

EIA REPORT

APPENDIX G:

Copies of Correspondence from
I&APs during Scoping and
EIA Phases

Scoping and Environmental Impact Assessment for the Proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

Copies of Correspondence from I&APs during the Project Initiation Phase

From: Samantha De la Fontaine <sdelafontaine@gmail.com>
To: <RAbed@csir.co.za>
CC: Elsabe Swart <elsabe.dtec@gmail.com>
Date: 29/07/2015 13:37
Subject: I&AP: Three proposed solar PV facilities NE of Kenhardt

Dear Rohaida

Kindly register me as an I&AP for the proposed development with CSIR
Reference: EMS0102/SCATEC/2015.

Kind regards

Samantha

Samantha De la Fontaine
District Ecologist (Candidate Scientist)

Northern Cape Department of Environment and Nature Conservation
Provincial Building (First Floor)

Corner of Rivier & Nelson Mandela Road
Upington
8800

E-mail: sdelafontaine@gmail.com <sdelafontaine@gmail.com>

From: "Karen Low" <karen@mulilo.com>
To: "'Rohaida Abed'" <RAbed@csir.co.za>
Date: 30/07/2015 09:27
Subject: RE: Notice of BA and EIA Process - Solar PV Facilities and Associated Electrical Infrastructure, Northern Cape
Attachments: SBIZHUB10815073009220.pdf

Dear Rohaida,

Attached please find the completed comment and registration form.

Regards,

Karen

Karen Low (*Pri. Sci. Nat.*)

Environmental Manager



Tel: +27 21 934 5278 **Fax:** +27 21 935 0505 **Email:** karen@mulilo.com

Physical: 303c Execujet Business Centre Tower Road Cape Town International Airport South Africa 7525

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

From: Rohaida Abed [mailto:RAbed@csir.co.za]
Sent: 29 July 2015 4:01 pm
To: Rohaida Abed <RAbed@csir.co.za>
Subject: Notice of BA and EIA Process - Solar PV Facilities and Associated Electrical Infrastructure, Northern Cape

Dear Stakeholders and Interested and Affected Parties

NOTICE OF BASIC ASSESSMENT AND SCOPING AND ENVIRONMENTAL IMPACT ASSESSMENT FOR THE PROPOSED DEVELOPMENT OF THREE SOLAR PHOTOVOLTAIC FACILITIES AND ASSOCIATED ELECTRICAL INFRASTRUCTURE NORTH-EAST OF KENHARDT, NORTHERN CAPE PROVINCE

Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

Competent Authority: National Department of Environmental Affairs

CSIR Reference: EMS0102/SCATEC/2015

This e-mail correspondence serves to inform you of the initiation of a Basic Assessment (BA) Process and Scoping and Environmental Impact Assessment (EIA) Process for the above-mentioned proposed project, located approximately 80 km south of Upington and 30 km north-east of Kenhardt within the !Kheis Local Municipality, Northern Cape Province. The Project Applicant is Scatec Solar SA 163 (PTY) Ltd (hereinafter referred to as Scatec Solar). The CSIR has been appointed by Scatec Solar to undertake the required BA Process, and Scoping and EIA Process.

A full Scoping and EIA Process is required for the development of three 75 Megawatt (MW) Solar Photovoltaic (PV) power generation facilities on the remaining extent of Onder Rugzeer Farm 168. A separate BA Process is also required and will be undertaken for the development of three transmission lines and the connection points to the Eskom Nieuwehoop Substation (which is currently being constructed) on the remaining extent of Portion 3 of Gemsbok Bult Farm 120.

The proposed 75 MW Solar PV facilities and transmission lines are located within the same geographical area and constitute the same type of activity; hence an integrated Public Participation Process will be undertaken. However, separate Applications for Environmental Authorisation will be lodged with the National Department of Environmental Affairs (DEA) for each proposed 75 MW Solar PV facility and transmission line. Furthermore, separate BA, Scoping and EIA Reports will be compiled for each project, which will be referred to as:

Scoping and EIA Processes: Proposed 75 MW Solar PV Facilities	BA Processes: Proposed 132 kV Transmission Lines
- Kenhardt PV 1	- Kenhardt PV 1 – Transmission Line
- Kenhardt PV 2	- Kenhardt PV 2 – Transmission Line
- Kenhardt PV 3	- Kenhardt PV 3 – Transmission Line

The proposed projects are being assessed in terms of the National Environmental Management Act (Act 107 of 1998), as amended (NEMA), and the NEMA EIA Regulations, published in Government Notice (GN) R982, R983, R984 and R985 on 8 December 2014.

Please find attached the following:

- Background Information Document (BID);
- Letter 1 to Interested & Affected Parties (I&APs); and
- Comment and Registration Form.

The BID, which provides an overview of the proposed project, is being released to Stakeholders and I&APs for a 30-day comment period extending from **30 July 2015 to 31 August 2015**. Hard copies of the above-mentioned documents have also been sent to those of you for which postal addresses are available.

In addition, the above-mentioned project information can be accessed at the following website: <http://www.csir.co.za/eia/ScatecSolarPV/>

Kindly ensure that all comments are submitted to the CSIR Project Manager (details provided below) by **31 August 2015**.

Thank you and kind regards,

Rohaida Abed

CSIR - Environmental Management Services
P. O. Box 17001, Congella, Durban, 4013
Tel: 031 242 2300
Fax: 031 261 2509
Email: RAbed@csir.co.za

Beste Belanghebbende en Geïnteresseerde Party

GESAMENTLIKE KENNISGEWING VAN BASIESE EN OMGEWINGSIMPAKEVALUERINGSPROSESSE VIR DIE VOORGESTELDE ONTWIKKELING VAN DRIE SONKRAGAAANLEGTE EN ELEKTRIESE INFRASTRUKTUUR NOORD-OOS VAN KENHARDT, NOORD- KAAP PROVINSIE

Bevoegde Owerheid: Die Nasionale Departement van Omgewingsake

WNNR/CSIR verwysingsnommer: EMS0102/SCATEC/2015

Hierdie e-pos korrespondensie se doel is om u in kennis te stel van die Basiese evaluerings- en Bestek en Omgewingsimpakevalueringproses vir die bogenoemde projekte, wat 80 km suid van Upington en 30 km noord-oos van Kenhardt in die !Kheis munisipaliteit voorgestel word. Die Aansoeker vir die projek is Scatec Solar SA 163 (PTY) Ltd ("Scatec Solar"). Die WNNR is aangestel deur Scatec Solar om die Basiese evaluerings- en Bestek en Omgewingsimpakevalueringproses vir die bogenoemde projekte uit te voer.

Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

'n Bestek en Omgewingsimpakevalueringproses word vereis vir elk van die drie 75 MW Fotovoltaiese (PV) sonkragfasiliteite wat op die plaas Restant van Onder Rugzeer 168 voorgestel word. Aparte Basiese evalueringprosesse word ook vereis vir die voorgestelde 132 kV kraglyne en die konneksiepunte aan die Eskom Nieuwehoop Substasie (wat tans gebou word) op die plaas Restant van Gedeelte 3 van Gemsbok Bult 120.

Aangesien die sonkragprojekte en die voorgestelde elektriese infrastruktuur in dieselfde geografiese area gebou gaan word en dieselfde tipe projekte is, word dit voorgestel dat 'n geïntegreerde Publieke Deelname Proses gedoen gaan word. Aparte aansoeke gaan by die Nasionale Departement van Omgewingsake ingedien word vir die verskillende projekte en aparte verslae sal ook vir elke projek saamgestel en uitgestuur word. Die projekte sal na verwys word as:

Bestek en Omgewingsimpakevalueringproses: Voorgestelde drie 75 MW PV sonkragprojekte	Basiese evalueringprosesse: Voorgestelde drie 132 kV kraglyne
- Kenhardt PV 1	- Kenhardt PV 1 – Transmission Line
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Die voorgestelde projekte sal ge-evalueer word volgens die Nasionale Omgewingsbeheer Wet, 1998 (Wet No 107 van 1998) (NEMA) en die Omgewingsimpakstudie (OIS) Regulasies soos gepubliseer in Staatskenningsgewing R982 in Staatskoerant No 38282 van 08 Desember 2014.

Vind asseblief aangeheg die volgende:

- Beskrywing van die projek (word na verwys as die "BID")
- Brief aan die Belanghebbende en Geïnteresseerde Partye (B&GP'e)
- Kommentaar en Registrasievorm

Die BID, wat dien as agtergrond van die projek, bevat 'n beskrywing van die projek, die gelyste aktiwiteite en is vir 30-dae beskikbaar vir oorsig en kommentaar (30 Julie 2015 - 31 Augustus 2015). 'n Harde kopie van die bogenoemde dokumente is ook gestuur aan diegene vir wie ons posadresse het. Inligting van die projek is ook beskikbaar op die projekwebtuiste: <http://www.csir.co.za/eia/ScatecSolarPV/>.

Ons versoek graag dat alle kommentaar aan die WNNR Projekbestuurder (kontakbesonderhede onder aangedui) teen 31 Augustus 2015 verskaf word.

By voorbaat dankie,

Rohaida Abed

CSIR - Environmental Management Services
Posbus 17001, Congella, Durban, 4013
Tel: 031 242 2300
Faks: 031 261 2509
E-pos: RAbed@csir.co.za

From: "Melanie Miles" <MelanieM@L2B.co.za>
To: <RAbed@csir.co.za>
Date: 03/08/2015 10:25
Subject: Proposed Development of Three Solar Photovoltaic Facilities and Associated Electrical Infrastructure

Good Morning,

Your company is currently conducting an Environmental Impact Assessment for the Proposed Development of Three Solar Photovoltaic Facilities and Associated Electrical Infrastructure North East of Kenhardt. Please could you forward me the BID for this application and register me as a Interested & Affected party?

Thanking you in anticipation of a favourable response.

Kindest Regards,

Melanie Miles
Content Researcher
MelanieM@L2B.co.za

Leads 2 Business (www.L2B.co.za)

0860836337 or 0860 TENDER
Fax: 033 343 5882

Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

From: "Mei Melinda (UPN)" <MeiM@dws.gov.za>
To: Rohaida Abed <RAbed@csir.co.za>
CC: Cloete Shaun <CloeteS@dws.gov.za>
Date: 04/08/2015 13:48
Subject: Hard Copies: Notice of BA and EIA Process - Solar PV Facilities and Associated Electrical Infrastructure, Northern Cape

Good morning Mr. Abed

Your notice received with regards to Basic Assessment; Scoping and Environmental Impact Assessment for the Proposed Development of the three Solar Photovoltaic Facilities and Associated Electrical Infrastructure; North-East of Kenhardt; Northern Cape is of reference.

DWS requires you to forward hard copies of the above mentioned project to either of the following address:

Physical Address:
Department Of Water and Sanitation
Louisvale Road Upington
8801

OR

Postal Address:
Department Of Water and Sanitation
Private Bag X 5912
Upington
8800

Your co-operation and assistance is highly appreciated.

