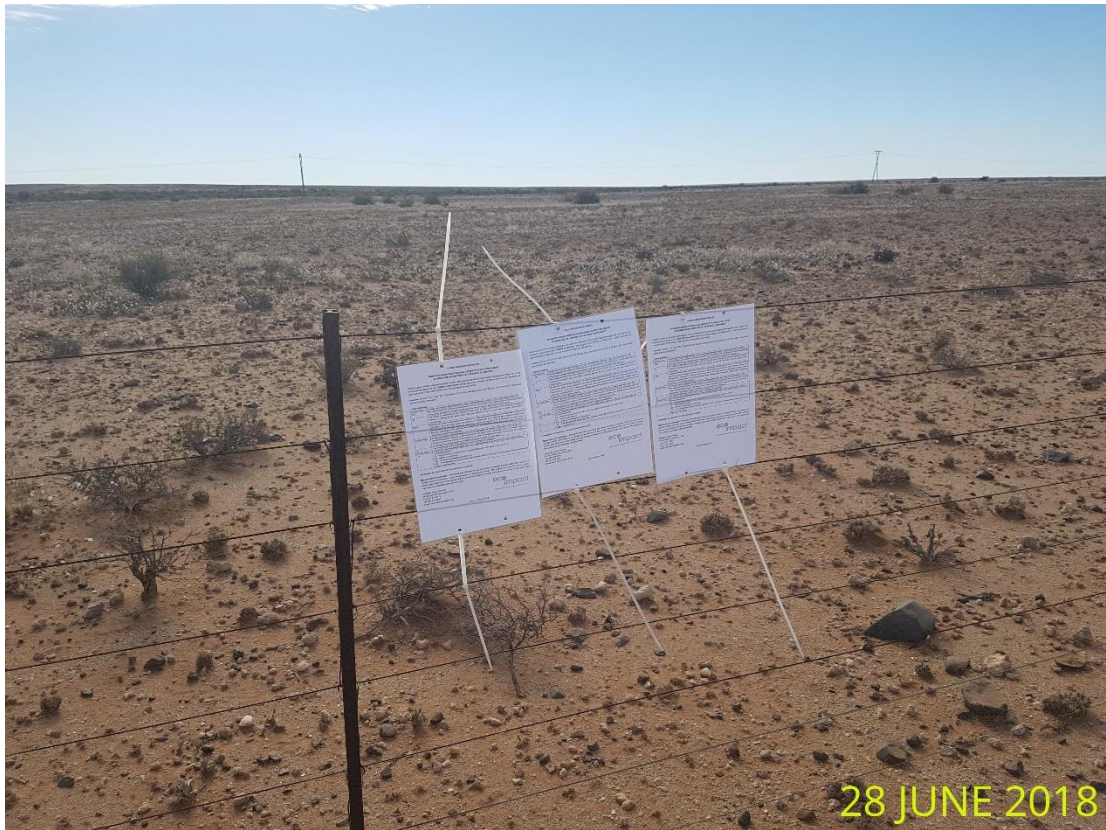
REGISTERED LETTER
(with a domestic insurance option)
ShareCall 0800 111 502 www.sago.co.za
RC253610772ZA
CUSTOMER COPY 301028R



Eco Impact
P.O. Box 45070
CLAREMONT
7735

WHEATSTOCK 12

PROOF OF NOTICES ERECTED ON SITE



COPY OF NOTICE IN NEWSPAPER-PUBLIC MEETING

GORDONIA
 08481 1144 / 08481 1144 / 08481 1144
 08481 1144 / 08481 1144 / 08481 1144

APLEWERINGS BODE

- Kook & rysele
- Hardeware
- Bedek en dekwater

Bestel u CV en 10 week rysele na
 08481 1144 / 08481 1144 / 08481 1144
 Bestel datum: 18 Augustus 2018

VAKATURES

PROF MAMA JUMA
 Die is die enigste Afrikaanse dokter wat 'n mediese graad in Afrika het.

Diagnose, behandeling en preventie van alle siektes. Die enigste Afrikaanse dokter wat 'n mediese graad in Afrika het.

08481 1144 / 08481 1144 / 08481 1144

HERBALISTS KRUIDOKTERS HERBALISTS

BEER JOY
 Die enigste Afrikaanse dokter wat 'n mediese graad in Afrika het.

WILSON
 Die enigste Afrikaanse dokter wat 'n mediese graad in Afrika het.

WILSON
 Die enigste Afrikaanse dokter wat 'n mediese graad in Afrika het.

100% MONEY SPILL

Die enigste Afrikaanse dokter wat 'n mediese graad in Afrika het.

08481 1144 / 08481 1144 / 08481 1144

VAKLEERLING

Bevestigde 100% suksesvolle metode vir die verwerping van alle siektes.

08481 1144 / 08481 1144 / 08481 1144

INVITATION TO ATTEND PUBLIC MEETING

PROPOSED 500 MW and 500 MW PHOTONIC SOLAR ELECTRICITY GENERATION FACILITIES AND POWERLINE ON PORTGALIA, T & S OF FORTH BRIDGE, KIMBERLEY.

08481 1144 / 08481 1144 / 08481 1144

NAMAKWALAND FINANSIELE DIENSTE
 BK 200502086/2012

KANTOOR BESTUURDER

vir die kantoorbestuurder te Springbok

08481 1144 / 08481 1144 / 08481 1144

PROF DAN

Die enigste Afrikaanse dokter wat 'n mediese graad in Afrika het.

08481 1144 / 08481 1144 / 08481 1144

VISSER DREIF

Die enigste Afrikaanse dokter wat 'n mediese graad in Afrika het.

08481 1144 / 08481 1144 / 08481 1144

MAKROBIOOT BOMBOEN

Die enigste Afrikaanse dokter wat 'n mediese graad in Afrika het.

08481 1144 / 08481 1144 / 08481 1144

KARSTEN
 KARSTEN DROOP (KARSTEN BOMBOEN)

Die Karsten Droop is 'n unieke en natuurlike manier om die siektes te behandel.

08481 1144 / 08481 1144 / 08481 1144

PROF DR. M. J. J. J.

Die enigste Afrikaanse dokter wat 'n mediese graad in Afrika het.

08481 1144 / 08481 1144 / 08481 1144

TOEGANGS AANBOOD

Die enigste Afrikaanse dokter wat 'n mediese graad in Afrika het.

08481 1144 / 08481 1144 / 08481 1144

MUNISIPALITEIT DORIS MUNICIPALITY

WATERSKEMING EN WATERSKEMING

Die enigste Afrikaanse dokter wat 'n mediese graad in Afrika het.

08481 1144 / 08481 1144 / 08481 1144

GRIP DROOP

Die enigste Afrikaanse dokter wat 'n mediese graad in Afrika het.

08481 1144 / 08481 1144 / 08481 1144

KWALITEITS TOEGHOORER STRAUSSBURG OMGEWING (PAC-MEDI)

Die enigste Afrikaanse dokter wat 'n mediese graad in Afrika het.

08481 1144 / 08481 1144 / 08481 1144

PROF MAMA JUMA

Die enigste Afrikaanse dokter wat 'n mediese graad in Afrika het.

08481 1144 / 08481 1144 / 08481 1144

100% MESSIE

Die enigste Afrikaanse dokter wat 'n mediese graad in Afrika het.

08481 1144 / 08481 1144 / 08481 1144

NOTICE & CALL FOR COMMENTS OF BIOMONITORING MANAGEMENT PROGRAMME UPDATE

Die enigste Afrikaanse dokter wat 'n mediese graad in Afrika het.

08481 1144 / 08481 1144 / 08481 1144

ORFFER & VAN DER MERWE HUMAN RESOURCE PRACTITIONERS

Die enigste Afrikaanse dokter wat 'n mediese graad in Afrika het.

08481 1144 / 08481 1144 / 08481 1144

MAMA AFRICA AND PAPPA

Die enigste Afrikaanse dokter wat 'n mediese graad in Afrika het.

08481 1144 / 08481 1144 / 08481 1144

• GORDONIA •
SONKRAG - STAAL - KOÖPERASIE - KOTZE TRAILERS
 Fabriekstraat 39 | Upington 054 332 3061 | 054 331 2778

AFLEWERINGS BODE

- Kode 8 rybewys
- Hardwerkend
- Eerlik en betroubaar

Stuur u CV en ID asook rybewys na
 annemarie@gordoniastaal.co.za
 Sluitingsdatum: 16 Augustus 2018

North Western Motor Company Upington wag op aansoeke vir 'n

VAKLEERLING

Benodig N2 (Matriek of Kollege)
 Met die volgende vakke:
 Wiskunde / Mathematics
 Fisiese Wetenskap / Physical Science
 (Engineering)
 Motor Mech / Diesel Trade Theory
 Tegnieke Tekeninge / Engineering Drawing
 Cv's kan by Mev. Pretorius by North Western
 Motor Company by 58 Scottstraat in Upington
 ingehandig word, of stuur 'n epos na
 admin@northwestern.co.za



NORTH WESTERN
MOTOR COMPANY
 UPINGTON

V
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PROF MAMA JUMA
 Stop jou geld probleem-
 ding. 100% dieselfde dag
 resultate. Geld in rekening en
 huis in 30min.
 Towerbeursie, Towerstaf vir
 geld, dubbel salaris, geluk-
 kige Lottonommers, Stop
 vermeukery, Bring verlore
 liefde terug. Enige ongeluk,
 liefdesvenoot net lief vir
 jou. Vergroting, sterk ereksie,
 huweliksprobleme, huis-
 skoonmaak, werkbevonde-
 ring. Los alle swangerskap-
 probleme op
Bel 071 709 3676
UPINGTON

INVITATION TO ATTEND PUBLIC MEETING
 PROPOSED 300 MW and 400MW PHOTOVOL-
 TAIC ELECTRICITY GENERATION FACILITIES &
 POWERLINE ON PORTIONS 6, 7 & 3 OF FARM 187,
 KENHARDT.

Notice is given that a public meeting for the develop-
 ment of a 300MW and a 400MW photovoltaic electricity
 generation facility on 600ha and 800ha respectively.
 Location: Portion 7 and 6 of Farm 187, Olyvenkolk
 (PV facility and powerline) and Portion 3 of Farm 187,
 Olyvenkolk (powerline) near Kenhardt.
A PUBLIC MEETING WILL BE HELD ON THE 23RD
OF AUGUST 2018 FROM 4-6 PM AT THE KEN-
HARDT HOTEL.
 Contact: Jessica Hansen
 PO Box 45070, Claremont, 7735
 Fax: 021 671 9976
 Tel: 021 671 1660
 Email: admin@ecoimpact.co.za



HERBALISTS KRUIDOKTERS HERBALISTS

SISTER JOY
 • Bring terug geluk
 in die familie
 • Los finansiële
 probleme op
 • Werk wat ander
 dokters nog nie
 klaar gemaak het nie
 • Penis vergroting &
 mankrag
 • Lotto nommers
 071 831 8698

Mama Sarah
van Sudan
 Vir alle probleme:
 • Manlike krag vir Mans
 • Vroulike menstruasie
 wat lank vat
 • Finansiële probleme
 • Werkbevordering en
 vele meer
Skakel
073 435 3515


Moet nie tyd mors!!
Skakel
Prof Koba nou
078 0157 674
*Kry tot R5 miljoen in
 jou rekening of in jou huis.*

NAMAKWALAND
FINANSIELE DIENSTE
 BK 2003/039498/23

KANTOOR BESTUURDER

vir mikroleningskantoor te Springbok

Vereistes:

- Graad 12 geslaag
- Rekenaarvaardig
- Vorige toepaslike werksondervinding met kontakbesonder-
 hede van werkgewer(s)
- Eie vervoer of toegang tot vervoer
- Geen kriminele rekord nie
- Salaris onderhandelbaar - noem verwagte salaris
 met aansoek

100% MONEY SPELL.
 The quickest money
 for those who need
 money same day.
 • MONEY IN ACC.
 • SHORT BOYS,
 • CLEAN YOUR
 DEBTS
 • MAGIC STICK
 TO PUT MONEY
 IN HOUSE FOR
 30MINS
 • MAGIC WALLET
 • MAGIC RING
 • DOUBLE YOUR
 SALARY

Contact mama Zolo
 for immediate help
 ON 061 335 1512

PROF DAN

- Help wen hofsake
- Finansiële probleme
- Gebroke huwelike
- Onvoltooides werke
- Sit geld in rekening
- Gevaarlike swanger-
 skap
- Penis vergroting

Selfde dag resultate
 Alle gesteele goed kar
 terug gekry word



Betaal na werk voltooi is
 Skakel 082 256 0486

TABLE 1: LIST OF KEY DEPARTMENTS

No.	STAKEHOLDER	CONTACT PERSON	TELEPHONE	FAX NUMBER	EMAIL ADDRESS
1	National Department of Agriculture, Forestry and Fisheries Private Bag X 120 Pretoria 0001 Attention: Delegate of the Minister	Ms Mashudu Marubini Delegate of the Minister (Act 70 of 1970) Ms Thoko Buthelezi Agriland Liaison office	012- 319 7619 012-319 7634	Not available	MashuduMa@daff.gov.za ThokoB@daff.gov.za
2	Birdlife South Africa Private Bag X16 Pinegowrie 2123	The Chairperson	011 789 1122	011 789 5188	info@birdlife.org.za conservation@birdlife.org.za
3	Eskom Eskom Transmission Services: Land and Rights P.O. Box 1091 Johannesburg 2000	The Manager / Chairperson Mr John Geeringh	011 800 8111 011 516 7233	011 800 4299 086 661 4064	CSONline@eskom.co.za John.geeringh@eskorn.co.za
4	South African Astronomical Observatory (SAAO) + Southern African Large Telescope (SALT) P.O. Box 9 Observatory Cape Town 7935	Director	021 447 3639	021 447 3639	salt@salt.ac.za enquiries@saa.ac.za
5	South African Radio Astronomy Observatory (SARAO) + Square Kilometre Array (SKA) 17 Baker Street, Rosebank, Johannesburg, 2196	Musa Baloye Dr Adrian Tiplady Selaelo Matlhane	021 506 7300	021 506 7375	mbaloye@ska.ac.za atiplady@ska.ac.za smatlhane@ska.ac.za