With kind regards,

Melinda Mei
Senior Administration Clerk
Water Quality Management: Lower Orange Water Management Area
Tel: 054 338 5836
Fax: 054 334 0205
Mail: MeiM@dwa.gov.za



From: Rohaida Abed [mailto:RAbed@csir.co.za]
Sent: 29 July 2015 4:01 pm
To: Rohaida Abed <RAbed@csir.co.za>
Subject: Notice of BA and EIA Process - Solar PV Facilities and Associated Electrical Infrastructure, Northern Cape

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NOTICE OF BASIC ASSESSMENT AND SCOPING AND ENVIRONMENTAL IMPACT ASSESSMENT FOR THE PROPOSED DEVELOPMENT OF THREE SOLAR PHOTOVOLTAIC FACILITIES AND ASSOCIATED ELECTRICAL INFRASTRUCTURE NORTH-EAST OF KENHARDT, NORTHERN CAPE PROVINCE

Competent Authority: National Department of Environmental Affairs

CSIR Reference: EMS0102/SCATEC/2015

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Thank you and kind regards,

Rohaida Abed

CSIR - Environmental Management Services
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Tel: 031 242 2300
Fax: 031 261 2509
Email: RAbed@csir.co.za

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By voorbaat dankie,

Rohaida Abed

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Posbus 17001, Congella, Durban, 4013
Tel: 031 242 2300
Faks: 031 261 2509
E-pos: RAbed@csir.co.za

Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

From: "Marina Lourens Transnet Freight Rail SLD" <Marina.Lourens@transnet.net>
To: "RAbed@csir.co.za" <RAbed@csir.co.za>
Date: 19/08/2015 15:54
Subject: NOTICE OF BA and EIA Process - Solar PV Facilities and Associated Electrical Infrastructure, Northern Cape
Attachments: 2773_001.pdf

Letter regarding issued/concerns



19 August 2015

Rohaida Abed
CSIR
P.O. BOX 17001
Congella
DURBAN
4013

Gilbert Nortier
Depot Engineering Manager
Private Bag X11
Vredenburg
7380

Dear Rohaida

RE: ISSUES/CONCERNS TO PROPOSED DEVELOPMENT OF THREE SOLAR PHOTOVOLTAIC FACILITIES AND ASSOCIATED ELECTRICAL INFRASTRUCTURE NORTH-EAST OF KENHARDT, NORTHERN CAPE PROVINCE

Your e-mail of 29 July 2015 refers.

The following immediate concerns are:

Possible glare from the solar panels which may influence the Train Drivers and staff travel on the TFR service road.

Future concerns:


During construction, planned access routes to the facilities that might influence TFR (Dust on High Voltage Electrical Equipment).

The location of the High Voltage transmission lines.

Level crossing requirements (High risk of accidents).

During maintenance same issues as above.

Regards


GILBERT NORTIER
DEM

Transnet SOC Ltd	Carlton Centre	P.O. Box 72501
Registration Number	150 Commissioner	Parkview, Johannesburg
1990/000900/30	Street	South Africa, 2122
	Johannesburg	T +27 11 308 3001
	2001	F +27 11 308 2638

Directors: LC Mabaso (Chairperson) B Molefe* (Group Chief Executive) Y Forbes GJ Mahalela PEB Matheka N Moola ZA Nagdee VM Nkonyane
MR Seleke SD Shane BG Stagman PG Williams A Singh* (Group Chief Financial Officer)

*Executive

Group Company Secretary: ANC Ceiba

www.transnet.net

Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

From: <jdbhenrohn@gmail.com>
To: <RAbed@csir.co.za>
Date: 25/08/2015 08:41
Subject: CSIR REF EMS0102/SCATEC/2015

Good morning Rohaida
 I want to register for the facility because I support the project.

John de Bruin - Henrohn Security
 Sent from my Nokia phone

From: Adrian Tiplady <atiplady@ska.ac.za>
To: Rohaida Abed <RAbed@csir.co.za>
CC: Tshegofatso Monama <temonama@ska.ac.za>
Date: 02/09/2015 11:44
Subject: Re: Notice of BA and EIA Process - Solar PV Facilities and Associated Electrical Infrastructure, Northern Cape
Attachments: Letter reg Establishment of Kenhardt 3PV CSIR.pdf

Dear Rohaida,

Please find attached comment.

Regards,

Adrian

On 29/07/2015 4:01 PM, Rohaida Abed wrote:

Dear Stakeholders and Interested and Affected Parties

NOTICE OF BASIC ASSESSMENT AND SCOPING AND ENVIRONMENTAL IMPACT ASSESSMENT FOR THE PROPOSED DEVELOPMENT OF THREE SOLAR PHOTOVOLTAIC FACILITIES AND ASSOCIATED ELECTRICAL INFRASTRUCTURE NORTH-EAST OF KENHARDT, NORTHERN CAPE PROVINCE

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Vind asseblief aangeheg die volgende:

- Beskrywing van die projek (word na verwys as die "BID")
- Brief aan die Belanghebbende en Geïnteresseerde Partye (B&GP'e)
- Kommentaar en Registrasievorm

Die BID, wat dien as agtergrond van die projek, bevat 'n beskrywing van die projek, die gelyste aktiwiteite en is vir 30-dae beskikbaar vir oorsig en kommentaar (**30 Julie 2015 - 31 Augustus 2015**). 'n Harde kopie van die bogenoemde dokumente is ook gestuur aan diegene vir wie ons posadresse het. Inligting van die projek is ook beskikbaar op die projekwebtuiste: <http://www.csir.co.za/eia/ScatecSolarPV/>.

Ons versoek graag dat alle kommentaar aan die WNNR Projekbestuurder (kontakbesonderhede onder aangedui) teen **31 Augustus 2015** verskaf word.

By voorbaat dankie,
Rohaida Abed
CSIR - Environmental Management Services

Posbus 17001, Congella, Durban, 4013
Tel: 031 242 2300
Faks: 031 261 2509
E-pos: RAbed@csir.co.za



17 Baker Street
Rosebank
Johannesburg
South Africa
2195

Tel: +27 (0) 11 442 2434
Fax: +27 (0) 11 442 2454
Email: atplody@ska.ac.za

Rohaida Abed
CSIR-Environmental Management Services
P. O. Box 17001
Congella
Durban
4013

E-mail: RAbed@csir.co.za

Date: 17 August 2015

Dear Rohaida,

Re: DEVELOPMENT OF THREE SOLAR PHOTOVOLTAIC FACILITIES AND ASSOCIATED ELECTRICAL INFRASTRUCTURE NORTH-EAST OF KENHARDT, NORTHERN CAPE PROVINCE (CSIR REFERENCE: EMS0102/SCATEC/2015)

This letter is in response to your email request, to provide an assessment on the potential development of three solar PV electricity generation facilities in the Northern Cape Province and the risk they may pose on the Square Kilometre Array Project.

A high level risk assessment has been conducted at the South African SKA Project Office to determine the potential impact of such facilities on the Square Kilometre Array. This letter serves to confirm the outcomes of the risk assessment, and proposals for any future investigations associated with this facility.

- I. The location of the proposed facility has been provided in the background information document compiled by CSIR ,
- II. The nearest SKA station has been identified as SKA Station ID 2362, at approximately 20 km from the proposed installation;
- III. Based on distance to the nearest SKA station, and the information currently available on the detailed design of the PV installations, these facilities poses a medium to high risk of detrimental impact on the SKA;
- IV. Any transmitters that are to be established, or have been established, at the site for the purposes of voice and data communication will be required to comply with the relevant AGA regulations concerning the restriction of use of the radio frequency spectrum that applies in the area concerned;
- V. As a result of the medium to high risk associated with the PV facilities, The SKA project office recommends that further EMI and RFI detailed studies be conducted as significant mitigation measures would be required to lower the risk of detrimental impact to an acceptable level. The South African SKA



SOUTH AFRICA SQUARE KILOMETRE ARRAY
SKA South Africa Project Office





Project Office would like to be kept informed of progress with this project, and reserves the right to further risk assessments at a later stage.

This technical advice is provided by the South African SKA Project Office on the basis of the protection requirements of the SKA in South Africa, and does not constitute legal approval of the renewable energy projects in terms of the Astronomy Geographic Advantage Act, the Management Authority, and its regulations or declarations.

Regards,

A handwritten signature in black ink, appearing to read 'Adrian Tiplady'.

Dr. Adrian Tiplady
Head: Strategy
SKA South Africa
Tel: 011 442 2434
Fax: 011 442 2454
atiplady@ska.ac.za



SOUTH AFRICA SQUARE KILOMETRE ARRAY
SKA South Africa Project Office



Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

From: René de Kock (WR) <Dekockr@nra.co.za>
To: "RAbed@csir.co.za" <RAbed@csir.co.za>
CC: "Nicole Abrahams (WR)" <AbrahamsN@nra.co.za>, "Colene Runkel (WR)" <Runkelc@nra.co.za>
Date: 04/09/2015 16:09
Subject: FW: Notice of BA and EIA Process - Solar PV Facilities and Associated Electrical Infrastructure, Northern Cape

Dear Rohaida Abed

Thank you for your letter dated 29 July 2015, send to Mr van der Walt.
Please note that this solar development will not impact on a national road, therefore SANRAL has no jurisdiction and have no further comment with regard to the Solar Facility.

Should any service, e.g. power line and/or water pipe will be situated within 60m from the national road or will cross the national road application should be made to SANRAL for approval in terms of the National Roads Act.

Kind regards



Are you ready?
Get tagged

Ms René de Kock

Statutory Control
Tel: +27 21 957 4607
Fax: +27 21 946 1630
Cell:
Email: Dekockr@nra.co.za

Western Region
1 Havenga Street Oakdale Bellville
Private Bag X19
www.nra.co.za
SANRAL Fraud Hotline: 0800204558

From: Kobus van der Walt (WR)
Sent: 31 July 2015 01:58 PM
To: René de Kock (WR) <Dekockr@nra.co.za>
Cc: Colene Runkel (WR) <Runkelc@nra.co.za>
Subject: FW: Notice of BA and EIA Process - Solar PV Facilities and Associated Electrical Infrastructure, Northern Cape

fyi

From: Rohaida Abed [mailto:RAbed@csir.co.za]
Sent: 29 July 2015 04:01 PM
To: Rohaida Abed
Subject: Notice of BA and EIA Process - Solar PV Facilities and Associated Electrical Infrastructure, Northern Cape

Dear Stakeholders and Interested and Affected Parties

NOTICE OF BASIC ASSESSMENT AND SCOPING AND ENVIRONMENTAL IMPACT ASSESSMENT FOR THE PROPOSED DEVELOPMENT OF THREE SOLAR PHOTOVOLTAIC FACILITIES AND ASSOCIATED ELECTRICAL INFRASTRUCTURE NORTH-EAST OF KENHARDT, NORTHERN CAPE PROVINCE

Competent Authority: National Department of Environmental Affairs

CSIR Reference: EMS0102/SCATEC/2015

This e-mail correspondence serves to inform you of the initiation of a Basic Assessment (BA) Process and Scoping and Environmental Impact Assessment (EIA) Process for the above-mentioned proposed project, located approximately 80 km south of Upington and 30 km north-east of Kenhardt within the !Kheis Local Municipality, Northern Cape Province. The Project Applicant is Scatec Solar SA 163 (PTY) Ltd (hereinafter referred to as Scatec Solar). The CSIR has been appointed by Scatec Solar to undertake the required BA Process, and Scoping and EIA Process.