6	Kai !Garib Local Municipality Private Bag X6 Kakamas 8870	Mayor, Municipal Manager and Ward councillors – Mr JG Lategan	054 461 6441/ 054 461 6700	054 461 6401	mm@kaigariv.gov.za mayor@kaigarib.gov.za
7	ZF Mgcawu District Municipality Private Bag X 6039, Upington, 8800	Mayor, Municipal Manager and Ward councillors - Mr E Ntoba	054 337 2800	(054) 337 2888	admin@zfm-dm.gov.za
8	Department Water and Sanitation: NC Private Bag X6101 Kimberley 8300	Mr Abe Abrahams	053 830 8800/053 831 4534	053 830 8803	abrahamsa@dws.gov.za
9	Department of Energy (Northern Cape) Private Bag X 6093 Kimberley, 8300	The Director: Northern Cape	053 836 4000	086 562 7065	info@energy.gov.za
10	National Energy Regulator of South Africa (NERSA) P O Box 40343 Arcadia 0007	Chairperson	012 401 4033	012 4014700	info@nersa.org.za elizabeth.taylor@nersa.org.za
11	Department of Roads & Public Works – Northern Cape Z.F. MGCAWU DISTRICT OFFICE Ntsikelelo Mbetha Complex P.O. Box 436 UPINGTON 8800	The Director: Northern Cape	054 332 4473	054 332 4475	KNogwili@ncpg.gov.za drpw-info@ncpg.gov.za
12	Department of Rural Development and Land Reform - Northern Cape PSSC Offices Private Bag X5007, Kimberley, 8300	Chief Director (Northern Cape) Mr Kgotso Moeketsi	053 830 4000/1	0538328137	Kgotso.Moeketsi@drdlr.gov.za

13	South African Civil Aviation Authority Obstacle Applications Private Bag X 73 Halfway House 1685	Harry Roberts / Mr Koos Pretorius	011 – 545 1000 /011 545 1232	011 – 545 1455	obstacles@caa.co.za / pretoriusk@caa.co.za / mail@caa.co.za
14	Transnet Freight Rail Private Bag X47 Johannesburg South Africa 2000	The chairperson / Mr H vd Heever	021 401 6829	NA	enquiries@transnet.net TFR911@transnet.net
15	Northern Cape Department of Agriculture, Land Reform and Rural Development Private Bag X5018, Kimberley, 8300	The Head of Extension/ Norman Shushu	053 838 9159	053 832 4328	NA
16	Department of Environmental Affairs and Nature Conservation (Northern Cape) Private Bag X6120 Kimberley 8300	The Director	053 807 7300	053 807 7328	botesb@ncpg.gov.za dmoleko@half.ncape.gov.za
17	Ngwao-Boswa Ya Kapa Bokone (Northern Cape Provincial Heritage Resources Authority) 1 Monridge Office Park, c/o Kekewich Drive & Memorial Road, Kimberley, Northern Cape 8300	R Timothy	053 831 2537/ 079 036 9695		rtimothy@nbkb.org.za
18	South African Heritage Resources Agency (SAHRA) P.O. Box 4637 CAPE TOWN 8000	M Manong Selaelo Matlhane	(021) 462 4502	(021) 462 4509	mmanong@nc.sahra.org.za nhiggitt@sahra.org.za

19	The South African National Roads Agency (SANRAL) Private Bag X19 Bellville 7535	Deneill Fritz	021 957 4600	012 9461630	fritzd@nra.co.za
20	The Department of Environmental Affairs: Directorate Biodiversity and Conservation Environment House, 473 Steve Biko, Arcadia, Pretoria, 0083 South Africa	Deputy Director-General Biodiversity and Conservation: Mr Shonisani Munzhedzi	+27 12 399 9171	NA	smunzhedzi@environment.gov.za

NEIGHBOURS

Neighbours for portion 6 & 3 and portion 7 & 3 of farm 187

Mr & Mrs J Oberholzer
PO Box 311
Kenhardt
8900

Mr Danie Van Wyk
PO Box 81
Kenhardt
8900

Mr A Jordaan
PO Box 81
Kenhardt
8900

Mr AG Le Roux
76 Wildebeest Street
Middelpos
Upington

Mr Chris Jordaan
Grootriet Farm
PO Box 41
Kenhardt
8900

Mr Piet de Vos
PO Box 350
Keimoes
8860

Mr Chris Fourie
PO Box 1152
Prieska
8940

Mr A Husselman
Rietfontein
PO Box 72
Louisvale
8809

Mr GF Husselmann
Rietfontein
PO Box 72
Louisvale
8809

Texforce Pty Ltd
Mr Geof Hainebach
PO Box 26160
Houtbay
Cape Town
7872

Aurora Power Solutions
Nautica Building: Water Club Complex
Beach Road
Moullie Point
Cape Town
8001

Mr Michael van Niekerk
Posbus 69
Kenhardt
8900

TABLE 2: LIST OF KEY DEPARTMENTS AND REGISTERED INTERESTED & AFFECTED PARTIES

No.	STAKEHOLDER	CONTACT PERSON	TELEPHONE	FAX NUMBER	EMAIL ADDRESS
1	National Department of Agriculture, Forestry and Fisheries Private Bag X 120 Pretoria 0001 Attention: Delegate of the Minister	Ms Mashudu Marubini Delegate of the Minister (Act 70 of 1970) Ms Thoko Buthelezi Agriland Liaison office	012- 319 7619 012-319 7634	Not available	MashuduMa@daff.gov.za ThokoB@daff.gov.za
2	Birdlife South Africa Private Bag X16 Pinegowrie 2123	The Chairperson	011 789 1122	011 789 5188	info@birdlife.org.za conservation@birdlife.org.za
3	Eskom Eskom Transmission Services: Land and Rights P.O. Box 1091 Johannesburg 2000	The Manager / Chairperson Mr John Geeringh	011 800 8111 011 516 7233	011 800 4299 086 661 4064	CSONline@eskom.co.za John.geeringh@eskorn.co.za
4	South African Astronomical Observatory (SAAO) + Southern African Large Telescope (SALT) P.O. Box 9 Observatory Cape Town 7935	Director	021 447 3639	021 447 3639	salt@salt.ac.za enquiries@saa.ac.za
5	South African Radio Astronomy Observatory (SARAO) + Square Kilometre Array (SKA) 17 Baker Street, Rosebank, Johannesburg, 2196	Musa Baloye Dr Adrian Tiplady Selaelo Matlhane	021 506 7300	021 506 7375	mbaloye@ska.ac.za atiplady@ska.ac.za smatlhane@ska.ac.za

6	Kai !Garib Local Municipality Private Bag X6 Kakamas 8870	Mayor, Municipal Manager and Ward councillors – Mr JG Lategan	054 461 6441/ 054 461 6700	054 461 6401	mm@kaigariv.gov.za mayor@kaigarib.gov.za
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8	Department Water and Sanitation: NC Private Bag X6101 Kimberley 8300	Mr Abe Abrahams	053 830 8800/053 831 4534	053 830 8803	abrahamsa@dws.gov.za
9	Department of Energy (Northern Cape) Private Bag X 6093 Kimberley, 8300	The Director: Northern Cape	053 836 4000	086 562 7065	info@energy.gov.za
10	National Energy Regulator of South Africa (NERSA) P O Box 40343 Arcadia 0007	Chairperson	012 401 4033	012 4014700	info@nersa.org.za elizabeth.taylor@nersa.org.za
11	Department of Roads & Public Works – Northern Cape Z.F. MGCAWU DISTRICT OFFICE Ntsikelelo Mbetha Complex P.O. Box 436 UPINGTON 8800	The Director: Northern Cape	054 332 4473	054 332 4475	KNogwili@ncpg.gov.za drpw-info@ncpg.gov.za
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14	Transnet Freight Rail Private Bag X47 Johannesburg South Africa 2000	The chairperson / Mr H vd Heever	021 401 6829	NA	enquiries@transnet.net TFR911@transnet.net
15	Northern Cape Department of Agriculture, Land Reform and Rural Development Private Bag X5018, Kimberley, 8300	The Head of Extension/ Norman Shushu	053 838 9159	053 832 4328	NA
16	Department of Environmental Affairs and Nature Conservation (Northern Cape) Private Bag X6120 Kimberley 8300	The Director	053 807 7300	053 807 7328	botesb@ncpg.gov.za dmoleko@half.ncape.gov.za
17	Ngwao-Boswa Ya Kapa Bokone (Northern Cape Provincial Heritage Resources Authority) 1 Monridge Office Park, c/o Kekewich Drive & Memorial Road, Kimberley, Northern Cape 8300	R Timothy	053 831 2537/ 079 036 9695		rtimothy@nbkb.org.za
18	South African Heritage Resources Agency (SAHRA) P.O. Box 4637 CAPE TOWN 8000	M Manong Selaelo Matlhane	(021) 462 4502	(021) 462 4509	mmanong@nc.sahra.org.za nhiggitt@sahra.org.za

19	The South African National Roads Agency (SANRAL) Private Bag X19 Bellville 7535	Deneill Fritz	021 957 4600	012 9461630	fritzd@nra.co.za
20	The Department of Environmental Affairs: Directorate Biodiversity and Conservation Environment House, 473 Steve Biko, Arcadia, Pretoria, 0083 South Africa	Deputy Director-General Biodiversity and Conservation: Mr Shonisani Munzhedzi	+27 12 399 9171	NA	smunzhedzi@environment.gov.za
I&APS					
	None registered to date				

MAILING LIST – APPLICATION SOLAR LAND

ATT: The Director
Northern Cape Department of Environment
and Nature Conservation
Private Bag X6120
Kimberley
8300

INSURED PARCEL
ShareCall 0860 111 502 www.sapo.co.za
PA 442 371 343 ZA
CUSTOMER COPY 301012

ATT: Director Integrated Environmental Authorisations
Department of Environmental Affairs
Private Bag X447
Pretoria
0001

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GLOSDERRY 7702
Post Office
27 JUL 2018
FOLIO 4



Eco Impact
P.O. Box 45070
CLAREMONT
7735

②

WHen J [signature]

MAILING LIST - DRAFT SCOPING SL 2018

ATT: The Chairperson
Birdlife South Africa
Private Bag X5000
Parklands
Johannesburg
2121

INSURED PARCEL
ShareCall 0860 111 502 www.sapo.co.za
PA 442 371 459 ZA
CUSTOMER COPY 301012

ATT: The Head of Extension
Northern Cape Department of Agriculture,
Land Reform, Environment and Conservation
Private Bag X5018,
Kimberley,
8300

INSURED PARCEL
ShareCall 0860 111 502 www.sapo.co.za
PA 442 371 462 ZA
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ATT: The Director: Northern Cape
Department of Energy (Northern Cape)
Private Bag X 6093
Kimberley,
8300

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ATT: The Manager / Chairperson
Eskom
Eskom Transmission Services: Land and Rights
P.O. Box 1091
Johannesburg
2000

INSURED PARCEL
PA 442 371 480 ZA
A BOOK COPY

ATT: The Director: Northern Cape
Department of Roads & Public Works –
Northern Cape
Z.F. MGCWU DISTRICT OFFICE
Ntsikelelo Mbetha Complex
P.O. Box 436
UPINGTON
8800

INSURED PARCEL
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ATT: Chief Director (Northern Cape) Mr Obet
Mvula / Ms Kgalalelo Marintlhwane
Department of Rural Development and Land
Reform - Northern Cape PSSC Offices
Private Bag X5007,
Kimberley,
8300

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ATT: Mr Abe Abrahams
Department Water and Sanitation: NC
Private Bag X6101
Kimberley
8300

INSURED PARCEL
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PA 442 371 502 ZA
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ATT: R Timothy
Ngwao-Boswa Ya Kapa Bokone (Northern
Cape Provincial Heritage Resources Authority)
1 Monridge Office Park,
c/o Kekewich Drive & Memorial Road,
Kimberley,
Northern Cape
8300

INSURED PARCEL
ShareCall 0860 111 502 www.sapo.co.za
PA 442 371 153 ZA
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ATT: Chairperson
National Energy Regulator of South Africa
(NERSA)
P O Box 40343
Arcadia
0007

INSURED PARCEL
ShareCall 0860 111 502 www.sapo.co.za
PA 442 371 167 ZA
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ATT: Mayor, Municipal Manager and Ward
councillors – Mr JG Lategan
Kai !Garib Local Municipality
Private Bag X6
Kakamas
8870

INSURED PARCEL
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ATT: Mayor, Municipal Manager and Ward
councillors - Mr E Ntoba
ZF Mgcawu District Municipality
Private Bag X 6039,
UPINGTON,
8800

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ATT: The Director
Northern Cape Department of Environment
and Nature Conservation
Private Bag X6120
Kimberley
8300

INSURED PARCEL
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PA 442 371 207 ZA
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ATT: The Director
South African Astronomical Observatory –
Cape Town
P.O. Box 9
Observatory
7935

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PA 442 371 431 ZA
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Eco Impact
P.O. Box 45070
CLAREMONT
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W. K. Stead

ATT: Harry Roberts / Mr Koos Pretorius
South African Civil Aviation Authority
Obstacle Applications
Private Bag X 73
Halfway House
1685

INSURED PARCEL
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PA 442 371 445 ZA
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ATT: M Manong
South African Heritage Resources Agency
(SAHRA)
P.O. Box 4637
CAPE TOWN
8000

INSURED PARCEL
ShareCall 0860 111 502 www.sapo.co.za
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ATT: Mr Lorenzo Raynard
Square Kilometre Array (SKA): South Africa
Cape Town Office
SKA SA, 3rd Floor,
The Park, Park Road,
Pinelands,
7405

INSURED PARCEL
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PA 442 371 428 ZA
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ATT: The Chairperson / Mr H vd Heever
Transnet
Private Bag X47
Johannesburg
South Africa
2000

INSURED PARCEL
ShareCall 0860 111 502 www.sapo.co.za
PA 442 371 391 ZA
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ATT: Integrated Env Authorisations
(Deciding authority)
Department of Environmental Affairs
Private Bag X447
Pretoria
0001

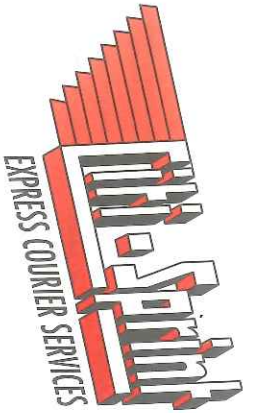
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CLAREMONT
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- SATURDAY
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SUBJECT TO STANDARD CONDITIONS OF CARRIAGE
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FROM		DEPT OF ENVIRONMENTAL AFFAIRS	
STREET ADDRESS		STREET ADDRESS ENVIRONMENTAL HOUSE, 473 STENZ	
SUBURB/CITY		BYKO ROND/ ACCORDIA	
CONTACT		SUBURB/CITY PESTORIA	
TEL		BATHANDWA CONTACT Ncube TEL 0213797372	
NO OF PARCELS	DESCRIPTION/CONTENTS	DIMENSIONS	VOL. KG WEIGHT
I/We have read, understood and agreed to the conditions of Citi-Sprint cc on the reverse hereof and I am duly authorised to sign this waybill. DATE 09-10-2013 SIGN M. Ncube		RECEIVED BY COURIER	RECEIVED IN GOOD ORDER AND CONDITION
		DATE	PRINT NAME
		TIME	DATE
<input type="checkbox"/> TICKET INSURANCE IS REQUIRED (ONLY FOR NATIONAL) AND SPECIF. AMOUNT R (MAX R20,000)			
SPECIAL INSTRUCTIONS			
ACCOUNT TO BE DEBITED			
SENDERS REF. NO.			
CASH SALE			
HUB REF. NO.			
		TOTAL (EXCL. VAT)	
		VAT	
		TOTAL (INCL. VAT)	

TABLE 3: COMMENTS AND RESPONSES TABLE

STAKEHOLDER	COMMENT	RESPONSE
APPLICATION		
<p>DEA Reference: 14112116/3/3/2/1094</p> <p>4 September 2018 Letter</p> <p>Department of Environmental Affairs</p>	<p>The Department confirms having received the Application for Environmental Authorisation and draft Scoping Report for the abovementioned project on 31 August 2018.</p> <p>Please take note of Regulation 40(3) of the EIA Regulations, 2014 which states that potential Interested & Affected Parties, including the Competent Authority, may be provided with an opportunity to comment on reports and plans contemplated in Regulation 40(1) of the EIA Regulations, 2014 prior to the submission of an application but must be provided an opportunity to comment on such reports once an application has been submitted to the Competent Authority.</p> <p>Note that in terms of Regulation 45 of the EIA Regulations, 2014 this application will lapse if the applicant falls to meet any of the time-frames prescribed in terms of these Regulations, unless an extension has been granted by the Department In terms of Regulation 3(7) of the EIA Regulations, 2014.</p> <p>All documentation delivered to the physical address contained in this form must be delivered during the official Departmental Office Hours which is visible on the Departmental gate. EIA related documents (includes application forms, reports or any EIA related submissions) that are faxed; emailed; delivered to Security or placed in the Departmental Tender Box will not be accepted.</p> <p>You are hereby reminded of Section 24F of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended, that no activity may commence prior to an Environmental Authorisation being granted by the Department.</p>	<p>Noted.</p> <p>Full public participation has been documented as detailed in this report.</p> <p>The final scoping has been submitted prior to the lapsing date.</p> <p>Noted.</p> <p>Noted.</p>
SAHRA HERITAGE APPLICATION		
<p>03 October 2018 Letter</p> <p>SAHRA</p>	<p>The Scoping report notes that an HIA inclusive of an archaeological and palaeontological specialist components will be conducted during the EIA phase.</p> <p>Interim Comment</p> <p>SAHRA notes the pending HIA and awaits the submission of the report. Please note that the HIA specialist components must comply with the SAHRA 2007 Minimum Standards: Archaeological and Palaeontological</p>	<p>Specialist appointed and studies included in draft EIR and loaded on SAHRA online system.</p>

	Component of Impact Assessments and the SAHRA 2012 Minimum Standards: Palaeontological Component of Heritage Impact Assessments. Please upload the draft EIA report and appendices so that an informed comment can be issued.	
DRAFT SCOPING REPORT		
28 September 2018 Letter DEA	The proposed development triggers Activity 15 of GN R.984 (as amended by GN R.325). Please confirm that that activity 12 of GN R.985 (as amended by GN R.324) is not triggered by the proposed development.	Activity 12 is not applicable to the proposed activity.
	Please ensure that all relevant listed activities applied for, are specific and that it can be linked to the development activity or infrastructure as described in the project description. The use of words such as 'approximately' and 'will be higher than' to describe thresholds must be avoided. Instead, well-reasoned and conservative thresholds must be specified.	All listed activities are specific and linked to the development activities as described in the scoping report on page 10.
	If the activities applied for in the application form differ from those mentioned in the final SR, an amended application form must be submitted.	Listed activities remain the same. No amended application form is required.
	Please note that the Department's application form template has been amended and can be downloaded from the following link https://www.environment.gov.za/documents/forms .	Noted, however, listed activities remain the same. No amended application form is required.
	Please provide a description of any identified alternatives for the proposed activity that are feasible and reasonable, including the advantages and disadvantages that the proposed activity or alternatives will have on the environment and on the community that may be affected by the activity as per Appendix 2 of the EIA Regulations, 2014 as amended. Alternatively, you should submit written proof of an investigation and motivation if no reasonable or feasible alternatives exist in terms of Appendix 2.	Alternatives investigated and assessed.
	Comments must be obtained from the Biodiversity and Conservation unit of this Department. Please ensure that all organs of state which have jurisdiction in respect of the proposed activity, as well as Interested and Affected Parties (I&APs), are given an opportunity to comment on the comment on proposed development.	Draft EIR sent to DEA Biodiversity and Conservation unit for comment. Full public

		participation conducted as detailed in this document.
	Please ensure that copies of original comments received from I&APs and organs of state, which have jurisdiction in respect of the proposed activity are submitted to the Department with the final SR. Should you be unable to obtain such comments, proof should be submitted to the Department of the attempts that were made to obtain the comments.	All correspondence received is included in this report. Proof of submission to all key departments is included in this report.
	All issues raised and comments received during the circulation of the draft SR from I&APs and organs of state which have jurisdiction in respect of the proposed activity are to be adequately addressed in the final SR, including comments from this Department, and must be incorporated into the Comments and Response Report. Please refrain from summarising comments made by I&APs. All comments from I&APs must be copied verbatim and responded to clearly. Please note that a response such as "noted" is not regarded as an adequate response to an I&AP's comments.	Public participation was conducted and the process followed is detailed in this report. All comments included verbatim and responded to.
	The Public Participation Process must be conducted in terms of Regulation 39, 40, 41, 42, 43 & 44 of the EIA Regulations 2014, as amended.	Public participation was conducted and the process followed is detailed in this report.
	The Plan of Study for EIA in the final SR must include amongst others an Avifaunal Impact Assessment, Heritage Impact Assessment, Visual Impact Assessment, Social Impact Assessment, Traffic Impact Assessment and an Ecological and Wetlands Impact Assessment.	The final scoping includes a POS for the EIA and all the relevant specialist studies are listed.
	Please ensure that the correct and complete contact details for the provincial authority are provided.	Updated and listed in this document.
	In accordance with Appendix 2 (1) (a) of the EIA Regulations 2014 as amended, the details of the EAP who prepared the report; and (ii) the expertise of the EAP to carry out Scoping and Environmental impact assessment procedures; must be submitted.	Please see Appendix for CV of the EAP.
	Coordinates of the proposed development site boundary in degrees minutes and seconds.	Included in scoping and EIR.
	xi. You are further reminded that the final SR to be submitted to this Department must comply with all the requirements in terms of the scope of assessment and content of scoping reports in accordance with Appendix 2 and Regulation 21(1) of the EIA Regulations, 2014, as amended.	Noted.

<p>29 OCTOBER 2018 Email ESKOM</p>	<p>Please find attached Eskom requirements for developments at or near Eskom infrastructure and servitudes. Please send me KMZ files of the proposed affected property and layouts as well as the proposed power line connection to Aries substation. Please copy Martina in the response. She is the Eskom Land Development Programme Manager for the Northern Cape area and her section may have some projects in the area. Once we receive the KMZ files, Eskom will be in a better position to respond with some comments.</p> <ol style="list-style-type: none"> 1. Eskom's rights and services must be acknowledged and respected at all times. 2. Eskom shall at all times retain unobstructed access to and egress from its servitudes. 3. Eskom's consent does not relieve the developer from obtaining the necessary statutory, land owner or municipal approvals. 4. Any cost incurred by Eskom as a result of non-compliance to any relevant environmental legislation will be charged to the developer. 5. If Eskom has to incur any expenditure in order to comply with statutory clearances or other regulations as a result of the developer's activities or because of the presence of his equipment or installation within the servitude restriction area, the developer shall pay such costs to Eskom on demand. 6. The use of explosives of any type within 500 metres of Eskom's services shall only occur with Eskom's previous written permission. If such permission is granted the developer must give at least fourteen working days prior notice of the commencement of blasting. This allows time for arrangements to be made for supervision and/or precautionary instructions to be issued in terms of the blasting process. It is advisable to make application separately in this regard. 7. Changes in ground level may not infringe statutory ground to conductor clearances or statutory visibility clearances. After any changes in ground level, the surface shall be rehabilitated and stabilised so as to prevent erosion. The measures taken shall be to Eskom's satisfaction. 	<p>KMZ files emailed back in response.</p> <p>Noted and stated in EMPr.</p>
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	<ol style="list-style-type: none">8. Eskom shall not be liable for the death of or injury to any person or for the loss of or damage to any property whether as a result of the encroachment or of the use of the servitude area by the developer, his/her agent, contractors, employees, successors in title, and assignees. The developer indemnifies Eskom against loss, claims or damages including claims pertaining to consequential damages by third parties and whether as a result of damage to or interruption of or interference with Eskom's services or apparatus or otherwise. Eskom will not be held responsible for damage to the developer's equipment.9. No mechanical equipment, including mechanical excavators or high lifting machinery, shall be used in the vicinity of Eskom's apparatus and/or services, without prior written permission having been granted by Eskom. If such permission is granted the developer must give at least seven working days' notice prior to the commencement of work. This allows time for arrangements to be made for supervision and/or precautionary instructions to be issued by the relevant Eskom Manager. Note: Where and electrical outage is required, at least fourteen work days are required to arrange it.10. Eskom's rights and duties in the servitude shall be accepted as having prior right at all times and shall not be obstructed or interfered with.11. Under no circumstances shall rubble, earth or other material be dumped within the servitude restriction area. The developer shall maintain the area concerned to Eskom's satisfaction. The developer shall be liable to Eskom for the cost of any remedial action which has to be carried out by Eskom.12. The clearances between Eskom's live electrical equipment and the proposed construction work shall be observed as stipulated by Regulation 15 of the Electrical Machinery Regulations of the Occupational Health and Safety Act, 1993 (Act 85 of 1993).13. Equipment shall be regarded electrically live and therefore dangerous at all times.	
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	<p>14. In spite of the restrictions stipulated by Regulation 15 of the Electrical Machinery Regulations of the Occupational Health and Safety Act, 1993 (Act 85 of 1993), as an additional safety precaution, Eskom will not approve the erection of houses, or structures occupied or frequented by human beings, under the power lines or within the servitude restriction area.</p> <p>15. Eskom may stipulate any additional requirements to highlight any possible exposure to Customers or Public to coming into contact or be exposed to any dangers of Eskom plant.</p> <p>16. It is required of the developer to familiarise himself with all safety hazards related to Electrical plant.</p> <p>17. Any third party servitudes encroaching on Eskom servitudes shall be registered against Eskom's title deed at the developer's own cost. If such a servitude is brought into being, its existence should be endorsed on the Eskom servitude deed concerned, while the third party's servitude deed must also include the rights of the affected Eskom servitude.</p>	
	<p>Title: Renewable Energy Generation Plant Setbacks to Eskom Infrastructure</p> <p>EXECUTIVE SUMMARY</p> <p>In recent decades, the use of wind turbines, concentrated solar plants and photovoltaic plants have been on the increase as it serves as an abundant source of energy. This document specifies setbacks for wind turbines and the reasons for these setbacks from infrastructure as well as setbacks for concentrated solar plants and photovoltaic plants. Setbacks for wind turbines employed in other countries were compared and a general setback to be used by Eskom was suggested for use with wind turbines and other renewable energy generation plants.</p> <p>Concentrated solar plants and photovoltaic plants setbacks away from substations were also to be considered to prevent restricting possible power line access routes to the substation. Concentrated solar plants and photovoltaic plants setback away from substations were required to prevent substations from being boxed in by these renewable generation plants limiting line route access to the substations.</p>	<p>Noted and stated in EMPr.</p>