A full Scoping and EIA Process is required for the development of three 75 Megawatt (MW) Solar Photovoltaic (PV) power generation facilities on the remaining extent of Onder Rugzeer Farm 168. A separate BA Process is also required and will be

undertaken for the development of three transmission lines and the connection points to the Eskom Nieuwehoop Substation (which is currently being constructed) on the remaining extent of Portion 3 of Gembok Bult Farm 120.

The proposed 75 MW Solar PV facilities and transmission lines are located within the same geographical area and constitute the same type of activity; hence an integrated Public Participation Process will be undertaken. However, separate Applications for Environmental Authorisation will be lodged with the National Department of Environmental Affairs (DEA) for each proposed 75 MW Solar PV facility and transmission line. Furthermore, separate BA, Scoping and EIA Reports will be compiled for each project, which will be referred to as:

Scoping and EIA Processes: Proposed 75 MW Solar PV Facilities	BA Processes: Proposed 132 kV Transmission Lines
- Kenhardt PV 1	- Kenhardt PV 1 – Transmission Line
- Kenhardt PV 2	- Kenhardt PV 2 – Transmission Line
- Kenhardt PV 3	- Kenhardt PV 3 – Transmission Line

The proposed projects are being assessed in terms of the National Environmental Management Act (Act 107 of 1998), as amended (NEMA), and the NEMA EIA Regulations, published in Government Notice (GN) R982, R983, R984 and R985 on 8 December 2014.

Please find attached the following:

- Background Information Document (BID);
- Letter 1 to Interested & Affected Parties (I&APs); and
- Comment and Registration Form.

The BID, which provides an overview of the proposed project, is being released to Stakeholders and I&APs for a 30-day comment period extending from **30 July 2015 to 31 August 2015**.

Hard copies of the above-mentioned documents have also been sent to those of you for which postal addresses are available.

In addition, the above-mentioned project information can be accessed at the following website: <http://www.csir.co.za/eia/ScatecSolarPV/>

Kindly ensure that all comments are submitted to the CSIR Project Manager (details provided below) by **31 August 2015**.

Thank you and kind regards,

Rohaida Abed

CSIR - Environmental Management Services
P. O. Box 17001, Congella, Durban, 4013
Tel: 031 242 2300
Fax: 031 261 2509
Email: RAbed@csir.co.za

Beste Belanghebbende en Geïnteresseerde Party

GESAMENTLIKE KENNISGEWING VAN BASIESE EN OMGEWINGSIMPAKEVALUERINGSPROSESSE VIR DIE VOORGESTELDE ONTWIKKELING VAN DRIE SONKRAGAAANLEGTE EN ELEKTRIESE INFRASTRUKTUUR NOORD-OOS VAN KENHARDT, NOORD- KAAP PROVINSIE

Bevoegde Owerheid: Die Nasionale Departement van Omgewingsake

WNNR/CSIR verwysingsnommer: EMS0102/SCATEC/2015

Hierdie e-pos korrespondensie se doel is om u in kennis te stel van die Basiese evaluerings- en Bestek en Omgewingsimpakevalueringproses vir die bogenoemde projekte, wat 80 km suid van Upington en 30 km noord-oos van Kenhardt in die !Kheis munisipaliteit voorgestel word. Die Aansoeker vir die projek is Scatec Solar SA 163 (PTY) Ltd ("Scatec Solar"). Die WNNR is aangestel deur Scatec Solar om die Basiese evaluerings- en Bestek en Omgewingsimpakevalueringproses vir die bogenoemde projekte uit te voer.

'n Bestek en Omgewingsimpakevalueringproses word vereis vir elk van die drie 75 MW Fotovoltaïese (PV) sonkragfasiliteite wat op die plaas Restant van Onder Rugzeer 168 voorgestel word. Aparte Basiese evalueringprosesse word ook vereis vir die voorgestelde 132 kV kraglyne en die konneksiepunte aan die Eskom Nieuwehoop Substasie (wat tans gebou word) op die plaas Restant van Gedeelte 3 van Gembok Bult 120.

Aangesien die sonkragprojekte en die voorgestelde elektriese infrastruktuur in dieselfde geografiese area gebou gaan word en dieselfde tipe projekte is, word dit voorgestel dat 'n geïntegreerde Publieke Deelname Proses gedoen gaan word. Aparte aansoeke gaan by die Nasionale Departement van Omgewingsake ingedien word vir die verskillende projekte en aparte verslae sal ook vir elke projek saamgestel en uitgestuur word. Die projekte sal na verwys word as:

Bestek en Omgewingsimpakevalueringproses: Voorgestelde drie 75 MW PV sonkragprojekte	Basiese evalueringprosesse: Voorgestelde drie 132 kV kraglyne
- Kenhardt PV 1	- Kenhardt PV 1 – Transmission Line
- Kenhardt PV 2	- Kenhardt PV 2 – Transmission Line
- Kenhardt PV 3	- Kenhardt PV 3 – Transmission Line

Die voorgestelde projekte sal ge-evalueer word volgens die Nasionale Omgewingsbeheer Wet, 1998 (Wet No 107 van 1998) (NEMA) en die Omgewingsimpakstudie (OIS) Regulasies soos gepubliseer in Staatskennisgewing R982 in Staatskoerant No 38282 van 08 Desember 2014.

Vind asseblief aangeheg die volgende:

- Beskrywing van die projek (word na verwys as die "BID")
- Brief aan die Belanghebbende en Geïnteresseerde Partye (B&GP'e)
- Kommentaar en Registrasievorm

Die BID, wat dien as agtergrond van die projek, bevat 'n beskrywing van die projek, die gelyste aktiwiteite en is vir 30-dae beskikbaar vir oorsig en kommentaar (**30 Julie 2015 - 31 Augustus 2015**). 'n Harde kopie van die bogenoemde dokumente is ook gestuur aan diegene vir wie ons posadresse het. Inligting van die projek is ook beskikbaar op die projekwebtuiste: <http://www.csir.co.za/eia/ScatecSolarPV/>.

Ons versoek graag dat alle kommentaar aan die WNNR Projekbestuurder (kontakbesonderhede onder aangedui) teen **31 Augustus 2015** verskaf word.

By voorbaat dankie,

Rohaida Abed

CSIR - Environmental Management Services
Posbus 17001, Congella, Durban, 4013
Tel: 031 242 2300
Faks: 031 261 2509
E-pos: RAbed@csir.co.za

Copies of Correspondence from I&APs during the 30-day Review of the Scoping Report

Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

Scoping and EIA for the Proposed Development of a 75 MW Solar Photovoltaic Facility north-east of Kenhardt, Northern Cape Province (Kenhardt PV 3)
Our Ref:



Enquiries: Ragna Redelstorf
Tel: +27 (0)21 202 8851
Email: redelstorf@sahra.org.za
CaseID: 8208

Date: Tuesday September 22, 2015

Page No: 1

BY ORDER OF THE
Department of Arts and Culture

Letter

In terms of Section of the National Heritage Resources Act (Act 25 of 1999)

Attention: Scatec Solar SA 163 (PTY) Ltd

Scatec Solar SA 163 (PTY) Ltd is proposing to develop three 75 Megawatt (MW) Solar Photovoltaic (PV) power generation facilities and associated electrical infrastructure (132 kV transmission lines for each 75 MW facility) on the remaining extent of Onder Rugzeer Farm 168 and the connection points to the substation on the remaining extent of Portion 3 of Gembok Bult Farm 120. A separate full Scoping and EIA Process will be undertaken for each proposed 75 MW Solar PV facility. A separate BA Process will be undertaken for each transmission line. An integrated Public Participation Process will be undertaken for the proposed projects. Separate Applications for Environmental Authorisation will be submitted for each proposed 75 MW Solar PV facility and transmission line. Separate BA, Scoping and EIA Reports will be compiled for each project. This specific application will entail the construction of the proposed 75 MW facility and will be referred to as Kenhardt PV3. The proposed project will take place approximately 80 km south of Upington and 30 km north-east of Kenhardt within the Northern Cape Province.

The proposed project entails the construction of a solar photovoltaic (PV) facility and associated infrastructure on the remaining extent of the Farm Onder Rugzeer No 168 and connection points to the substation on the remaining extent of Portion 3 of the Farm Gembok Bull No 120, located approximately 30 km northeast of Kenhardt, Northern Cape Province. This project is part of a larger project comprising a total of three solar facilities (called Kenhardt PV1, 2 and 3).

In terms of the National Heritage Resources Act, no 25 of 1999, heritage resources, including archaeological or palaeontological sites over 100 years old, graves older than 60 years, structures older than 60 years are protected. They may not be disturbed without a permit from the relevant heritage resources authority. This means that prior to development it is incumbent on the developer to ensure that a Heritage Impact Assessment is done. This must include the archaeological component (Phase 1) and any other applicable heritage components. Appropriate (Phase 2) mitigation, which involves recording, sampling and dating sites that are to be destroyed, must be done as required.

The quickest process to follow for the archaeological component is to contract an accredited specialist (see the web site of the Association of Southern African Professional Archaeologists www.asapa.org.za) to provide a Phase 1 Archaeological Impact Assessment Report. This must be done before any large development takes place.

The Phase 1 Impact Assessment Report will identify the archaeological sites and assess their significance. It should also make recommendations (as indicated in section 38) about the process to be followed. For example, there may need to be a mitigation phase (Phase 2) where the specialist will collect or excavate



Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

Scoping and EIA for the Proposed Development of a 75 MW Solar Photovoltaic Facility north-east of Kenhardt, Northern Cape Province (Kenhardt PV 3)
Our Ref:



Enquiries: Ragna Redelstorff
Tel: +27 (0)21 202 8851
Email: redelstorff@sahra.org.za
CaseID: 8208

Date: Tuesday September 22, 2015

Page No: 2

an agency of the
Department of Arts and Culture

material and date the site. At the end of the process the heritage authority may give permission for destruction of the sites.

The PalaeoSensitivity Map on SAHRIS (<http://www.sahra.org.za/sahris/map/palaeo>) indicates moderate palaeontological sensitivity for the proposed area. Therefore, the SAHRA Archaeology, Palaeontology and Meteorites Unit requires a desktop Palaeontological Impact Assessment to be undertaken to assess whether or not the development will impact upon palaeontological resources - or at least a letter of exemption from a Palaeontologist is needed to indicate that this is unnecessary. If the area is deemed sensitive, a full Phase 1 Palaeontological Impact Assessment will be required and if necessary a Phase 2 rescue operation might be necessary.

Any other heritage resources that may be impacted such as built structures over 60 years old, sites of cultural significance associated with oral histories, burial grounds and graves, graves of victims of conflict, and cultural landscapes or views must also be assessed.