	<p>Concentrated solar plants and photovoltaic plants also can limit access into the substation for power lines of all voltages. A setback distance must therefore be employed to prevent the substation from being boxed in by these generation plants. These setback distances are specified in this document.</p> <ul style="list-style-type: none"> • Eskom must be informed of any proposed wind turbine, concentrated solar plants and photovoltaic activity within a 5 km radius of a substation. • Where concentrated solar plants and photovoltaic structures fall within a 2 km radius of the closest point of a substation, Eskom should be informed in writing during the planning phase of the construction of such plant or structure. 	
FINAL SCOPING		
<p>16 OCTOBER 2018 Letter DEA DEA Reference: 1411211613/312/1094 Enquiries: Juliet Mahlangu</p>	<p>The Department confirms having received the final Scoping Report (SR) for the abovementioned project on 11 October 2018. We further confirm that you have submitted these documents to comply with the Environmental Impact Assessment (EIA) Regulations, 2014, as amended.</p>	<p>Noted.</p>
<p>26 November 2018 DEA</p>	<p>All comments and recommendations made by all stakeholders and Interested and Affected Parties (I&APs) in the draft SR and submitted as part of the final SR must be taken into consideration when preparing an Environmental Impact Assessment report (EIAR) in respect of the proposed development.</p>	<p>All comments and recommendations as outlined in this table have been taken into consideration when preparing an Environmental Impact Assessment.</p>
	<p>Please ensure that all mitigation measures and recommendations in the specialist studies are addressed and included in the final EIAR and Environmental Management Programme (EMPr).</p>	<p>All mitigation measures and recommendations in the specialist studies are addressed and included in the final EIAR and</p>

		Environmental Management Programme (EMPr).
	Please ensure that the EIAr and EMPr comply with Appendix 3 and Appendix 4 of Regulation 2014 (as amended) before submission to the Department. You are also required to address all issues raised by organs of state and I&APs prior to the submission of the EIAr to the Department.	Noted. The EIAr and EMPr comply with Appendix 3 and Appendix 4 of Regulation 2014 (as amended). All issues raised by organs of state and I&APs have been addressed as outlined in this table.
	Proof of correspondence with the various stakeholders must be included in the EIAr. 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 submissions and all correspondence is included in this document.
	The draft EIAr must provide an assessment of the impacts and mitigation measures for each of the listed activities applied for.	The EIR indicate each listed activity and which impacts apply to each listed activity.
	Should the specialist studies provide more detail regarding any of the project activity thresholds, please ensure that the project activity descriptions are amended accordingly in the application form and EIAr.	Information in EIR should be considered final.
	Activity 14 of GN R.985 (as amended): The description fails to explain how the proposed development triggers this activity. You have indicated that the development triggers Activity 14(ii). Please further indicate which sub-activities (a/b/c) (i/ii/iii) (aa/bb/cc etc.) are applicable under the relevant province and elaborate in the description column.	Updated in EIAr.
	The listed activities represented in the EIAr and the application form must be the same and correct.	Noted. The same listed activities apply. 11, 19 and 28 of listing notice 1, activity 1 and 15 of listing notice 2

		and activity 14 of listing notice 3.
	Please verify that the expansion of the Aries Substation to receive the generated electricity into the Eskom grid does not trigger any listed activities.	<p>Upgrade does not trigger listed activity.</p> <p>The Aries MTS is a 400 kV substation. In order to expand the capacity of the substation, an intermediate bus at a nominal voltage of 132 kV via a 400 kV:132 kV transformer(s) bus in the substation must be constructed in the existing Aries Substation for the connection of the PV power plant via a 132 kV transformer(s).</p> <p>Apart from the transformer(s) necessary to establish a new bus, other power system components and equipment are necessary. These typically include amongst other three circuit breakers, three current transformers and three bus isolators at each side of the transformer for each transformer. All newly</p>

		<p>established busses will also be equipped with three capacitive voltage transformers to measure the bus voltages. All of these components are mounted on steel structures with height of approximately 3 to 3.5 meters from ground level. Lastly, the steel structures for the support of the overhead busbar conductors and cabling are of the order of 10 m in height. The expansion to Aries Substation does not require Environmental Authorizations. The proposed expansions will not result in expanded capacity that will exceed 275 kilovolts and the development footprint will not increase. The expansions is 132 kilovolts and within the existing Aries substation.</p>
	<p>The EIAr phase must provide detailed information on the powerline alternatives and must assess the impacts of the powerline together with the impacts of the solar facility.</p>	<p>There are no powerline alternatives due to powerline being relocated</p>

		and using existing powerline route which. Impacts of the solar facility and powerline have been assessed together.
	The EIAr must provide the technical details for the proposed facility in a table format as well as their description and/or dimensions. A sample for the minimum information required is listed under point 2 of the EIA information required for PV facilities below.	Such information is included in the EIAr on pages 2, 34 and 35.
	The EIAr must provide the four corner coordinate points for the proposed development site (note that if the site has numerous bend points, at each bend point coordinates must be provided) as well as the start, middle and end point of any linear activities.	Included in the EIAr on page 36 – 38.
	Please ensure that the Environmental Assessment Practitioner (EAP) and Specialist declarations of interest are completed in full and that it is signed.	Will only be included in the final EIAr.
	The EIAr must provide the following: Clear indication of the envisioned area for the proposed PV facility; i.e. placing of solar panels and all associated infrastructure should be mapped at an appropriate scale.	Updated site development plan is included in Appendix A.
	<p>Clear description of all associated infrastructure. This description must include, but is not limited to the following:</p> <ul style="list-style-type: none"> • Powerlines; • Internal roads infrastructure; • All supporting onsite infrastructure such as laydown area, guard house and control room etc.; and • All necessary details regarding all possible locations and sizes of the proposed satellite substation and the main substation. 	SDP in Appendix B indicates the powerlines and substations. Also, detailed EIAr.

	<p>A hydrological assessment must be conducted as part of the proposed Ecological Impact Assessment in section 8.6.1 of the final SR, and must also assess the impacts on the surface hydrology of the proposed development area. The terms of reference for the study must include, <i>inter a/ia</i> the following:</p> <ul style="list-style-type: none"> • Identification and sensitivity rating of all surface water courses for the impact phase of the proposed development; • Identification, assessment of all potential impacts to the water courses and suggestion of mitigation measures; and, • Recommendations on the preferred placement of the facility and all associated infrastructure and preference must be provided to the avoidance of the watercourses on the property. 	<p>See Appendix G1 Ecology Terrestrial Freshwater Wetland Avifauna.</p>
	<p>Section 8.6.1 of the final SR states that an Avifaunal Assessment will be conducted as part of the EIAr. The terms of reference for the study must include, <i>inter alia</i> the following:</p> <ul style="list-style-type: none"> • Determine the impacts that the proposed activity (including the power line) may have on avifauna; • Must cover at a minimum the summer and winter seasons; • The assessment must include mitigation measures to discourage the avifauna from entering the solar field as well and limit nesting and breeding grounds within the solar field. • The avifaunal specialist study must be expanded to include vantage point surveys as well as flight paths to consider how birds will move through the property. The study must also propose adequate mitigation measures to reduce the facilities impacts on avifauna frequenting the area. • Assess the cumulative impact on avifauna within the site and within the local area. 	<p>See Appendix G1 Ecology Terrestrial Freshwater Wetland Avifauna.</p>
	<p>A soils, land use and land capability assessment must be conducted as part of the proposed Agricultural Impact Assessment in section 8.6.2 of the final SR. The terms of reference for the soils, land use and land capability assessment must also include, <i>inter a/ia</i> the following:</p> <ul style="list-style-type: none"> • Assessment of the loss of agricultural land; • The current state of agricultural activities on land; 	<p>Included in the EIAr and in Appendix G2 Agricultural Impact Assessment</p>

	<ul style="list-style-type: none"> The impact of the loss of agricultural land within the property as well as the cumulative impact of the loss of agricultural land on the site and within the area. 	
	<p>The specialist studies conducted must be specific to a PV facility and must assess cumulative impacts of other existing and proposed Renewable Energy developments in the area. The EIA must also include a cumulative impact environmental statement on whether the proposed project should proceed or not.</p>	<p>See Appendix G for specialist studies.</p>
	<p>It is noted that the Plan of Study for EIA does not include a Noise Impact Assessment. This needs to be included as part of the assessment during the EIA phase. Otherwise, the EAP must provide a motivation if this study is not required by the proposed development.</p>	<p>Little to no noise will be generated. Only minimal noise during the construction phase will be generated and the site is isolated.</p>
	<p>Where specialist studies are conducted in-house or by a specialist other than a suitably qualified specialist in the relevant field, such specialist reports must be peer reviewed by a suitably qualified external specialist in the relevant field. The terms of reference for the peer review must include:</p> <ul style="list-style-type: none"> > A CV clearly showing expertise of the peer reviewer; > Acceptability of the terms of reference; > Is the methodology clearly explained and acceptable; > Evaluate the validity of the findings (review data evidence); > Discuss the suitability of the mitigation measures and recommendations; > Identify any short comings and mitigation measures to address the short comings; > Evaluate the appropriateness of the reference literature; > Indicate whether a site-inspection was carried out as part of the peer review; and > Indicate whether the article is well-written and easy to understand. 	<p>Please see ecology and agricultural study reviews in Appendix G.</p>
	<p>Please note that it is the responsibility of the EAP to identify all the relevant impacts as well as specialist studies that needs to be conducted.</p>	<p>Noted. Impacts addressed EIAr.</p>
	<p>The EIA must also include a comments and response (C&R) report in accordance with Appendix 2 of the EIA Regulations, 2014 (as amended). Please refrain from summarising comments made by I&APs. All comments from I&APs must be copied verbatim and responded to clearly. Please note that a response such as "noted" is not regarded as an adequate response to an I&AP's comments.</p>	<p>This is the comments and response report in accordance with Appendix 2 of the EIA Regulations, 2014 (as amended).</p>

	<p>A copy of the final site layout map and alternatives. 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:</p> <ul style="list-style-type: none"> > Solar panel positions and its associated infrastructure; > Permanent laydown area 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; > Substation(s) and/or transformer(s) sites including their entire footprint; > Connection routes (including pylon positions) to the distribution/transmission network; > All existing infrastructure on the site, especially roads; > Buffer areas; > Buildings, including accommodation; and > All "no-go" areas. 	See Appendix A -C.
	An environmental sensitivity map indicating environmental sensitive areas and features identified during the EIA process.	See Appendix C.
	A map combining the final layout map superimposed (overlain) on the environmental sensitivity map.	See Appendix C.
	<p>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:</p> <p>Postal Address:</p>	Shapefiles are included on the CDs as Appendix I: Shapefiles.

	<p>Department of Environmental Affairs Private Bag X44 7 Pretoria 0001 Physical address: Environment House 4 73 Steve Biko Road Pretoria Postal Address: Department of Environmental Affairs Private Bag X44 7 Pretoria 0001 Physical address: Environment House 4 73 Steve Biko Road Pretoria For Attention: Muhammad Essop Integrated Environmental Authorisations Strategic Infrastructure Developments Telephone Number: (012) 399 9406 Email Address: MEssop@environment.gov .za</p>	
	<p>The Environmental Management Programme (EMPr) to be submitted as part of the EIA must include the following: All recommendations and mitigation measures recorded in the EIA and the specialist studies conducted</p>	<p>EMPr included in Appendix and includes all recommendations and mitigation measures recorded in the EIA and the specialist studies conducted.</p>
	<p>The EMPr must include The final site layout map</p>	<p>Included in Annexure 1 of the EMPr.</p>

	The EMPr must include An environmental sensitivity map indicating environmental sensitive areas and features identified during the EIA process.	Included in Annexure 2 of the EMPr.
	The EMPr must include A map combining the final layout map superimposed (overlain) on the environmental sensitivity map.	EMPr included in Appendix F.
	The EMPr must include 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.	Included in EMPr.
	The EMPr must include 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.	Included in EMPr.
	The EMPr must include 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.	Included in EMPr.
	The EMPr must include An open space management plan to be implemented during the construction and operation of the facility.	Included in EMPr.
	The EMPr must include 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.	Included in EMPr.
	The EMPr must include 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.	Included in EMPr.