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

Yours faithfully

Ragna Redelstorff
Heritage Officer
South African Heritage Resources Agency

Phillip Hine
SAHRA Head Archaeologist (Acting)
South African Heritage Resources Agency

ADMIN:

Direct URL to case: <http://www.sahra.org.za/node/319862>



Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

Scoping and EIA for the Proposed Development of a 75 MW Solar Photovoltaic Facility north-east of Kenhardt, Northern Cape Province (Kenhardt PV 3)
Our Ref:



Enquiries: Ragna Redelstorff
Tel: +27 (0)21 202 8851
Email: redelstorff@sahra.org.za
CaseID: 8208

Date: Tuesday September 22, 2015

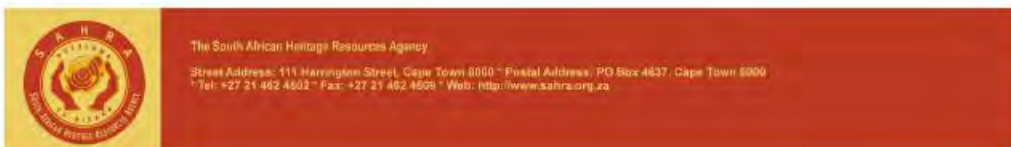
Page No: 3

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Department of Arts and Culture

(DEA, Ref:)

Terms & Conditions:

1. This approval does not exonerate the applicant from obtaining local authority approval or any other necessary approval for proposed work.
2. If any heritage resources, including graves or human remains, are encountered they must be reported to SAHRA immediately.
3. SAHRA reserves the right to request additional information as required.



Rohaida Abed - RE: Release of Scoping Reports - Solar PV Facilities and Associated Electrical Infrastructure, Northern Cape

From: Rohaida Abed
To: SLD, Marina Lourens Transnet Freight Rail
Date: 22/10/2015 17:06
Subject: RE: Release of Scoping Reports - Solar PV Facilities and Associated Electrical Infrastructure, Northern Cape
CC: Gilbert.Nortier@transnet.net
Attachments: Kenhardt PV1.pdf; Kenhardt PV2.pdf; Kenhardt PV3.pdf

Dear Marina

I trust that you are well. As requested, please find attached three separate maps showing the TFR access road and the proposed project area. As noted in the trailing email, the Scoping Reports are available on the project website: <http://www.csir.co.za/eia/ScatecSolarPV/>

Thanks and kind regards,
Rohaida

>>> "Marina Lourens Transnet Freight Rail SLD" <Marina.Lourens@transnet.net> 25/09/2015 07:42
>>>

Please send us three different drawings as this is 3 separate applications

From: Gilbert Nortier Transnet Freight Rail PLZ
Sent: 24 September 2015 06:03 PM
To: Marina Lourens Transnet Freight Rail SLD
Subject: FW: Release of Scoping Reports - Solar PV Facilities and Associated Electrical Infrastructure, Northern Cape

Hi Marina

3 separate applications, please request drawings indicating TFR assets

Thanks

Gilbert



G.G. Nortier DEM (IOL)
 (022) 703 3521 083 407 7924
 (022) 703 3494 Gilbert.Nortier@transnet.net

Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

Rohaida Abed - FW: Hard Copies: Notice of BA and EIA Process - Solar PV Facilities and Associated Electrical Infrastructure, Northern Cape

From: "Mei Melinda (UPN)" <MeiM@dws.gov.za>
To: Rohaida Abed <RAbed@csir.co.za>
Date: 29/09/2015 14:37
Subject: FW: Hard Copies: Notice of BA and EIA Process - Solar PV Facilities and Associated Electrical Infrastructure, Northern Cape
CC: Cloete Sham <CloeteS@dws.gov.za>

Good Day Mr. Abed

Your notice received with regards to Basic Assessment; Scoping and Environmental Impact Assessment for the Proposed Development of the three Solar Photovoltaic Facilities and Associated Electrical Infrastructure; North-East of Kenhardt; Northern Cape is of reference. DWS requires you to forward hard copies of the above mentioned project to either of the following address:

Physical Address:

Department Of Water and Sanitation

Louisvale Road Upington

8801

OR

Postal Address:

Department Of Water and Sanitation

Private Bag X 5912

Upington

8800

Your co-operation and assistance is highly appreciated

With kind regards,

Melinda Mei
Water Quality Management: Orange Proto-CMA
Tel: [054 338 5836](tel:0543385836)
Fax: [054 334 0205](tel:0543340205)



Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

From: Mei Melinda (UPN)
Sent: 04 August 2015 01:39 PM
To: 'Rohaida Abed'
Cc: Cloete Shaun
Subject: Hard Copies: Notice of BA and EIA Process - Solar PV Facilities and Associated Electrical Infrastructure, Northern Cape
Importance: High

Good morning Mr. Abed

Your notice received with regards to Basic Assessment: Scoping and Environmental Impact Assessment for the Proposed Development of the three Solar Photovoltaic Facilities and Associated Electrical Infrastructure: North-East of Kenhardt: Northern Cape is of reference.

DWS requires you to forward hard copies of the above mentioned project to either of the following address:

Physical Address:

Department Of Water and Sanitation

Louisvale Road Upington

8801

OR

Postal Address:

Department Of Water and Sanitation

Private Bag X 5912

Upington

8800

Your co-operation and assistance is highly appreciated.

With kind regards,

Melinda Mei
Senior Administration Clerk
Water Quality Management: Lower Orange Water Management Area
Tel: [054 338 5836](tel:0543385836)
Fax: [054 334 0205](tel:0543340205)
Mail: MeiM@dwa.gov.za



Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

From: John Geeringh <GeerinJH@eskom.co.za>
To: Rohaida Abed <RAbed@csir.co.za>
Date: 29/09/2015 17:29
Subject: RE: Release of Scoping Reports - Solar PV Facilities and Associated Electrical Infrastructure, Northern Cape
Attachments: Eskom requirements for work in or near Eskom servitudes SOLAR (3).doc; Renewable Energy Generation PlantSetbacks to Eskom Infrastructure - Signed.pdf

Please find attached Eskom requirements for renewable infrastructure development at or near Eskom infrastructure.
Regards

John Geeringh (Pr Sci Nat)
Senior Consultant Environmental Management

Eskom GC: Land Development
Megawatt Park
D1Y39
P O Box 1091
Johannesburg
2000

Tel: 011 516 7233
Fax: 086 661 4064
Cell: 083 632 7663

From: Rohaida Abed [mailto:RAbed@csir.co.za]
Sent: 23 September 2015 03:29 PM
To: Rohaida Abed
Subject: Release of Scoping Reports - Solar PV Facilities and Associated Electrical Infrastructure, Northern Cape

NOTICE OF RELEASE OF SCOPING REPORTS FOR THE PROPOSED DEVELOPMENT OF THREE SOLAR PHOTOVOLTAIC (PV) FACILITIES (REFERRED TO AS KENHARDT PV 1, KENHARDT PV 2, AND KENHARDT PV 3) ON THE REMAINING EXTENT OF ONDER RUGZEER FARM 168, NORTH-EAST OF KENHARDT, NORTHERN CAPE PROVINCE

Competent Authority: National Department of Environmental Affairs

CSIR REFERENCE: EMS0102/Scatec/2015

This e-mail correspondence serves to inform you of the release of Scoping Reports for the development of three 75 Megawatt (MW) Solar Photovoltaic (PV) power generation facilities, located on the remaining extent of Onder Rugzeer Farm 168, approximately 80 km south of Upington and 30 km north-east of Kenhardt within the !Kheis Local Municipality, Northern Cape Province. The proposed 75 MW Solar PV projects are referred to as: Kenhardt PV 1, Kenhardt PV 2 and Kenhardt PV 3 respectively. The Project Applicant is Scatec Solar SA 330 (PTY) Ltd for Kenhardt PV 1, Scatec Solar SA 350 (PTY) Ltd for Kenhardt PV 2 and Scatec Solar SA 370 (PTY) Ltd for Kenhardt PV 3.

In terms of the National Environmental Management Act (Act 107 of 1998, as amended) (NEMA) and the 2014 NEMA Environmental Impact Assessment (EIA) Regulations promulgated in Government Gazette 38282 and Government Notice (GN) R982, R983, R984 and R985 on 8 December 2014, a full Scoping and EIA Process is required for the construction of the three Solar PV facilities. A separate Basic Assessment Process will be undertaken for the development of the proposed transmission lines, associated electrical infrastructure and connection to the Eskom Nieuwehoop Substation (which is currently being constructed) on the remaining extent of Portion 3 of Gembok Bult Farm 120. The CSIR has been appointed by the Project Applicant to undertake the separate requisite Basic Assessment, and Scoping and EIA Processes for the proposed projects.

The proposed 75 MW Solar PV facilities are located within the same geographical area and constitute the same type of activity; hence an integrated Public Participation Process will be undertaken. However, separate Applications for Environmental Authorisation are currently being lodged with the National Department of Environmental Affairs (DEA) for each proposed 75 MW Solar PV facility and will be lodged for each Basic Assessment project. Furthermore, separate Basic Assessment, Scoping and EIA Reports will be compiled for each project.

In line with the above, as a registered Interested and Affected Party (I&AP) on the project database, you are hereby notified of the release of the Scoping Reports for the Kenhardt PV 1, Kenhardt PV 2 and Kenhardt PV 3 projects for a 30-day review period, which will extend from **25 September 2015** to **27 October 2015**.

Please find attached the following:
- Executive Summary of each Scoping Report;
- Letter 2 to I&APs; and
- Comment and Registration Form.

Hard copies of the Scoping Reports are available for public viewing at the Kenhardt Library (in Park Street) and the Groblershoop Library (at 97 Oranje Street).

In addition, the above-mentioned project information can be accessed at the following website: <http://www.csir.co.za/eia/ScatecSolarPV/>

Kindly ensure that all comments are submitted to the CSIR Project Manager (details provided below) by **27 October 2015**.

Thank you and kind regards,

Rohaida Abed

CSIR - Environmental Management Services
P. O. Box 17001, Congella, Durban, 4013
Tel: 031 242 2300
Fax: 031 261 2509
Email: RAbed@csir.co.za

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 an 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

	SCOT	Technology
---	-------------	-------------------

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*

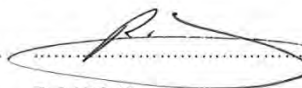
Approved by



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**

Wind Turbine Eskom Setbacks

Unique Identifier: 240-65559775

Revision: 0

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Wind Turbine Eskom Setbacks

Unique Identifier: 240-65559775

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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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Wind Turbine Eskom Setbacks

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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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Wind Turbine Eskom Setbacks

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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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Wind Turbine Eskom Setbacks

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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 Turbine Eskom Setbacks

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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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Wind Turbine Eskom Setbacks

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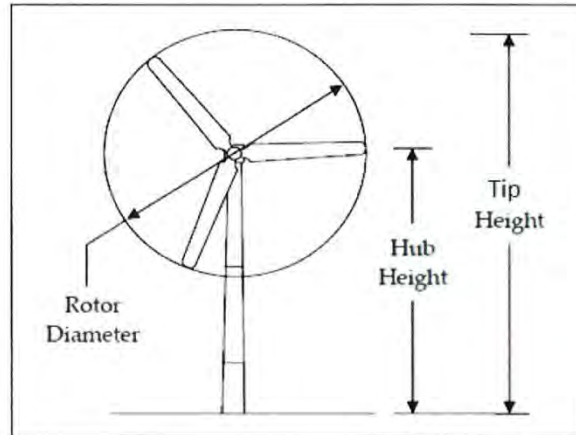


Figure 1: Horizontal Axis Wind Turbine ^[2]

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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Wind Turbine Eskom Setbacks

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Revision: 0

Page: 9 of 9

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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Rohaida Abed - Agriculture acknowledgement

From: "HettieB" <HettieB@daff.gov.za>
To: <RAbed@csir.co.za>
Date: 06/10/2015 16:43
Subject: Agriculture acknowledgement
Attachments: Agriculture acknowledgement.pdf



agriculture,
forestry & fisheries

Department
Agriculture, forestry & fisheries
REPUBLIC OF SOUTH AFRICA

Directorate Land Use and Soil Management, Private Bag x120, Gezina Pretoria, 0031
Delpen Building, c/o Annie Botha & Union Streets, Riviera

From: Director: Land Use and Soil Management
Tel: (012) 319 7634 , Fax: (012) 329 5938 | e-mail: nhiakad@daff.gov.za

CSIR
PO Box 17001
Congella
Durban 4013

6 October 2015

Dear Sir/Madam

This serves as a notice of receipt and confirms that your application has been captured in our electronic AgriLand tracking and management system. It is strongly recommended that you use the on-line AgriLand application facility in future.

Detail of your application as captured:

Application type: Scoping Reports: Three Solar Photovoltaic Facilities
Your reference number:
Property Description: *Onder Rugzeer 168*
Dated: *25 September 2015*

Please use the following reference number in all enquiries:

AgriLand reference number: 2015_10_0050

Enquiries can be made to the above postal, fax or e-mail address.

Yours sincerely,

HJ Buys
pp DIRECTOR: LAND USE AND SOIL MANAGEMENT

<http://www.agis.agric.za/agriland>

Rohaida Abed - EIA: THREE SOLAR PV FACILITIES AND ASSOCIATED ELECTRICAL INFRASTRUCTURE NORTH EAST OF KENHARDT, NC

From: "Nicole Abrahams (WR)" <AbrahamsN@nra.co.za>
To: "RABed@csir.co.za" <RABed@csir.co.za>
Date: 14/10/2015 09:54
Subject: EIA: THREE SOLAR PV FACILITIES AND ASSOCIATED ELECTRICAL INFRASTRUCTURE NORTH EAST OF KENHARDT, NC
CC: René de Kock (WR) <Dekockr@nra.co.za>

Good day Ms Rohaida Abed

I would herewith like to register as an IAP for the above listed project. May I also request a locality plan please. I would like to know if there is a transport plan available for this project yet.

Regards



Ms Nicole Abrahams
Environmental Coordinator
Tel: +27 21 957 4602
Fax: +27 21 910 1699
Email: Abrahamsn@nra.co.za

Reg.No.
1998/009584/30



Sanral
Western Region
1 Havenga Street, Oakdale, 7530
Private Bag X19, Bellville, 7535
www.sanral.co.za
SANRAL Fraud Hotline: 0800204558

Rohaida Abed - Proposed developments solar project @ Kenhart PV 3

From: Gloria Matlakala <gloria.tlaky@gmail.com>
To: <RABed@csir.co.za>
Date: 26/10/2015 18:43
Subject: Proposed developments solar project @ Kenhart PV 3

Good day Mr Abed

Can you please sent me the registration form to register my company as an I & AP under your database and

I'm asking Mr Abed that in future I want to be informed and attend the meetings for the developments you brings to us

For enquiry please sent me emails, or contacts me: [072 056 2833](tel:0720562833) or [071 984 6106](tel:0719846106)

Hope you will find this in order

Kind regards
Gloria (Khies Municipality)

Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

From: Surina Laurie
To: Rohaida Abed
Date: 28/10/2015 10:13
Subject: Fwd: Re: DEA Reference number

FYI

>>> "LToolsBernado" <ltoolsbernado@ncpg.gov.za> 28/10/2015 08:39 >>>

Thank You

Regards
Luzane

>>> "Surina Laurie" <SLaurie@csir.co.za> 10/27/2015 10:16 AM >>>

Dear Luzane

We finally received it, please see attached.

Regards,

Surina

Surina Laurie (Pr. Sci. Nat. Environmental Science)
Senior Environmental Assessment Practitioner
CSIR - Environmental Management Services
11 Jan Celliers Street, Stellenbosch
PO Box 320, Stellenbosch, 7599

Tel: 021 888 2490
Cell: 082 468 0962
Fax: 021 888 2693
Email: slaurie@csir.co.za

>>> Surina Laurie 14/10/2015 08:40 >>>

Dear Luzane

We still have not received it, I will send it to you, once received.

Regards

Surina

Surina Laurie (Pri. Sci. Nat. Environmental Science)
Senior Environmental Assessment Practitioner
CSIR - Environmental Management Services
11 Jan Celliers Street, Stellenbosch
PO Box 320, Stellenbosch, 7599

Tel: 021 888 2490
Cell: 082 468 0962
Fax: 021 888 2693
Email: slaurie@csir.co.za

>>> "LToolsBernado" <ltoolsbernado@ncpg.gov.za> 12/10/2015 08:21 >>>

Dear Ms Laurie

Regarding our telephonic conversation on the 06th October 2015, The Dept of Environment and Nature Conservation is still waiting for the DEA Ref number of the following project Description

Scoping and Environmental Impact Assessment for the proposed Development of a 75MW Solar Photovoltaic Facility (KENHARDT PV 1) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province.

Please do send the DEA Ref Number as we need to Acknowledge the document.

Kind Regards
Luzane Tools-Bernado
EIA: Administration

Rohaida Abed - Re: Fwd: Release of Scoping Reports - Solar PV Facilities and Associated Electrical Infrastructure, Northern Cape

From: Adrian Tiplady <atiplady@ska.ac.za>
To: Rohaida Abed <RAbed@csir.co.za>
Date: 29/10/2015 07:52
Subject: Re: Fwd: Release of Scoping Reports - Solar PV Facilities and Associated Electrical Infrastructure, Northern Cape
CC: <temonama@ska.ac.za>

Hi Rohaida,

In summary, a detailed EMI and RFI survey would need to be undertaken to characterise the expected radio emissions from the facility. Once this has been conducted, radio frequency propagation modelling would need to be undertaken to determine the quantitative impact the proposed facility would have on the SKA.

The relevant developer would need to contract EMI specialists to undertake these studies. I can suggest a group based in Pretoria, who have undertaken similar studies.

Regards,

Adrian

On 27/10/2015 4:51 PM, Rohaida Abed wrote:

Dear Dr. Tiplady
I refer to the email trail below in relation to the proposed Kenhardt PV projects. We would appreciate if you could provide additional information regarding the scope and Terms of Reference for the required EMI and RFI studies.
Thank you for your assistance with this.
Kind Regards,
Rohaida

>>> Rohaida Abed 23/10/2015 09:23 >>>

Dear Dr. Tiplady
I trust that you are well. I refer to the email sent below on 23 September 2015 regarding the release of the Kenhardt PV 1, Kenhardt PV 2 and Kenhardt PV3 Scoping Reports, as well as the email sent on 6 October 2015 with an addendum to the Scoping Reports.
Thank you for the attached comments sent by the SKA on 2 September 2015 on the Background Information Document for the proposed project. The attached correspondence states that "*as a result of the medium to high risk associated with the PV facilities, the SKA project office recommends that further EMI and RFI detailed studies be conducted as significant mitigation measures would be required to lower the risk of detrimental impact to an acceptable level*".
We would appreciate if you could provide additional information regarding the scope and Terms of Reference for the required EMI and RFI studies.
Thank you for your assistance with this.
Kind Regards,
Rohaida

>>> Rohaida Abed 23/09/2015 15:29 >>>

Dear Stakeholders and Interested and Affected Parties
NOTICE OF RELEASE OF SCOPING REPORTS FOR THE PROPOSED DEVELOPMENT OF THREE SOLAR PHOTOVOLTAIC (PV) FACILITIES (REFERRED TO AS KENHARDT PV 1, KENHARDT PV 2, AND KENHARDT PV 3) ON THE REMAINING EXTENT OF ONDER RUGZEER FARM 168, NORTH-EAST OF KENHARDT, NORTHERN CAPE PROVINCE
Competent Authority: National Department of Environmental Affairs
CSIR REFERENCE: EMS0102/SCATEC/2015
This e-mail correspondence serves to inform you of the release of Scoping Reports for the development of three 75 Megawatt (MW) Solar Photovoltaic (PV) power generation facilities, located on the remaining extent of Onder Rugzeer Farm 168, approximately 80 km south of Upington and 30 km north-east of Kenhardt within the IKheis Local Municipality, Northern Cape Province. The proposed 75 MW Solar PV projects are referred to as: Kenhardt PV 1, Kenhardt PV 2 and Kenhardt PV 3 respectively. The Project Applicant is Scatec Solar SA 330 (PTY) Ltd for Kenhardt PV 1, Scatec Solar SA 350 (PTY) Ltd for Kenhardt PV 2 and Scatec Solar SA 370 (PTY) Ltd for Kenhardt PV 3.

Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

In terms of the National Environmental Management Act (Act 107 of 1998, as amended) (NEMA) and the 2014 NEMA Environmental Impact Assessment (EIA) Regulations promulgated in Government Gazette 38282 and Government Notice (GN) R982, R983, R984 and R985 on 8 December 2014, a full Scoping and EIA Process is required for the construction of the three Solar PV facilities. A separate Basic Assessment Process will be undertaken for the development of the proposed transmission lines, associated electrical infrastructure and connection to the Eskom Nieuwehoop Substation (which is currently being constructed) on the remaining extent of Portion 3 of Gemsbok Bult Farm 120. The CSIR has been appointed by the Project Applicant to undertake the separate requisite Basic Assessment, and Scoping and EIA Processes for the proposed projects. The proposed 75 MW Solar PV facilities are located within the same geographical area and constitute the same type of activity; hence an integrated Public Participation Process will be undertaken. However, separate Applications for Environmental Authorisation are currently being lodged with the National Department of Environmental Affairs (DEA) for each proposed 75 MW Solar PV facility and will be lodged for each Basic Assessment project. Furthermore, separate Basic Assessment, Scoping and EIA Reports will be compiled for each project.

In line with the above, as a registered Interested and Affected Party (I&AP) on the project database, you are hereby notified of the release of the Scoping Reports for the Kenhardt PV 1, Kenhardt PV 2 and Kenhardt PV 3 projects for a 30-day review period, which will extend from **25 September 2015** to **27 October 2015**.

Please find attached the following:

- Executive Summary of each Scoping Report;
- Letter 2 to I&APs; and
- Comment and Registration Form.

Hard copies of the Scoping Reports are available for public viewing at the Kenhardt Library (in Park Street) and the Groblershoop Library (at 97 Oranje Street).

In addition, the above-mentioned project information can be accessed at the following website:

<http://www.csir.co.za/eia/ScatecSolarPV/>

Kindly ensure that all comments are submitted to the CSIR Project Manager (details provided below) by **27 October 2015**.