	The EMPr must include A fire management plan to be implemented during the construction and operation of the facility.	Included in EMPr.
	The EMPr must include 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.	Included in EMPr.
	The EMPr must include 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.	EMPr included in Appendix F.
	The EMPr must include 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.	EMPr included in Appendix F.
	You are requested to submit two (2) electronic copies (1 CD & 1 USB) and two (2) hard copies of the EIAr to the Department as per Regulation 23(1) of the EIA Regulations, 2014 (as amended).	Noted.
	<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.} • PV 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 delivery 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>	Included in EIAr.

Sample of technical details for the proposed facility	Included in EIAr.
Site maps and GIS information should include at least the following:	
All maps/information layers must also be provided in ESRI Shapefile format	See Appendix I.
All affected farm portions must be indicated	See Appendix A-C and I.
The exact site of the application must be indicated (the areas that will be occupied by the application)	See Appendix A-C and I.
<p>A status quo map/layer must be provided that includes the following:</p> <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 • 1 km from residential areas > Indicate isolated residential, tourism facilities on or within 1 km of the site 	See Appendix A-C and I.
<ul style="list-style-type: none"> • A slope analysis map layer that include the following slope ranges: <ul style="list-style-type: none"> > Less than 8% slope (preferred areas for PV and infrastructure) > between 8% and 12% slope (potentially sensitive to PV and infrastructure) > between 12% and 14% slope (highly sensitive to PV and infrastructure) 	See Appendix A-C and I.

	<p>> steeper than 18 % slope (unsuitable for PV and infrastructure)</p> <ul style="list-style-type: none"> • A site development proposal map(s) layer(s) that indicate: <ul style="list-style-type: none"> > 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 at PV 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) > Buildings including accommodation 	See Appendix A-C and I.
	<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 	See Appendix A-C and I.

	<ul style="list-style-type: none"> > 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 	
	<p>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 Mashudu 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><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 X 120</p>	<p>The draft EIAr will be sent to DAFF using the provided details. Comment will be included in the Final EIAr.</p>

	<p>Pretoria 0001 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: 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</p>	<p>Comment from Eskom (Mr John Geeringh) included in this document. The draft EIAr will be sent to Eskom for further comment and comments will be included in the final EIAr.</p>
	<p><u>AGRICULTURE STUDY REQUIREMENTS</u> 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:</p> <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 - 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 <p>Exact locality of the site</p> <p>Current activities on the site, developments, buildings</p> <p>Surrounding developments/ land uses and activities in a radius of 500 m of the site</p> <p>Access routes and the condition thereof</p>	<p>See Appendix G2 Agricultural Impact Assessment Report. Some of this information is included in the Geotechnical study in Appendix G8 Geotechnical Impact Assessment.</p>

	<p>Current status of the land (including erosion, vegetation and a degradation assessment)</p> <p>Possible land use options for the site</p> <p>Water availability, source and quality (if available)</p> <p>Detailed descriptions of why agriculture should or should not be the land use of choice</p> <p>Impact of the change of land use on the surrounding area</p> <p>A shape file containing the soil forms and relevant attribute data as depicted on the map</p>	
	<p>ASTRONOMY GEOGRAPHIC ADVANTAGE ACT, 2007 (ACT NO. 21 OF 2007)</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>	<p>Stated in impact tables.</p> <p>This draft EIAR has been made available to SALT for comment.</p>
<p>South African Radio Astronomy Observatory (SARAO) (SALT, SKA and MeerKat)</p> <p>20 December 2018</p>	<p>i. Based on the location provided on the scoping report, the facility will generate medium-to-low risk of interference on the nearest telescope (SKA005) on the SKA spiral arm.</p> <p>ii. The preliminary assessment based on the SANS211 limits, indicates that the emissions levels from the facilities will marginally fall below the required spectral density threshold for protection of the telescope against electromagnetic interference.</p> <p>iii. It is advisable that you ensure that electromagnetic emissions do not exceed limits prescribed in SANS211 standards.</p> <p>Any radio communication services and equipment located within the declared Karoo Central Astronomy Advantage Area shall be required to comply with the relevant regulations as promulgated.</p>	<p>Noted and stated in impact tables.</p> <p>Stated as required mitigation measures in EIR.</p>

	SARAO does not object the project at the current stage, however, we would like to be kept informed of the developments with this project and reserves the right to further risk assessments at a later stage.	
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environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

Private Bag X 447· PRETORIA · 0001· Environment House · 473 Steve Biko Road, Arcadia · PRETORIA

DEA Reference: 14/12/16/3/3/2/1094
Enquiries: Azrah Essop
Tel: 012 399 8529 E-mail: AEssop@environment.gov.za

Jessica Hansen
Eco Impact Legal Consulting (Pty) Ltd
P O Box 45070
CLAREMONT
7735

Tel: 021 671 1660
Email: admin@ecoimpact.co.za

PER EMAIL / MAIL

Dear Sir/Madam

ACKNOWLEDGEMENT OF RECEIPT OF THE NEW APPLICATION FOR ENVIRONMENTAL AUTHORISATION (ENVIRONMENTAL IMPACT ASSESSMENT PROCESS) AND SCOPING REPORT FOR THE PROPOSED DEVELOPMENT OF A 300MW SOLAR PV ELECTRICITY GENERATION FACILITY ON PORTION 6 OF FARM 187, KENHARDT WITHIN THE NORTHERN CAPE PROVINCE

The Department confirms having received the Application for Environmental Authorisation and draft Scoping Report for the abovementioned project on 31 August 2018. We further confirm that you have submitted these documents to comply with the National Environmental Management Act, 1998 (Act No. 107 of 1998) Environmental Impact Assessment Regulations, 2014 published under Government Notice R982 in Government Gazette No. 38282 dated 04 December 2014, as amended ('the EIA Regulations, 2014').

Please take note of Regulation 40(3) of the EIA Regulations, 2014 which states that potential Interested & Affected Parties, including the Competent Authority, may be provided with an opportunity to comment on reports and plans contemplated in Regulation 40(1) of the EIA Regulations, 2014, prior to the submission of an application but must be provided an opportunity to comment on such reports once an application has been submitted to the Competent Authority.

Note that in terms of Regulation 45 of the EIA Regulations, 2014 this application will lapse if the applicant fails to meet any of the time-frames prescribed in terms of these Regulations, unless an extension has been granted by the Department in terms of Regulation 3(7) of the EIA Regulations, 2014.

All documentation delivered to the physical address contained in this form must be delivered during the official Departmental Office Hours which is visible on the Departmental gate. EIA related documents (includes application forms, reports or any EIA related submissions) that are faxed; emailed; delivered to Security or placed in the Departmental Tender Box will not be accepted.

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

Kindly quote the abovementioned reference number in any future correspondence in respect of the application.

Yours sincerely



Mr Sabelo Malaza

Chief Director: Integrated Environmental Authorisations

Department of Environmental Affairs

Letter signed by: Ms Azrah Essop

Designation: Environmental Officer: EIA Coordination, Strategic Planning and Support

Date: 4 September 2018

CC:	Michael Stoeltzing	Solar Energy Land (Pty) Ltd	Email: michael@bakenhof.co.za
	H.O.D.	Northern Cape Department of Tourism Environmental Affairs and Nature Conservation	Email: none provided
	Municipal Manager	Kai! Garib Local Municipality	Email: mm@kaigarib.gov.za



environmental affairs

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DEA Reference: 14/12/16/3/3/2/1094

Enquiries: Ms Bathandwa Ncube

Telephone: 012 399 9368 **E-mail:** BNcube@environment.gov.za

Ms Jessica Hansen
Eco Impact Legal Consulting (Pty) Ltd.
P.O. Box 45070
CLAREMONT
7735

Fax : 021 671 9976
Tel : 021 671 1660
Email : admin@ecoimpact.co.za

PER MAIL / E-MAIL

Dear Ms Hansen

COMMENTS ON THE DRAFT SCOPING REPORT FOR THE PROPOSED DEVELOPMENT OF A 300MW SOLAR PV ELECTRICITY GENERATION FACILITY ON PORTION 6 OF FARM 187, KENHARDT, NORTHERN CAPE PROVINCE.

The draft Scoping Report (SR) dated July 2018 and received by the Department on 31 August 2018, and the acknowledgement letter of the application form and the draft SR issued by this Department on 04 September 2018 refer.

This Department has the following comments on the above-mentioned application:

Listed activities

- a) The proposed development triggers Activity 15 of GN R.984 (as amended by GN R.325). Please confirm that that activity 12 of GN R.985 (as amended by GN R.324) is not triggered by the proposed development.
- b) Please ensure that all relevant listed activities are applied for, are specific and that it can be linked to the development activity or infrastructure as described in the project description. The use of words such as 'approximately' and 'will be higher than' to describe thresholds must be avoided. Instead, well-reasoned and conservative thresholds must be specified.
- c) If the activities applied for in the application form differ from those mentioned in the final SR, an amended application form must be submitted.
- d) Please note that the Department's application form template has been amended and can be downloaded from the following link <https://www.environment.gov.za/documents/forms>.

Alternatives

- e) Please provide a description of any identified alternatives for the proposed activity that are feasible and reasonable, including the advantages and disadvantages that the proposed activity or alternatives will have on the environment and on the community that may be affected by the activity as per Appendix 2 of the EIA Regulations, 2014 as amended. Alternatively, you should submit written proof of an investigation and motivation if no reasonable or feasible alternatives exist in terms of Appendix 2.

Public Participation Process

- f) Comments must be obtained from the Biodiversity and Conservation unit of this Department;
- g) Please ensure that all organs of state which have jurisdiction in respect of the proposed activity, as well as Interested and Affected Parties (I&APs), are given an opportunity to comment on the comment on proposed development.
- h) Please ensure that copies of original comments received from I&APs and organs of state, which have jurisdiction in respect of the proposed activity are submitted to the Department with the final SR. Should you be unable to obtain such comments, proof should be submitted to the Department of the attempts that were made to obtain the comments.
- i) All issues raised and comments received during the circulation of the draft SR from I&APs and organs of state which have jurisdiction in respect of the proposed activity are to be adequately addressed in the final SR, including comments from this Department, and must be incorporated into the Comments and Response Report. Please refrain from summarising comments made by I&APs. All comments from I&APs must be copied *verbatim* and responded to clearly. Please note that a response such as "noted" is not regarded as an adequate response to an I&AP's comments.
- j) The Public Participation Process must be conducted in terms of Regulation 39, 40 41, 42, 43 & 44 of the EIA Regulations 2014, as amended.

The following additional information is required:

- k) The Plan of Study for EIA in the final SR must include amongst others an Avifaunal Impact Assessment, Heritage Impact Assessment, Visual Impact Assessment, Social Impact Assessment, Traffic Impact Assessment and an Ecological and Wetlands Impact Assessment.
- l) Please ensure that the correct and complete contact details for the provincial authority are provided.
- m) In accordance with Appendix 2 (1) (a) of the EIA Regulations 2014 as amended, the details of—
 - (i) *the EAP who prepared the report; and*
 - (ii) *the expertise of the EAP to carry out Scoping and Environmental Impact assessment procedures;*must be submitted.
- n) Coordinates of the proposed development site boundary in degrees minutes and seconds.

General

You are further reminded that the final SR to be submitted to this Department must comply with all the requirements in terms of the scope of assessment and content of Scoping reports in accordance with Appendix 2 and Regulation 21(1) of the EIA Regulations, 2014, as amended.

Further note that in terms of Regulation 45 of the EIA Regulations 2014, as amended, this application will lapse if the applicant fails to meet any of the timeframes prescribed in terms of these Regulations, unless an extension has been granted in terms of Regulation 3 (7).

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 Sabelo Malaza

Chief Director: Integrated Environmental Authorisations

Department of Environmental Affairs

Signed by: Ms. Pumeza Skepe-Mgcita

Designation: Deputy Director: IPS & S24G

Date: 28/09/2018

cc:	Solar Energy Land (Pty) Ltd.	Michael Stoeltzing	Tel: 021 864 3774	Email: michael@bakenhof.co.za
	Kai IGarib Local Municipality	Municipal Manager	Tel: 054 461 6328	Email: mrm@kaigarib.gov.za

Our Ref:



an agency of the
Department of Arts and Culture

T: +27 21 462 4502 | F: +27 21 462 4509 | E: info@sahra.org.za
South African Heritage Resources Agency | 111 Harrington Street | Cape Town
P.O. Box 4637 | Cape Town | 8001
www.sahra.org.za

Enquiries: Natasha Higgitt
Tel: 021 462 4502
Email: nhiggitt@sahra.org.za
CaseID: 11247

Date: Wednesday October 03, 2018
Page No: 1

Interim Comment

In terms of Section 38(3), 38(8) of the National Heritage Resources Act (Act 25 of 1999)

Attention: Ms Jessica Le Roux
Eco Impact Legal Consulting Pty Ltd

The construction of the Solar Energy Land (Pty) Ltd 300 MW Photovoltaic Electricity Generation and 132 kV power line on Portion 6 and 3 of Farm Olyvenkolk, located approximately 37km southwest of the town of Kenhardt in the Northern Cape Province. The infrastructure associated with this facility includes:

- **Solar panels arranged in units with a generating capacity of approximately 300 MW and a total footprint of approximately 600ha.**
- **A 132 kV power line (mono pole structures) of approximately 7 km over Portions 6 and 3 of Farm 187 to feed the electricity generated into the existing Aries substation.**
- **Expansion of the Aries substation to receive the generated electricity into the ESKOM grid; and**
- **Ancillary infrastructure such as inverters and transformers, conductors (cables), a central bushbar, isolators, switch gear, protection infrastructure, measurement devices and maintenance facility and security and control room.**

The proposed development will be constructed closer than 32 meters from watercourses. The electricity cable connecting the panels to each other, the distribution network will be laid underground and access roads will be constructed through some of the drainage lines. The panels would be mounted on the ground using a ground screw. A concrete foot piece secured to a steel pen driven into the ground would be used where it is not feasible to use ground screws. The maximum height of the panels in operation would be approximately 5m and would allow some ground clearance for the free flow of surface water underneath the panels and for agricultural purposes where required. The solar panels may be equipped with sun-trackers. The facility and associated infrastructure will be accessed on a 6m wide road with direct access off the Kenhardt to Pofadder gravel road. A combination of paving and or treated gravel may be utilised for this road. A 5m management track will surround each block of photovoltaic arrays, totalling approximately 9km of gravel road. These single track management roads will be used as access roads to service and maintain structures and to serve as fire breaks. On full commissioning of the facility, any access points to the site which are not required during operational phase will be closed and rehabilitated. Water will be sourced from existing boreholes, which will be registered under the National Water Act water use.