Thank you and kind regards,

Rohaida Abed

CSIR - Environmental Management Services

P. O. Box 17001, Congella, Durban, 4013

Tel: [031 242 2300](tel:0312422300)

Fax: [031 261 2509](tel:0312612509)

Email: RAbed@csir.co.za

--

Dr. Adrian Tiplady
SKA South Africa
Johannesburg
[+27 11 442 2434](tel:+27114422434)
[+27 72 372 0134](tel:+27723720134)
www.ska.ac.za

Rohaida Abed - Re: Fwd: Release of Scoping Reports - Solar PV Facilities and Associated Electrical Infrastructure, Northern Cape

From: Adrian Tiplady <atiplady@ska.ac.za>
To: Rohaida Abed <RAbed@csir.co.za>
Date: 29/10/2015 12:11
Subject: Re: Fwd: Release of Scoping Reports - Solar PV Facilities and Associated Electrical Infrastructure, Northern Cape
CC: <temonama@ska.ac.za>

Hi Rohaida,

ITC Services
callie@itc-services.com

Regards,

Adrian

On 29/10/2015 9:23 AM, Rohaida Abed wrote:

Dear Adrian
Thank you very much for your response. We would appreciate if you could kindly send us the contact details for the EMI specialists based in Pretoria that you suggest in the email below.
Kind Regards,
Rohaida

>>> Adrian Tiplady <atiplady@ska.ac.za> 29/10/2015 07:51 >>>
> Hi Rohaida,

In summary, a detailed EMI and RFI survey would need to be undertaken to characterise the expected radio emissions from the facility. Once this has been conducted, radio frequency propagation modelling would need to be undertaken to determine the quantitative impact the proposed facility would have on the SKA.

The relevant developer would need to contract EMI specialists to undertake these studies. I can suggest a group based in Pretoria, who have undertaken similar studies.

Regards,

Adrian

Rohaida Abed - Re: Fwd: Release of Scoping Reports - Solar PV Facilities and Associated Electrical Infrastructure, Northern Cape

From: Adrian Tiplady <atiplady@ska.ac.za>
To: Rohaida Abed <RAbed@csir.co.za>
Date: 29/10/2015 18:51
Subject: Re: Fwd: Release of Scoping Reports - Solar PV Facilities and Associated Electrical Infrastructure, Northern Cape
CC: <temonama@ska.ac.za>

Hi Rohaida,

I will confirm tomorrow - however, I suspect our comments will be no different from what we have already submitted. Should we send no further comments, please treat our previous comments as still valid as we have not received any evidence of studies having been conducted.

Unless I have missed something?

Regards,

Adrian

On 29/10/2015 4:13 PM, Rohaida Abed wrote:

Dear Adrian
Thank you very much for these contact details. I have forwarded them to the Project Applicant.

Please could you also confirm if the SKA has any comments on the Scoping Report and Addendum for the proposed projects.
Thank you and kind regards,
Rohaida

>>> Adrian Tiplady <atiplady@ska.ac.za> 29/10/2015 12:10 >>>
> Hi Rohaida,

ITC Services
callie@itc-services.com

Regards,

Adrian

Rohaida Abed - Re: Fwd: Release of Scoping Reports - Solar PV Facilities and Associated Electrical Infrastructure, Northern Cape

From: Adrian Tiplady <atiplady@ska.ac.za>
To: Rohaida Abed <RAbed@csir.co.za>
Date: 30/10/2015 09:23
Subject: Re: Fwd: Release of Scoping Reports - Solar PV Facilities and Associated Electrical Infrastructure, Northern Cape
CC: <temonama@ska.ac.za>

Hi Rohaida,

I would like to confirm that our letter applies to all potential facilities of the same nature located at this site, and future requests for comments on this and other facilities. Once we have been able to assess and analyse appropriate measurement reports, we will issue a further comment.

Regards,

Adrian

On 29/10/2015 4:13 PM, Rohaida Abed wrote:

Dear Adrian
Thank you very much for these contact details. I have forwarded them to the Project Applicant.

Please could you also confirm if the SKA has any comments on the Scoping Report and Addendum for the proposed projects.
Thank you and kind regards,
Rohaida

>>> Adrian Tiplady <atiplady@ska.ac.za> 29/10/2015 12:10 >>>
> Hi Rohaida,

ITC Services
callie@itc-services.com

Regards,

Adrian

Rohaida Abed - Re: Proposed developments solar project @ Kenhart PV 3

From: Gloria Matlakala <gloria.flaky@gmail.com>
To: Rohaida Abed <RAbed@csir.co.za>
Date: 30/10/2015 14:30
Subject: Re: Proposed developments solar project @ Kenhart PV 3

Good day

Thank you very much to update me on the above mentioned correspondence

Kind regards
Glo

Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

Rohaida Abed - RE: EIA: THREE SOLAR PV FACILITIES AND ASSOCIATED ELECTRICAL INFRASTRUCTURE NORTH EAST OF KENHARDT, NC

From: "Nicole Abrahams (WR)" <AbrahamsN@nra.co.za>
To: "Rohaida Abed" <RAbed@csir.co.za>
Date: 30/10/2015 15:48
Subject: RE: EIA: THREE SOLAR PV FACILITIES AND ASSOCIATED ELECTRICAL INFRASTRUCTURE NORTH EAST OF KENHARDT, NC
CC: René de Kock (WR) <Dekockr@nra.co.za>

Good day Rohaida

Thank you for the locality plans. If any transport plan will be developed then you should forward that to me please.

Regards
Nicole

From: Rohaida Abed [RAbed@csir.co.za]
Sent: 30 October 2015 01:53 PM
To: Nicole Abrahams (WR) <AbrahamsN@nra.co.za>
Cc: René de Kock (WR) <Dekockr@nra.co.za>
Subject: Re: EIA: THREE SOLAR PV FACILITIES AND ASSOCIATED ELECTRICAL INFRASTRUCTURE NORTH EAST OF KENHARDT, NC

Dear Nicole

Thank you for email regarding the proposed Kenhardt PV 1, Kenhardt PV 2 and Kenhardt PV 3 projects. We will add you the project database as requested.

As requested, please find attached locality plans for the Kenhardt PV 1, Kenhardt PV 2 and Kenhardt PV 3 projects.

On 4 September 2015, we also received an email from Ms. Rene de Kock stating the following:

"Please note that this solar development will not impact on a national road, therefore SANRAL has no jurisdiction and have no further comment with regard to the Solar Facility. Should any service, e.g. power line and/or water pipe will be situated within 60m from the national road or will cross the national road application should be made to SANRAL for approval in terms of the National Roads Act."

As noted in Chapter 6 of the Scoping Report, a general Traffic Impact Statement (which will include management measures for road maintenance) will be prepared by the EAP, which will provide recommendations for inclusion in the EMPr (during the EIA Report Phase). The same approach was followed by the CSIR for the proposed Nieuwehoop Solar EIA Project which is currently at the decision-making stage of the EIA.

Please confirm if SANRAL has any further comments on the Scoping Report and Addendum (as sent on 6 October 2015 via email). Please note that all project information is available on the project website (<http://www.csir.co.za/>/eia/ScatecSolarPV>). The comment period closes on 5 November 2015.

Kind Regards,
Rohaida

CSIR - Environmental Management Services
P. O. Box 17001, Congella, Durban, 4013
Tel: [031 242 2300](tel:0312422300)
Fax: [031 261 2509](tel:0312612509)
Email: RAbed@csir.co.za

>>> "Nicole Abrahams (WR)" <AbrahamsN@nra.co.za> 14/10/2015 09:24 >>>
Good day Ms Rohaida Abed

I would herewith like to register as an IAP for the above listed project. May I also request a locality plan please. I would like to know if there is a transport plan available for this project yet.

Regards



Reg. No.
1998/009584/30



Ms Nicole Abrahams
Environmental Coordinator
Tel: +27 21 957 4602
Fax: +27 21 910 1699
Email: Abrahamsn@nra.co.za

Sanral
Western Region
1 Havenga Street, Oakdale, 7530
Private Bag X19, Bellville, 7535
www.sanral.co.za
SANRAL Fraud Hotline: [0800204558](tel:0800204558)

Rohaida Abed - Comments: Kenhard Pv 1,2 &3

From: "Schwartz Chantel (UPN)" <SchwartzC@dws.gov.za>
To: "RAbed@csir.co.za" <RAbed@csir.co.za>
Date: 03/11/2015 09:59
Subject: Comments: Kenhard Pv 1.2 &3
Attachments: Kenhardt PV.pdf

Good Day Sir/Madam

Please find attached a copy of the comments by the Department of Water and Sanitation. The original will be sent to you via registered mail.

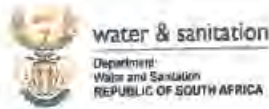
Please feel free to contact this department should you have any queries.

Kind regards,
Chantel

Ms Chantel Schwartz
Department of Water and Sanitation
Orange Proto-CMA
Tel: (054) 338- 5836
Fax: (054) 334-0205



From: upnscan@dwa.gov.za [upnscan@dwa.gov.za]
Sent: 03 November 2015 03:50 AM
To: Schwartz Chantel (UPN)
Subject: Message from KM_C454e



Northern Cape Region
Lower Orange Water Management Area
Private Bag X5912, Upington, 8800
Tel: (054) 338-5800, Fax: (054) 334-0205, www.dwa.gov.za

F 054 334 0205
E SchwartzC@dws.gov.za

C.Schwartz
054 338 5800
By Registered Mail

CSIR
P O Box 17001
Congella, Durban
4013
South Africa



Attention: Claude Bosman

SCOPING AND ENVIRONMENTAL IMPACT ASSESSMENT REPORT FOR THE PROPOSED DEVELOPMENT OF THREE SOLAR PHOTOVOLTAIC FACILITIES (REFERRED TO AS KENHARDT PV 1, KENHARDT PV 2 AND KENHARDT PV 3) ON THE REMAINING EXTENT OF ONDER RUGZEER FARM 168, NORTH-EAST OF KENHARDT, NORTHERN CAPE PROVINCE

The Department of Water & Sanitation (DWS) hereby acknowledges receipt of your scoping and environmental impact assessment for the proposed development of Three Solar Photovoltaic Facilities (Referred to As Kenhardt Pv 1, Kenhardt Pv 2 And Kenhardt Pv 3) on the remaining extent of Onder Rugzeer Farm 168, North-East Of Kenhardt, Northern Cape Province. The department has reviewed the document and the comments are as follows:

- Please note that no development should take place within 100m horizontal distance from a water course or within 1:100 year flood line. Operation and storage of equipment within the riparian zone must be limited as far as possible.
- All sewage, grey and wash water, as well as any waste generated during the construction phase of the facilities will be collected, contained and disposed of at the permitted and / or licensed facilities of the Local Authority. Please note that proof of the agreement between the applicant and the concerned Local Authority must be submitted to this Department.
- Any spillage of any hazardous materials including diesel that may occur during construction and operation must be dealt with and reported immediately to this Department.

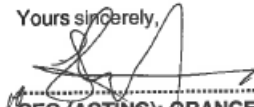
- Storm water must be diverted from the construction works and roads and must be managed in such a manner as to disperse runoff and to prevent the concentration of storm water flow. Where necessary, works must be constructed to attenuate the velocity of the storm water discharge and to protect the banks of the watercourse.
- Please note that no taking of water or storing of water from the water resource shall be lawful without a water use authorisation.

Due to the high number of renewable energy projects that are taking part in the Department of Energy [DOE] bidding process, this Department [DWS] will only process applications for water use authorisations received from developers who have attained preferred bidder status.

Developers who wish to submit applications for water use authorisations may however proceed to do so, with the understanding that their applications will be processed as soon as we have confirmation of their status with the DOE.

Attached to this letter is annexure 1 that details information, which must be submitted as part of the application for water use authorisation.

Yours sincerely,


.....
CEO (ACTING): ORANGE PROTO-CMA
DATE: 30/10/2015

Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

Annexure 1	
INFORMATION TO BE SUBMITTED AS PART OF WATER USE LICENSE APPLICATIONS	
Application Forms	Part 1 Application Forms Supplementary Forms
Property Details	Title Deed(s) of Property(ies) Letter of Consent of Land Owner Lease Agreement (where applicant is not the registered owner of the property)
Legal Entity	Certified Copy of Identity Document/Company Registration Certificate
BBBEE (Information submitted as part of NERSA/National Treasury bid will suffice)	Social and Labour Plan (Job Creation/Social Investment) Proof of BEE Status <u>Copy of Share Certificates</u> Details of HDI Partners/Beneficiaries
Other Regulatory Requirements	Copy of Environmental Impact Assessment Report Copy of Environmental Authorization (Record of Decision) Copy of NERSA Licence/Proof of Bid Allocated by National Treasury Viability/feasibility reports
Water Resource Technical Report	Water requirements and availability Water balance Design drawings Water use efficiency Integrated water and waste management plan (pollution control; emergency preparedness, etc.) Section 27 NWA Motivation

From: Elsabe Swart <elsabe.dtec@gmail.com>
To: bryan fisher <croninroad@gmail.com>, BFisher <bfisher@ncpg.gov.za>, Nanine van Olmen Phillips <nvanolmen@ncpg.gov.za>, Nanine <naninevanolmen@live.nl>, <RAbed@csir.co.za> <oriba.denc@gmail.com>, Jacoline Mans <JacolineMa@daff.gov.za>
Date: 05/11/2015 11:26
Subject: Renewable Energy: 3x PV facilities, Kenhardt district
Attachments: Scoping_Three Solar PV Facility near Kenhardt_CSIR_Sdlf.pdf

Dear Abed

The following proposed developments have reference:

Kenhardt PV 1: CSIR/CAS/EMS/ER/2015/0007/B

Kenhardt PV 2: CSIR/CAS/EMS/ER/2015/0008/B

Kenhardt PV 3: CSIR/CAS/EMS/ER/2015/0009/B

Please refer to attached comments.

Regards
 Elsabe
 --
 E SWART
 DEPUTY DIRECTOR: RESEARCH AND DEVELOPMENT SUPPORT
 Pr.Sci.Nat.

Department of Environment and Nature Conservation
 Private Bag X6102
 Kimberley
 8300
 Tel. 053 - 807 7430/48
 Fax 053 - 831 3530
 Mobile 082 4582954
 elsabe.dtec@gmail.com



the denc

Department:
Environment & Nature Conservation
NORTHERN CAPE PROVINCE
REPUBLIC OF SOUTH AFRICA

0

Private Bag X6102, Kimberley, 8300, MeLife Towers, T-Floor, Tel: 053 807 7300, Fax: 053 807 7328

Enquites :
Dipatisilo :
Navrae : Samantha De la Fontaine
Imbuzo :

Date :
Letha :
Datum : 22 October 2015
Umhla :

Reference :
Tshupelo : Kenhardt PV 1: CSIR/CAS/EMS/ER/2015/0007/B
Verwysing : Kenhardt PV 2: CSIR/CAS/EMS/ER/2015/0008/B
Isalathiso : Kenhardt PV 3: CSIR/CAS/EMS/ER/2015/0009/B

ATTENTION:

MS G. BOTHA: HEAD OF DEPARTMENT: DEPARTMENT ENVIRONMENT & NATURE CONSERVATION
MS. N. VAN OLMEN: DIRECTOR: POLICY, PLANNING & COORDINATION
MS E. SWART: DEPUTY DIRECTOR: RESEARCH & DEVELOPMENT SUPPORT

RE: SCOPING REPORT: PROPOSED DEVELOPMENT OF THREE 75MW SOLAR PHOTOVOLTAIC FACILITIES AND ASSOCIATED ELECTRICAL INFRASTRUCTURE (KENHARDT PV 1 – 3) ON THE REMAINING EXTENT OF ONDER RUGZEER FARM 168, NORTH-EAST OF KENHARDT, NORTHERN CAPE PROVINCE

Kindly note: Due date for submission of comments for this phase of the proposed development is **27 October 2015**. A copy of the recommendations to be submitted to Rohaida Abed at RAbed@csir.co.za.

Background:

Scatec Solar SA 163 (PTY) Ltd, which consists of various subsidiary companies, is proposing to construct a renewable energy (RE) project consisting of three (3) photovoltaic (PV) facilities north-east of Kenhardt. The proposed project will have a collective footprint of 750 hectare with a combined power generation capacity of 225 MW (individual capacity of 75 MW each) and will be located on one property. Each of the three RE facilities are said to have a 132 kV transmission line to be connected to the Eskom Nieuwehoop Substation that is currently under construction.

Three separate Scoping / Environmental Impact Assessment (EIA) reports and Basic Assessment studies for the three PV facilities and their respective transmission lines will be submitted to the Department of Environmental Affairs for separate Environmental Authorisation (EA) applications with an integrated Public Participation Process.

Table 1. A summary of the three planned PV facilities. Scatec Solar SA 163 (PTY) Ltd consists of various subsidiary companies of which three of these will serve as the Project Applicant for one of each proposed PV facility near Kenhardt (taken from the CSIR's Information Letter to the respective I&APs).

Project Reference	Project Applicant	Generation Capacity	Project Footprint	Available Development Area
Kenhardt PV 1	Scatec Solar SA 330 (PTY) Ltd	75 MW	250 ha	450 ha
Kenhardt PV 2	Scatec Solar SA 350 (PTY) Ltd	75 MW	250 ha	540 ha
Kenhardt PV 3	Scatec Solar SA 370 (PTY) Ltd	75 MW	250 ha	1000 ha

The farm where these three PV facilities and their respective transmission lines are proposed is the following: the remaining extent of Boven Rugzeer No. 168 (i.e. all three facilities on one property). The Eskom Nieuwehoop substation is currently being constructed on an adjacent farm, i.e. Portion 3 of the Farm Gemsbok Bult No. 120. To note: the projects are proposed on farms currently owned by a third party and the properties will be leased from the land-owner for the entire lifespan of the project

Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

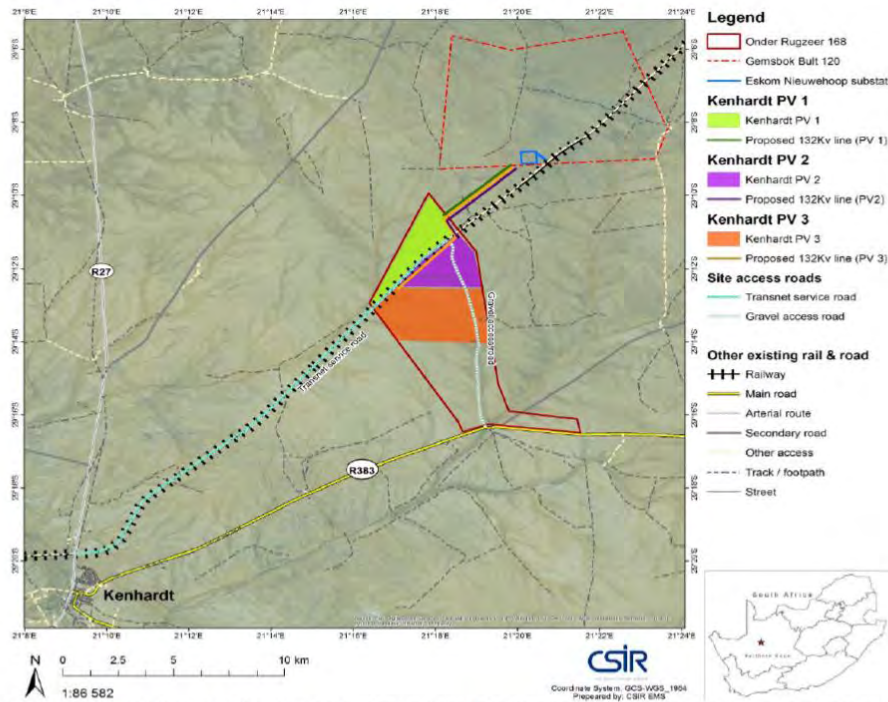


Figure 1. The proposed Three Solar PV developments near Kenhardt. The Eskom Nieuwehoop substation is currently being constructed north-east of the proposed development. The CSIR is also the EAP for a proposed Seven Solar PV Project on the farms just north of the current proposed development. The Seven Solar PV project will cover an area of 1 400 ha.

Herewith comments on the proposed development:

1. It should be noted that the areas where the proposed developments are to be constructed have been historically poorly surveyed, hence extrapolations from desktop studies for specialist's studies will give an incomplete representation of the biodiversity within the area (refer to Figure 2).
2. Large *Aloe dichotoma* populations are known to occur in the region. The species is protected under the Northern Cape Nature Conservation Act (Act 9 of 2009) and at present there is a moratorium in place in the Northern Cape on the removal of *A. dichotoma* from the wild due to historic trade related pressures on populations (Proclamation No 968, 1 April 2005). Hence, trees may not be removed until the moratorium is lifted. All trees within the development or close proximity thereof should be mapped and information provided with the EIA documents.
3. The proposed development do not form part of the Strategic Environmental Assessment (SEA) for Eskom's electricity grid upgrades and roll-outs as it falls outside one of the corridors identified by Eskom (i.e. the Western Corridor; one of the five identified corridors; refer to Figure 3). Comprehensive field surveys (within appropriate seasons) should thus be done for this specific area; it didn't form part of Eskom's assessment and the former project's surveys can thus not be used as baseline studies.
4. The proposed area does not fall within or close to an Important Bird Area (IBA), yet it does resort within a region of grids classified as being sensitive to Wind Farm facilities (refer to Figure 4). The darker the pendent the more sensitive the specific area is to Wind Farm facilities. Closer scrutiny regarding bird studies is thus a prerequisite due to possible impacts of birds on grid infrastructure as by implication local or regional migratory species that move around in response to surface water availability may be at risk from infrastructure collisions. It is also critical to point out that bird data for this area is based on the South African Bird Atlas Project 1 (SABAP1); data published in 1997 and recorded at a much broader scale than the SABAP2 data survey. Evidently, one can conclude that data for this area is outdated. This is specifically highlighted as a point of concern as each of the three PV projects will be separately linked to the Eskom grid through its own set of powerlines.
5. The development is proposed for an area that falls within the Bushmanland Arid Grassland, one of the most extensive vegetation types within the Northern Cape (Mucina and Rutherford, 2006). This

vegetation types is poorly conserved in formal protected areas and extensive areas have been historically overgrazed. As a result, large areas are currently degraded and drainage lines have been modified as a result of anthropogenic impacts. As a result of the extent of the area, impact would most likely be on landscape connectivity as the site is in close proximity of drainage lines and wetlands (refer to Figure 5).