Eco Impact Legal Consulting (Pty) Ltd has been appointed by Solar Energy Land cc to conduct an Environmental Authorisation (EA) Application process for the proposed 300MW PV Electrical Generation Facility on portions 3 and 6 of farm Olyvenkolk 187, Kenhardt District, Northern Cape Province.

Our Ref:



an agency of the
Department of Arts and Culture

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South African Heritage Resources Agency | 111 Harrington Street | Cape Town
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Enquiries: Natasha Higgitt
Tel: 021 462 4502
Email: nhiggitt@sahra.org.za
CaseID: 11247

Date: Wednesday October 03, 2018
Page No: 2

A draft Scoping report (2018) has been submitted in terms of the National Environmental Management Act, No 107 of 1998 (NEMA) and the NEMA 2017 Environmental Impact Assessment (EIA) Regulations. The proposed development includes the construction of solar panels covering 600 ha, 7 km 132kv powerline, expansion of the Aries Substation, ancillary infrastructure such as cables, switch gear, maintenance facility, and security and control room.

The Scoping report notes that an HIA inclusive of an archaeological and palaeontological specialist components will be conducted during the EIA phase.

Interim Comment

SAHRA notes the pending HIA and awaits the submission of the report. Please note that the HIA specialist components must comply with the SAHRA 2007 Minimum Standards: Archaeological and Palaeontological Component of Impact Assessments and the SAHRA 2012 Minimum Standards: Palaeontological Component of Heritage Impact Assessments.

Please upload the draft EIA report and appendices so that an informed comment can be issued.

Should you have any further queries, please contact the designated official using the case number quoted above in the case header.

Yours faithfully

Natasha Higgitt
Heritage Officer
South African Heritage Resources Agency

**Solar Land 300 MW Solar PV Electricity Generation on Portion 6 of Farm 187,
Kenhardt, Northern Cape**

Our Ref:



an agency of the
Department of Arts and Culture

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Enquiries: Natasha Higgitt
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Email: nhiggitt@sahra.org.za
CaseID: 11247

Date: Wednesday October 03, 2018
Page No: 3

Phillip Hine
Acting Manager: Archaeology, Palaeontology and Meteorites Unit
South African Heritage Resources Agency

ADMIN:
Direct URL to case: <http://www.sahra.org.za/node/405254>
(DEA, Ref: 14/12/16/3/3/2/1005)



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

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DEA Reference: 14/12/16/3/3/2/1094

Enquiries: Julliet Mahlangu

Tel: 012 399 9320 E-mail: jmmahlangu@environment.gov.za

Mrs Jessica Hansen
Eco Impact Environmental Health & Safety Legal Consulting
P O Box 45070
CLAREMONT
7735

Tel: 021 671 1660
Email: admin@ecoimpact.co.za

PER EMAIL / MAIL

Dear Sir/Madam

ACKNOWLEDGEMENT OF RECEIPT OF THE SCOPING REPORT FOR THE PROPOSED SOLAR ENERGY LAND (PTY) LTD 300 MW SOLAR PV ELECTRICITY GENERATION FACILITY ON PORTIONS 6 OF FARM 187, KENHARDT, NORTHERN CAPE

The Department confirms having received the Final Scoping Report for the abovementioned project on 11 October 2018. You have submitted these documents to comply with the Environmental Impact Assessment Regulations (EIA), 2014, as amended.

Please take note of Regulation 40(3) of the EIA Regulations, 2014, as amended, which states that potential Interested & Affected Parties (I&APs), including the Competent Authority (CA), may be provided with an opportunity to comment on reports and plans contemplated in Regulation 40(1) of the EIA Regulations, 2014, as amended, prior to the submission of an application but must be provided an opportunity to comment on such reports once an application has been submitted to the Competent Authority (CA).

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

Kindly quote the abovementioned reference number in any future correspondence in respect of the application.

Yours sincerely

Mr Sabelo Malaza

Chief Director: Integrated Environmental Authorisations
Department of Environmental Affairs

Letter signed by: Ms Azrah Essop

Designation: Environmental Officer: Coordination, Strategic Planning and Support

Date: 16 October 2018



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

Private Bag X 447· PRETORIA · 0001· Environment House · 473 Steve Biko Road · Arcadia · PRETORIA

DEA Reference: 14/12/16/3/3/2/1094

Enquiries: Ms Bathandwa Ncube

Telephone: 012 399 9368 E-mail: BNcube@environment.gov.za

Ms Jessica Hansen
Eco Impact Legal Consulting (Pty) Ltd.
P.O. Box 45070
CLAREMONT
7735

Tel : 021 671 1660

Email : admin@ecoimpact.co.za

PER E-MAIL / MAIL

Dear Ms Hansen

ACCEPTANCE OF THE SCOPING REPORT FOR THE PROPOSED DEVELOPMENT OF THE 300MW SOLAR PHOTOVOLTAIC ELECTRICITY GENERATION FACILITY ON PORTIONS 7 AND 3 OF FARM 187 OLYVENKOLK, NEAR KENHARDT, NORTHERN CAPE PROVINCE

The Scoping Report (SR) and Plan of Study for Environmental Impact Assessment (PoSEIA) dated October 2018 and received by this Department on 11 October 2018 refer.

The Department has reviewed the SR and is satisfied that it complies with the minimum requirements of the National Environmental Management Act, Act Number 107 of 1998 (as amended) (NEMA), Environmental Impact Assessment (EIA) Regulations, 2014 (as amended). The SR is hereby accepted by the Department in terms of Regulation 22(a) of the NEMA, EIA Regulations, 2014 (as amended). You may proceed with the EIA process in accordance with the tasks contemplated in the PoSEIA and the requirements of the EIA Regulations, 2014 (as amended).

All comments and recommendations made by all stakeholders and Interested and Affected Parties (I&APs) in the draft SR and submitted as part of the final SR must be taken into consideration when preparing an Environmental Impact Assessment report (EIAr) 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 EIAr and Environmental Management Programme (EMPr).

Please ensure that the EIAr and EMPr comply with Appendix 3 and Appendix 4 of Regulation 2014 (as amended), before submission to the Department. You are also required to address all issues raised by organs of state and I&APs prior to the submission of the EIAr to the Department.

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

In addition, the following additional information is required for the EIAr:

- i. The draft EIAr must provide an assessment of the impacts and mitigation measures for each of the listed activities applied for.

- ii. Should the specialist studies provide more detail regarding any of the project activity thresholds, please ensure that the project activity descriptions are amended accordingly in the application form and EIAr.
- iii. Activity 14 of GN R.985 (as amended): The description fails to explain how the proposed development triggers this activity. You have indicated that the development triggers Activity 14(ii). Please further indicate which sub-activities (a/b/c) (i/ii/iii) (aa/bb/cc etc.) are applicable under the relevant province and elaborate in the description column.
- iv. The listed activities represented in the EIAr and the application form must be the same and correct.
- v. Please verify that the expansion of the Aries substation to receive the generated electricity into the ESKOM grid does not trigger any listed activities.
- vi. The EIAr phase must provide detailed information on the power line alternatives and must assess the impacts of the power line together with the impacts of the solar facility.
- vii. The EIAr must provide the technical details for the proposed facility in a table format as well as their description and/or dimensions. A sample for the minimum information required is listed under point 2 of the EIA information required for PV facilities below.
- viii. The EIAr must provide coordinate points (start, middle and end) for all linear activity alternatives. These coordinates must include all the bend points of the route from the starting point to the finishing point, and must be in degrees minutes and seconds.
- ix. Please ensure that the Environmental Assessment Practitioner (EAP) and Specialist declarations of interest are completed in full and that they are signed.
- x. The EIAr must provide the following:
 - Clear indication of the envisioned area for the proposed PV facility; i.e. placing of solar panels and all associated infrastructure should be mapped at an appropriate scale.
 - Clear description of all associated infrastructure. This description must include, but is not limited to the following:
 - Power lines;
 - Internal roads infrastructure; and;
 - All supporting onsite infrastructure such as laydown area, guard house and control room etc.
 - All necessary details regarding all possible locations and sizes of the proposed satellite substation and the main substation.
- xi. A hydrological assessment must be conducted as part of the proposed Ecological Impact Assessment in section 8.6.1 of the final SR, and must also assess the impacts on the surface hydrology of the proposed development area. The terms of reference for the study must include, *inter alia* the following:
 - Identification and sensitivity rating of all surface water courses for the impact phase of the proposed development;
 - Identification, assessment of all potential impacts to the water courses and suggestion of mitigation measures; and,
 - Recommendations on the preferred placement of the facility and all associated infrastructure and preference must be provided to the avoidance of the watercourses on the property.
- xii. Section 8.6.1 of the final SR states that an Avifaunal Assessment will be conducted as part of the EIAr. The terms of reference for the study must include, *inter alia* the following:
 - Determine the impacts that the proposed activity (including the power line) may have on avifauna;
 - Must cover at a minimum the summer and winter seasons;
 - The assessment must include mitigation measures to discourage the avifauna from entering the solar field as well and limit nesting and breeding grounds within the solar field.
 - The avifaunal specialist study must be expanded to include vantage point surveys as well as flight paths to consider how birds will move through the property. The study must also propose adequate mitigation measures to reduce the facilities impacts on avifauna frequenting the area.
 - Assess the cumulative impact on avifauna within the site and within the local area.

- xiii. A soils, land use and land capability assessment must be conducted as part of the proposed Agricultural Impact Assessment in section 8.6.2 of the final SR. The terms of reference for the soils, land use and land capability assessment must also include, *inter alia* the following:
- Assessment of the loss of agricultural land;
 - The current state of agricultural activities on land;
 - The impact of the loss of agricultural land within the property as well as the cumulative impact of the loss of agricultural land on the site and within the area.
- xiv. The specialist studies conducted must be specific to a PV facility and must assess cumulative impacts of other existing and proposed Renewable Energy developments in the area. The EIA must also include a cumulative impact environmental statement on whether the proposed project should proceed or not.
- xv. It is noted that the Plan of Study for EIA does not include a Noise Impact Assessment. This needs to be included as part of the assessment during the EIA phase. Otherwise, the EAP must provide a motivation if this study is not required by the proposed development.
- xvi. Where specialist studies are conducted in-house or by a specialist other than a suitably qualified specialist in the relevant field, such specialist reports must be peer reviewed by a suitably qualified external specialist in the relevant field. The terms of reference for the peer review must include:
- A CV clearly showing expertise of the peer reviewer;
 - Acceptability of the terms of reference;
 - Is the methodology clearly explained and acceptable;
 - Evaluate the validity of the findings (review data evidence);
 - Discuss the suitability of the mitigation measures and recommendations;
 - Identify any shortcomings and mitigation measures to address the shortcomings;
 - Evaluate the appropriateness of the reference literature;
 - Indicate whether a site-inspection was carried out as part of the peer review; and
 - Indicate whether the article is well-written and easy to understand.
- xvii. Please note that it is the responsibility of the EAP to identify all the relevant impacts as well specialist studies that needs to be conducted.
- xviii. The EIA must also include a comments and response report in accordance with Appendix 2 of the EIA Regulations, 2014 (as amended). Please refrain from summarising comments made by I&APs. All comments from I&APs must be copied *verbatim* and responded to clearly. Please note that a response such as "noted" is not regarded as an adequate response to an I&AP's comments.
- xix. A copy of the final site layout map and alternatives. 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:
- Solar panel position and its associated infrastructure;
 - Permanent laydown area 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;
 - Substation(s) and/or transformer(s) sites including their entire footprint;
 - Connection routes (including pylon positions) to the distribution/transmission network;
 - All existing infrastructure on the site, especially roads;
 - Buffer areas;
 - Buildings, including accommodation; and
 - All "no-go" areas.
- xx. An environmental sensitivity map indicating environmental sensitive areas and features identified during the EIA process.

- xxi. A map combining the final layout map superimposed (overlain) on the environmental sensitivity map.
- xxii. 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:

Environment House
473 Steve Biko Road
Pretoria

For Attention: Muhammad Essop
Integrated Environmental Authorisations
Strategic Infrastructure Developments
Telephone Number: (012) 399 9406
Email Address: MEssop@environment.gov.za

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

- i. All recommendations and mitigation measures recorded in the EIAr and the specialist studies conducted.
- ii. The final site layout map.
- iii. An environmental sensitivity map indicating environmental sensitive areas and features identified during the EIA process.
- iv. A map combining the final layout map superimposed (overlain) on the environmental sensitivity map.
- v. 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.
- vi. 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.
- vii. 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.
- viii. An open space management plan to be implemented during the construction and operation of the facility.
- ix. 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.

- x. 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.
- xi. A fire management plan to be implemented during the construction and operation of the facility.
- xii. 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.
- xiii. 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.
- xiv. Measures to protect hydrological features such as streams, rivers, pans, wetlands, dams and their catchments, and other environmental sensitive areas from construction impacts including the direct or indirect spillage of pollutants.

The EAP must provide detailed motivation if any of the above requirements is not required by the proposed development and not included in the EMPr.

You are hereby reminded that should the EIAr fail to comply with the requirements of this acceptance letter, the proposed development will be refused in accordance with Regulation 24(1) (b) of the EIA Regulations, 2014 (as amended).

You are hereby reminded to comply with the requirements of Regulation 45 of the NEMA, EIA Regulations, 2014 (as amended) with regard to the time period allowed for complying with the requirements of the Regulations and, Regulations 43 and 44 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.

You are requested to submit two (2) electronic copies (1 CD & 1 USB) and two (2) hard copies of the EIAr to the Department as per Regulation 23(1) of the EIA Regulations, 2014 (as amended).

Please also find attached information that must be used in the preparation of the EIAr. This will enable the Department to speedily review the EIAr 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, which stipulates that no activity may commence prior to an Environmental Authorisation being granted by the Department.

Yours faithfully



Mr Sabelo Malaza
Chief Director: Integrated Environmental Authorisations
Department of Environmental Affairs
Signed by: Ms. Pumeza Mngcita
Designation: Deputy Director: IPS & S24G
Date: 26/11/2018

cc:	Solar Energy Land (Pty) Ltd.	Michael Stoeltzing	Tel: 021 864 3774	Email: michael@bakenhof.co.za
	Kai !Garib Local Municipality	Municipal Manager	Tel: 054 461 6328	Email: mm@kaigarib.gov.za

A. EIA INFORMATION REQUIRED FOR PHOTOVOLTAIC SOLAR POWER (PV) 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.)
- PV 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. Sample of technical details for the proposed facility

Component	Description / dimensions
Height of PV panels	
Area of PV	
Number of inverters required	
Area occupied by inverter / transformer stations / substations	
Capacity of on-site substation	
Area occupied by both permanent and construction laydown areas	
Area occupied by buildings	
Length of internal roads	
Width of internal roads	
Proximity to grid connection	
Height of fencing	
Type of fencing	

3. 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 (preferred areas for facility and infrastructure)
 - between 8% and 12% slope (potentially sensitive to facility and infrastructure)
 - between 12% and 14% slope (highly sensitive to facility and infrastructure)
 - steeper than 18 % slope (unsuitable for facility and infrastructure)
- A site development proposal map(s)/layer(s) that indicate:
 - 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 of power tower and heliostats 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)
 - Buildings including accommodation

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

4. 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

5. 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 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.

Jessica

From: John Geeringh <GeerinJH@eskom.co.za>
Sent: Monday, 29 October 2018 2:50 PM
To: admin@ecoimpact.co.za
Cc: Martina Phiri
Subject: SEF on Portion 6 of Farm 187, Olyvenkolk
Attachments: Eskom requirements for work in or near Eskom servitudes SOLAR (3).doc; Renewable Energy Generation Plant Setbacks to Eskom Infrastructure - Signed.pdf

Please find attached Eskom requirements for developments at or near Eskom infrastructure and servitudes. Please send me KMZ files of the proposed affected property and layouts as well as the proposed power line connection to Aries substation. Please copy Martina in the response. She is the Eskom Land Development Programme Manager for the Northern Cape area and her section may have some projects in the area. Once we receive the KMZ files, Eskom will be in a better position to respond with some comments.

Kind regards

John Geeringh (Pr Sci Nat)
Senior Consultant Environmental Management
Group Capital Division: Land Development and Management
Megawatt Park, D1Y42, Maxwell Drive, Sunninghill, Sandton.
P O Box 1091, Johannesburg, 2000.
Tel: 011 516 7233
Cell: 083 632 7663
Fax: 086 661 4064
E-mail: john.geeringh@eskom.co.za



NB: This Email and its contents are subject to the Eskom Holdings SOC Ltd EMAIL LEGAL NOTICE which can be viewed at http://www.eskom.co.za/Pages/Email_Legal_Spam_Disclaimer.aspx

Eskom requirements for work in or near Eskom servitudes.


1. Eskom's rights and services must be acknowledged and respected at all times.
2. Eskom shall at all times retain unobstructed access to and egress from its servitudes.
3. Eskom's consent does not relieve the developer from obtaining the necessary statutory, land owner or municipal approvals.
4. Any cost incurred by Eskom as a result of non-compliance to any relevant environmental legislation will be charged to the developer.
5. If Eskom has to incur any expenditure in order to comply with statutory clearances or other regulations as a result of the developer's activities or because of the presence of his equipment or installation within the servitude restriction area, the developer shall pay such costs to Eskom on demand.
6. The use of explosives of any type within 500 metres of Eskom's services shall only occur with Eskom's previous written permission. If such permission is granted the developer must give at least fourteen working days prior notice of the commencement of blasting. This allows time for arrangements to be made for supervision and/or precautionary instructions to be issued in terms of the blasting process. It is advisable to make application separately in this regard.
7. Changes in ground level may not infringe statutory ground to conductor clearances or statutory visibility clearances. After any changes in ground level, the surface shall be rehabilitated and stabilised so as to prevent erosion. The measures taken shall be to Eskom's satisfaction.
8. Eskom shall not be liable for the death of or injury to any person or for the loss of or damage to any property whether as a result of the encroachment or of the use of the servitude area by the developer, his/her agent, contractors, employees, successors in title, and assignees. The developer indemnifies Eskom against loss, claims or damages including claims pertaining to consequential damages by third parties and whether as a result of damage to or interruption of or interference with Eskom's services or apparatus or otherwise. Eskom will not be held responsible for damage to the developer's equipment.
9. No mechanical equipment, including mechanical excavators or high lifting machinery, shall be used in the vicinity of Eskom's apparatus and/or services, without prior written permission having been granted by Eskom. If such permission is granted the developer must give at least seven working days' notice prior to the commencement of work. This allows time for arrangements to be made for supervision and/or precautionary instructions to be issued by the relevant Eskom Manager

Note: Where and electrical outage is required, at least fourteen work days are required to arrange it.

10. Eskom's rights and duties in the servitude shall be accepted as having prior right at all times and shall not be obstructed or interfered with.
11. Under no circumstances shall rubble, earth or other material be dumped within the servitude restriction area. The developer shall maintain the area concerned to Eskom's satisfaction. The developer shall be liable to Eskom for the cost of any remedial action which has to be carried out by Eskom.
12. The clearances between Eskom's live electrical equipment and the proposed construction work shall be observed as stipulated by *Regulation 15 of the Electrical Machinery Regulations of the Occupational Health and Safety Act, 1993 (Act 85 of 1993)*.
13. Equipment shall be regarded electrically live and therefore dangerous at all times.
14. In spite of the restrictions stipulated by Regulation 15 of the Electrical Machinery Regulations of the Occupational Health and Safety Act, 1993 (Act 85 of 1993), as an additional safety precaution, Eskom will not approve the erection of houses, or structures occupied or frequented by human beings, under the power lines or within the servitude restriction area.
15. Eskom may stipulate any additional requirements to highlight any possible exposure to Customers or Public to coming into contact or be exposed to any dangers of Eskom plant.
16. It is required of the developer to familiarise himself with all safety hazards related to Electrical plant.
17. Any third party servitudes encroaching on Eskom servitudes shall be registered against Eskom's title deed at the developer's own cost. If such a servitude is brought into being, its existence should be endorsed on the Eskom servitude deed concerned, while the third party's servitude deed must also include the rights of the affected Eskom servitude.

John Geeringh (Pr Sci Nat)

Senior Consultant Environmental Management
Eskom GC: Land Development

	<p style="text-align: center;">SCOT</p>	<p style="text-align: center;">Technology</p>
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Title: **Renewable Energy Generation Plant Setbacks to Eskom Infrastructure** Unique Identifier: **240-65559775**

Alternative Reference Number: **N/A**

Area of Applicability: **Power Line Engineering**

Documentation Type: **Guideline**

Revision: **0**

Total Pages: **8**

Next Review Date: **N/A**

Disclosure Classification: **CONTROLLED DISCLOSURE**

Compiled by



J W Chetty
Mechanical Engineer

Date: 20/02/2014

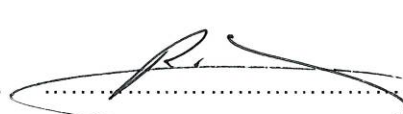
Approved by



V Naidoo
Chief Engineer (Lines)

Date: 24/02/2014

Authorised by



R A Vajeth
Acting Snr Manager (Lines)

Date: 27/2/2014

Supported by SCOT/SC



R Vajeth
SCOT/SC/ Chairperson

Date: 27/2/2014

PCM Reference: 240-65132732 **LINE ENGINEERING SERVICES**

SCOT Study Committee Number/Name : **OVERHEAD LINES**

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EXECUTIVE SUMMARY

In recent decades, the use of wind turbines, concentrated solar plants and photovoltaic plants have been on the increase as it serves as an abundant source of energy. This document specifies setbacks for wind turbines and the reasons for these setbacks from infrastructure as well as setbacks for concentrated solar plants and photovoltaic plants. Setbacks for wind turbines employed in other countries were compared and a general setback to be used by Eskom was suggested for use with wind turbines and other renewable energy generation plants.

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1. INTRODUCTION

During the last few decades, a large amount of wind turbines have been installed in wind farms to accommodate for the large demand of energy and depleting fossil fuels. Wind is one of the most abundant sources of renewable energy. Wind turbines harness the energy of this renewable resource for integration in electricity networks. The extraction of wind energy is its primary function and thus the aerodynamics of the wind turbine is important. There are many different types of wind turbines which will all exhibit different wind flow characteristics. The most common wind turbine used commercially is the Horizontal Axis Wind Turbine. Wind flow characteristics of this turbine are important to analyse as it may have an effect on surrounding infrastructure.

Wind turbines also cause large turbulence downwind that may affect existing infrastructure. Debris or parts of the turbine blade, in the case of a failure, may be tossed behind the turbine and may lead to damage of infrastructure in the wake path.

This document outlines the minimum distances that need to be introduced between a wind turbine and Eskom infrastructure to ensure that debris and / or turbulence would not negatively impact on the infrastructure.

Safety distances of wind turbines from other structures as implemented by other countries were also considered and the reasons for their selection were noted.

Concentrated solar plants and photovoltaic plants setbacks away from substations were also to be considered to prevent restricting possible power line access routes to the substation.

2. SUPPORTING CLAUSES

2.1 SCOPE

This document provides guidance on the safe distance that a wind turbine should be located from any Eskom power line or substation. The document specifies setback distances for transmission lines (220 kV to 765 kV), distribution lines (6.6 kV to 132 kV) and all Eskom substations. Setbacks for concentrated solar plants and photovoltaic plants are also specified away from substations.

2.1.1 Purpose

Setbacks for wind turbines and power lines / substations are required for various reasons. These include possible catastrophic failure of the turbine blade that may release fragments and which may be thrown onto nearby power lines that may result in damage with associated unplanned outages. Turbulence behind the turbine may affect helicopter flight during routine Eskom live line maintenance and

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inspections that may lead to safety risk of the aircraft / personnel. Concentrated solar plants and photovoltaic plants setback away from substations were required to prevent substations from being boxed in by these renewable generation plants limiting line route access to the substations.

2.1.2 Applicability

This document is applicable to the siting of all new and existing wind turbines, concentrated solar plants and photovoltaic plants near power lines and substations.

2.2 NORMATIVE/INFORMATIVE REFERENCES

2.2.1 Normative

1. <http://www.envir.ee/orb.aw/class=file/action=preview/id=1170403/Hiiumaa+turbulence+impact+EMD.pdf>.
2. <http://www.energy.ca.gov/2005publications/CEC-500-2005-184/CEC-500-2005-184.PDF>
3. <http://www.adamscountywind.com/Revised%20Site/Windmills/Adams%20County%20Ordinance/Adams%20County%20Wind%20Ord.htm>
4. http://www.dsireusa.org/incentives/incentive.cfm?Incentive_Code=PA11R&RE=1&EE=1
5. <http://www.wind-watch.org/documents/european-setbacks-minimum-distance-between-wind-turbines-and-habitations/>
6. <http://www.publications.parliament.uk/pa/ld201011/ldbills/017/11017.1-i.html>
7. http://www.caw.ca/assets/pdf/Turbine_Safety_Report.pdf
8. Rogers J, Slegers N, Costello M. (2011) A method for defining wind turbine setback standards. Wind energy 10.1002/we.468

2.2.2 Informative

None

2.3 DEFINITIONS

Definition	Description
Setback	The minimum distance between a wind turbine and boundary line/dwelling/road/infrastructure/servitude etc.
Flicker	Effect caused when rotating wind turbine blades periodically cast shadows
Tip Height	The total height of the wind turbine ie. Hub height plus half rotor diameter (see Figure1)

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2.3.1 Disclosure Classification

Controlled disclosure: controlled disclosure to external parties (either enforced by law, or discretionary).

2.4 ABBREVIATIONS

Abbreviation	Description
None	

2.5 ROLES AND RESPONSIBILITIES

All personnel involved in the positioning wind turbines, concentrated solar plants and photovoltaic plants near power lines/substations must follow the setbacks outlined in this guideline.

2.6 PROCESS FOR MONITORING

Approval by Eskom in writing.

2.7 RELATED/SUPPORTING DOCUMENTS

None

3. DOCUMENT CONTENT

3.1 INTERNATIONAL SETBACK COMPARISON

Wind Turbine setbacks employed by various countries were considered. It was found that setbacks were determined for various reasons that include noise, flicker, turbine blade failure and wind effects. The distances (setbacks) varied based on these factors and were influenced by the type of infrastructure

Wind turbine setbacks varied for roads, power lines, dwellings, buildings and property and it was noted that the largest setbacks were employed for reasons of noise and flicker related issues [1-7]. Very few countries specified setbacks for power lines.

The literature survey [1-7], yielded information about studies and experiments were conducted to determine the distance that a broken fragment from a wind turbine might be thrown. Even though of low probability of hitting a power line [5.0×10^{-5}]^[8], the distances recorded were significant [750m]^[8]

Setbacks were thus introduced to prevent any damage to Eskom infrastructure.

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Wind turbines may also cause changes in wind patterns with turbulent effects behind the hub. These factors dictate the wind turbine setbacks specified in this document.

Concentrated solar plants and photovoltaic plants also can limit access into the substation for power lines of all voltages. A setback distance must therefore be employed to prevent the substation from being boxed in by these generation plants. These setback distances are specified in this document.

3.2 ESKOM REQUIRED SETBACKS

- Eskom requires a setback distance of 3 times the tip height of the wind turbine from the edge of the closest Eskom servitude (including vacant servitudes) for transmission lines.
- Eskom requires a setback distance of 1 times the tip height of the wind turbine from the edge of the closest Eskom servitude (including vacant servitudes) for distribution Lines.
- Eskom must be informed of any proposed wind turbine, concentrated solar plants and photovoltaic activity within a 5 km radius of a substation. No wind turbine structure shall be built within a 2 km radius of the closest point of the substation. Where concentrated solar plants and photovoltaic structures fall within a 2 km radius of the closest point of a substation, Eskom should be informed in writing during the planning phase of the construction of such plant or structure.
- Applicants must show that Eskom radio telecommunication systems (mainly microwave systems) will not be affected in any way by wind turbines.

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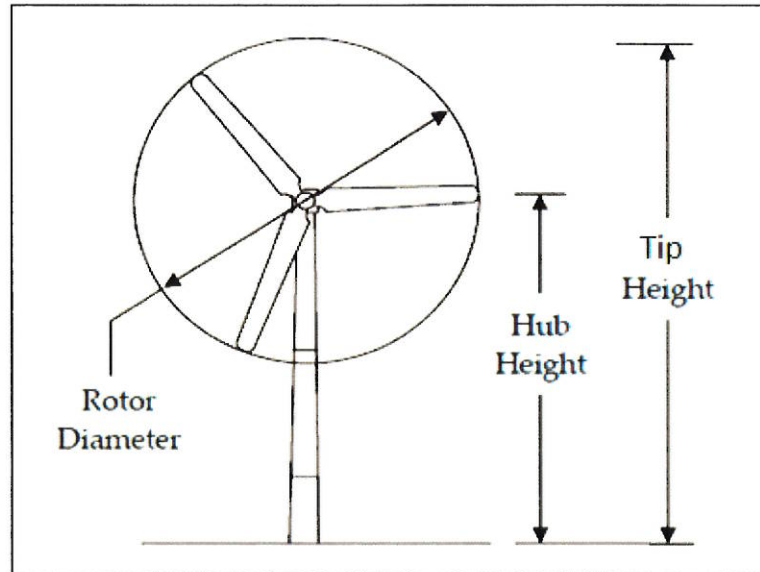


Figure 1: Horizontal Axis Wind Turbine ^[2]

4. AUTHORISATION

This document has been seen and accepted by:

Name & Surname	Designation
V Naidoo	Chief Engineer
Dr P H Pretorius	Electrical Specialist
J Geeringh	Snr Consultant Environ Mngt
B Haridass	Snr Consultant Engineer
R A Vajeth	Acting Snr Manager (Lines)

5. REVISIONS

Date	Rev.	Compiler	Remarks
November 2013	0	J W Chetty	First Publication - No renewable energy generation plant setback specification in existence

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6. DEVELOPMENT TEAM

The following people were involved in the development of this document:

Jonathan W Chetty (Mechanical Engineer)

Vivendhra Naidoo (Chief Engineer)

Dr Pieter H Pretorius (Electrical Specialist)

John Geeringh (Snr Consultant Environ Mngt)

Bharat Haridass (Snr Consultant Engineer)

Riaz A Vajeth (Acting Snr Manager (Lines))

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Ms. Jessica Hansen
Eco Impact Legal Consulting (Pty) Ltd
P.O. Box 45070
Claremont, 7735

Email: admin@ecoimpact.co.za

Date: 20 December 2018

Dear Ms. Hansen

Re: Final Scoping for 300MW Photovoltaic Electricity Generation Facility on Portions 6 and 3 of Farm 187 Olyvenkolk, Kenhardt District.

This letter is in response to the final scoping report of the above photovoltaic electricity generation facility and the potential impact it has on the SKA project. We have considered the proposed development, and conducted a basic high level assessment to determine the potential impact. We have concluded as follows:

- i. Based on the location provided on the scoping report, the facility will generate medium-to-low risk of interference on the nearest telescope (SKA005) on the SKA spiral arm.
- ii. The preliminary assessment based on the SANS211 limits, indicates that the emissions levels from the facility will marginally fall below the required spectral density threshold for protection of the telescope against electromagnetic interference.
- iii. It is advisable that you ensure that electromagnetic emissions do not exceed limits prescribed in SANS211 standards.

Any radio communication services and equipment located within the declared Karoo Central Astronomy Advantage Area shall be required to comply with the relevant regulations as promulgated.

SARAO does not object the project at the current stage, however, we would like to be kept informed of the developments with this project and reserves the right to further risk assessments at a later stage.

Regards,



Mr Selaelo Matlhane
Spectrum & Telecommunication Manager
South African Radio Astronomy Observatory (SARAO)
Tel: 011 442 2434
Email: smatlhane@ska.ac.za

www.ska.ac.za

The South African Radio Astronomy Observatory (SARAO) is a National Facility managed by the National Research Foundation and incorporates all national radio astronomy telescopes and programmes. SARAO is responsible for implementing the Square Kilometre Array (SKA) in South Africa.

PUBLIC OPEN DAY 23 August 2018 @ KENHARDT HOTEL FROM 16H00 TO 18H00

Application for Environmental Authorization. Government Notice Regulations 982, GNR 983, GNR 984 AND GNR 985 AS AMENDED, National Environment Management Act 1998. 400MW Photovoltaic Electricity Generation Facility on Portions 7 and 3 of Farm 187 Olyvenkolk, Kenhardt District.

Name:

Telephone and email address:

Comments:

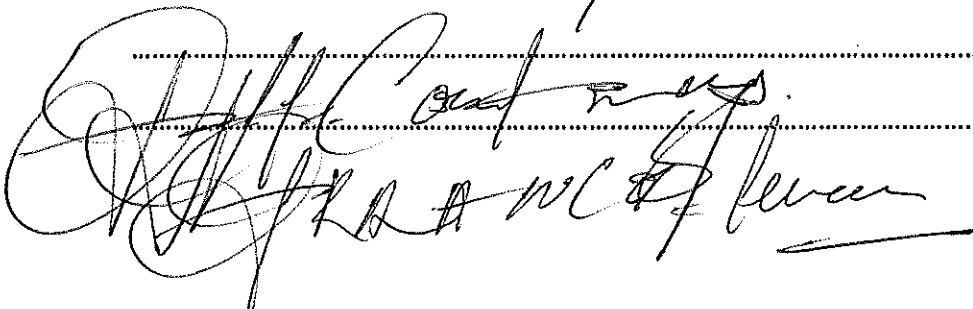
PHOLMAN ENTERPRISES PTY (LTD).
SPORT 63 KENHARDT
CELL - HENNY - 064 086 4892.
J. PHOLMAN - 060 321 9675

{
Cain Nel - 054 691 0044 - Kenhardt
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WALTER VAN EEDEN - 0736061974 - 0725072719
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CBHSOLOR (PTY) LTD
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FRANS TITUS TRANSPORT
titusunion@gmail.com
TRANSPORT / WASTE.


Frans Titus

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①

Name: MARSHALL MATTHYS (MAWILE CONSTRUCTION AND PROJECTS)

Telephone and email address: marshallmatthys@gmail.com - 0835732960

Comments:

.....

②

LTWELLEN STURMAN (LIVINGSTONE CONSTRUCTION AND PROJECTS)

ltwellenstoo
ltwellenleeroysturman6@gmail.com (018 3915787).

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① Name: HENRIK FORTUIN (H F Recycle (KH))
Telephone and email address: NOORD STR 12 KENHARDT. TEL 0135701438

Comments:

② Nathan Davis (Kenhardt Recycle Works Ltd)
clavisnea@gmail.com
Cell: Nathan Sur. 0833644257
Nathan Sur. 0499861819
Adres: Siikef Str. 1748
Kenhardt, 8900

④ P. VAN WYK
S.A. PEJ ENTERPRISE & PROJECTS PTY(LTD)
JOHNNY - 0717188033.
PIETER - 0839436000

⑤ WILSON ENTERPRISE
JAKAVANDAS GRANT 1673 TEL. 0765967220
Kenhardt 8900
EMAIL E.VANNEEL30@GMAIL.COM

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Name:

Telephone and email address:

Comments:

① Johannes Tsele / DJ Tsele CONTR (Demald)

df tsele 78 tsele @ gmail . com 0734084632

② QUINTON STEVENS @ SMOKEY TRAINING. GMAIL. COM 0732831990
GENERAL

Patricia K Louw Wyk / PR Engineering Consultants (PTY) LTD

(csd nr:)
MAAA 0546401 / constructionpr1 @ gmail . com 0611559652

NATANO VAN EEDEN / VAN EEDEN'S PTX. LTD. 076096572 (Construction)

OTNIEL WILLIAMS / E.O.W (PTY) LTD. (Construction)

Contact number: Elby Williams 084 8896961

Melony Beukes 061 721 1366

~~SAMEA~~ Sameul Magal - Magal Tyre Repair

- sameulmagal @ gmail . com

- 0734580714

MORGAN JONNSONS - GRIP SOLAR SOLUTIONS PTX LTD

- MORGAN. ALMOR 08 @ GMAIL . COM

- 060 487 2355

PUBLIC OPEN DAY 23 August 2018 @ KENHARDT HOTEL FROM 16H00 TO 18H00

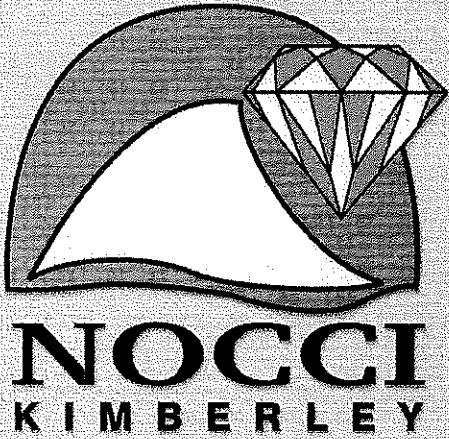
Application for Environmental Authorization. Government Notice Regulations 982, GNR 983, GNR 984 AND GNR 985 AS AMENDED, National Environment Management Act 1998. 400MW Photovoltaic Electricity Generation Facility on Portions 7 and 3 of Farm 187 Olyvenkolk, Kenhardt District.

Name:

Telephone and email address:

Comments:

Jumatha S/O J. Mail. Com
Tel 083 800 8116
TRANSPORTS



Certificate of Membership

This is to Certify that
Hiermee word Gesertifiseer dat

Kenhardt Business Chamber

is a member of the
Northern Cape Chamber of
Commerce & Industry

'n lid is van die
Noordkaap Kamer van Koophandel
en Industrie

PRESIDENT

Northern Cape Chamber of Commerce & Industry
Noordkaap Kamer van Koophandel & Industrie
KIMBERLEY

04/06/2018

DATE

CEO

AFFILIATED TO SACCI/AHI

STRAUGHAN INC.
PROPERTY ATTORNEYS

Polman
Enterprises

Nicolaas Hanekom

Hennie Apies

064 086 4892

Kenhardt Besigheids
kamer

2020 - Kenhad mense
- iets nie reg? nie
- Kontrakteurs?
10 - ? nie Kenhad
mense me

Munisipaliteit → Raad
- Sub kontraktor

- Voortel Munisipaliteit?
- Reeds Kontrakteur werk
naam op lys

Engels werksoek

- F. Human

- weet → werkers/das

AI April → ganster

Combe company =

Goedgekeur
Konstruktie - Kerkhof mene

(SD) = Noordkoop

- Privaat basighede ✓
- Stuktuur

- 2 mene ✓ -

- SB 9 5 - nie
werk nie gevermat