6. It is advisable that RE facilities are not proposed for areas that favour local faunal diversity (e.g. endorheic pans, dry river washes, rocky outcrops, etc.).
- 6.1 The Northern Cape is water scarce province, hence any form of sustained water, has the potential to stimulate vegetative growth and attract faunal species.
- 6.2 Above-mentioned areas should be noted as sensitive areas during the EIA phase.
7. The disturbance of soil and indigenous vegetation can initiate the prolific growth of invasive alien plants (IAPs). The latter should be avoided by all means as it has detrimental impacts on indigenous faunal and floral species, as well as underground water resources. A proper IAP management plan must thus be factored into the EIA phase (as part of the EMP). Please consult the National Environment Management: Biodiversity Act's (Act No. 10 of 2004) Regulations on Alien and Invasive Species as promulgated on 1 August 2014.
8. Once the proponent decides on a project name, the latter should be made explicit. If the project name should change during the EIA phase of the project, this should be thoroughly communicated with all I&APs. It has come to light that RE project names continuously change for various reasons and confusion is then caused by the interchangeable use of the various project names for a single project.
9. It is advised that the consultants for this project liaise with the Forestry branch of the Department of Agriculture, Forestry and Fisheries (DAFF) if trees protected under the National Forest Act (Act No. 84 of 1998) are to be impacted by the proposed development.
10. If the proposed PV developments triggers biodiversity offsets under the DAFF due to the number of protected trees to be removed, this should be communicated with the DENC (contact Ms E. Swart at elsabe.dtec@gmail.com).

11. Information regarding the probability of a site-visit to be conducted by officials from DEA / DAFF should be communicated with the DENC. This is to ensure cooperative governance, liaison and to enable a collaborative site-visit to be conducted.

Conclusion and recommendations:

The proposed development is supported provided that the recommendations in this document are incorporated:

A. Specialist's studies:

- A thorough baseline survey of the grids 2921AB and 2921AD should be conducted during the EIA phase with at least the following biotic specialists: Ornithologist, Mammologist, Herpetologist (including amphibians) and Botanist.
 - Surveys for both the faunal and floral specialist reports should be done during the most optimum period for this area i.e. mid-summer to autumn, after the rains and during the growth season when maximum biota can be expected.
 - This should be done in order to give a good representation of the ecology in the area.
 - Due to the extreme variability in time and space of rainfall events, even a once-off survey within the rainy season will not provide a representative picture of the ecology of the area.
 - The number of plants of conservation concern (e.g. *Aloe dichotoma*, *Aloe spp.*, *Trichocaulon spp.*, *Hoodia spp.*, *Boscia spp.* etc. under the Northern Cape Nature Conservation Act No. 9 of 2009 and National Environmental Management: Biodiversity Act No. 10 of 2004, etc.) that may be directly affected by the development must be estimated during the EIA phase.
 - Large *Aloe dichotoma* [NCNCA protected spp.] populations are known to occur in the region and any populations in close proximity to the planned facilities must be mapped.

B. Bird Monitoring:

- Bird monitoring programmes should form part of the Environmental Management Programme.
 - Monitoring of birds over a full seasonal period (12 months) is supported.

- This will help to support a comparative lack of data on bird species in the study area from the SABAP database.
 - The information will also provide data on bird flight paths, risk of collision in specific areas, habitat niches etc.
 - An extensive monitoring area across the study area (i.e. non-resident species) is advised to comprehensively account for the movement of species.
 - Appropriate bird deterrent devices must be placed around the facility to lessen the impact caused by collision of avifauna with the development infrastructure (Hernandez *et al.*, 2014, Kagan *et al.*, 2014).
 - All Power lines should be clearly marked with bird flappers / markers.
 - Bird marker devices must be put on the earth wires (live wires) of the power line as oppose to the conductors [Bird Flight Divertor (BFD) as oppose to other bird marker devices are suggested (Anderson, 2001)].
 - Relevant Birdlife SA protocols should be consulted to conduct the EIA assessment for birds (Guide to Access Avian Data for Environmental Impact Assessment Reports, Retief *et al.* 2013; BirdLife South Africa / Endangered Wildlife Trust best practice guidelines for avian monitoring and impact mitigation at proposed wind energy development sites in southern Africa, Jenkins *et al.* 2012). Although the Jenkins and others guideline refers specifically to Wind farms, many of the principles apply for a thorough assessment. The electricity grid infrastructure especially remains a significant risk for bird collisions.
 - Potential impacts on water fowl such as flamingos, ducks and geese as well as large Terrestrial Birds such as bustards and korhaan as well as raptors must be investigated. Potential impacts must speak to the Renewable Energy technologies and infrastructure as well electricity grid infrastructure.
 - BirdLifeSA must be informed as I&AP to provide comment on the development.
 - SKA must be consulted as I&AP to provide comment on the development.
 - SAEON Arid Node must be informed as I&AP to provide comment on the development.
- C. Ecology and landscape connectivity:**
- The proponent should include in the EIA an environmental sensitivity map indicating environmental sensitive areas and features identified during the EIA process and map combining the final layout

plan overlain on the environmental sensitivity map. This map should be adequate in size to determine the extent of the development and to identify all aspects adequately as indicated on the maps. No-Go areas should be clearly identified.

- The final layout of the proposed developments (all 3 phases) and its constituents should be designed in such a manner as to enhance ecological value to fauna and flora within the area and to avoid pressures associated with surrounding farmland i.e. natural areas for greening and designing to support ecological corridors and landscape connectivity are strongly encouraged.
- The actual footprint for all activities related to the whole project (all Solar Park facilities) must be calculated to determine the total natural vegetation land cover transformation and loss. The collective and residual impact of all developments will be assessed also during permit applications. If the collective impact is assessed early enough the developer can better manage his risks and costs as he/she would know in advance whether a biodiversity offset is triggered also under DENC.
- If electrification of the property as security measure is considered, possible electrocution damage to small mammals such as pangolin and tortoises should be taken into consideration.
- Existing roads must be used as far as possible.
- The EIA should indicate how the Social-Agricultural-Conservation dynamic will change in terms of land use. Will the properties on which the developments occur still be actively farmed or will they become dormant or effectively be converted into conservation land with minimal land use management. Will problem animal control still occur as in standard practice in small livestock farming? How will fencing infrastructure change around the properties which has a bearing on problem animal control, but also on wildlife movement and landscape connectivity.
- The application must also be reviewed in the context of cumulative impacts of all RE developments in the region.

D. Environmental Management Programme:

- Training and awareness on the illegal poaching and removal of succulents (e.g. *Hoodia gordonii*, *Euphorbia spp.*) and the protected quiver tree, *Aloe dichotoma*.
- The EIA must address how risk of alien plant infestation by predominantly *Prosopis* will be addressed, since the region is known to be under threat from infestation.
- A proper invasive alien management plan should be written into the EMPr. The area should be kept clear of invasive alien species; active management is a prerequisite.

- Bird deterrent devices to lessen the impact caused by collision of avifauna with development infrastructure.
- Possible electrocution of small mammals should be taken into account if electric fences are considered as a security measure.
- Free movement of small mammals if the development property is to be fenced.
- Rehabilitation plans must be provided as to how post construction rehabilitation will be approached as well as operational phase control measures for protecting equipment, for example cutting / scraping / herbicide applications underneath solar panels.

We hope you find these recommendations in order and do not hesitate to contact the Research and Development Support Unit of the DENC if there are any uncertainties.

Yours sincerely



SAMANTHA DE LA FONTAINE
District Ecologist (Candidate Scientist)
Date: 22/10/2015

Recommendations supported / ~~Recommendations not supported~~



E. SWART
Deputy Director: Research & Development Support
Date: 5/11/2015

Cc. Bryan Fischer, Ordain Riba (EO: Impact Management, Upington), Jacoline Mans (Chief Forester: DAFF)

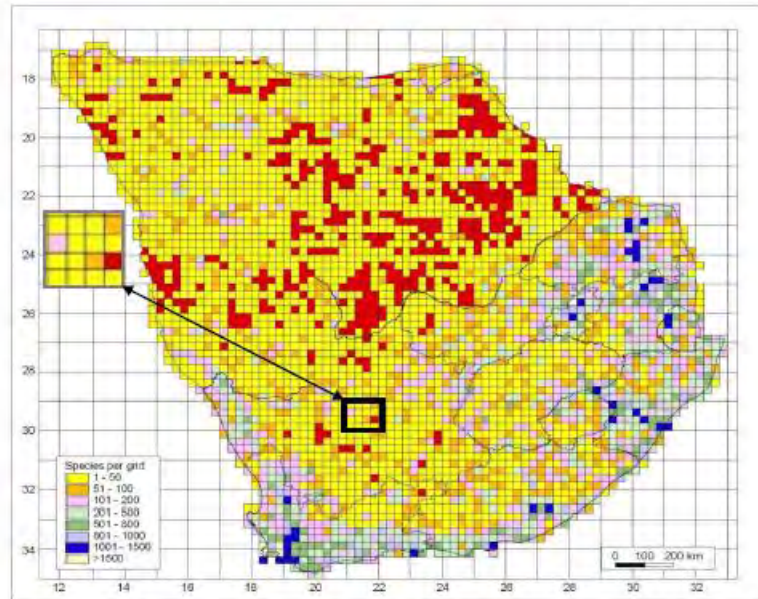


Figure 2. South African National Biodiversity Institute's (SANBI) PRECIS database (2013) indicating the number of plant specimens collected for specific Quarter Degree Grid Squares (QDGS). The proposed development falls within QDGS indicative of a very low species count (i.e. 1 – 50 species sampled per grid). Red squares denote zero specimens.

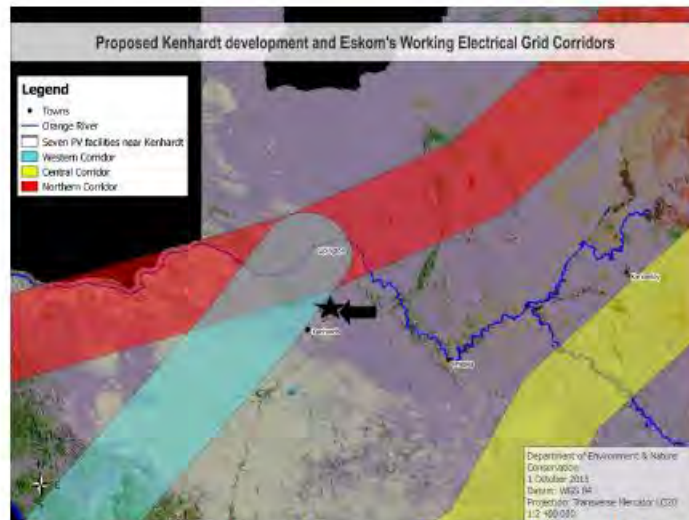


Figure 3. Strategic Environmental Assessment (SEA) for ESKOM's electricity grid upgrades and roll-outs (Feb 2014) in relation to the proposed development (black arrow) near Kenhardt. The proposed development falls outside one of the corridors identified by ESKOM (i.e. the Western Corridor; one of the five identified corridors), hence, it didn't form part of Eskom's assessment.

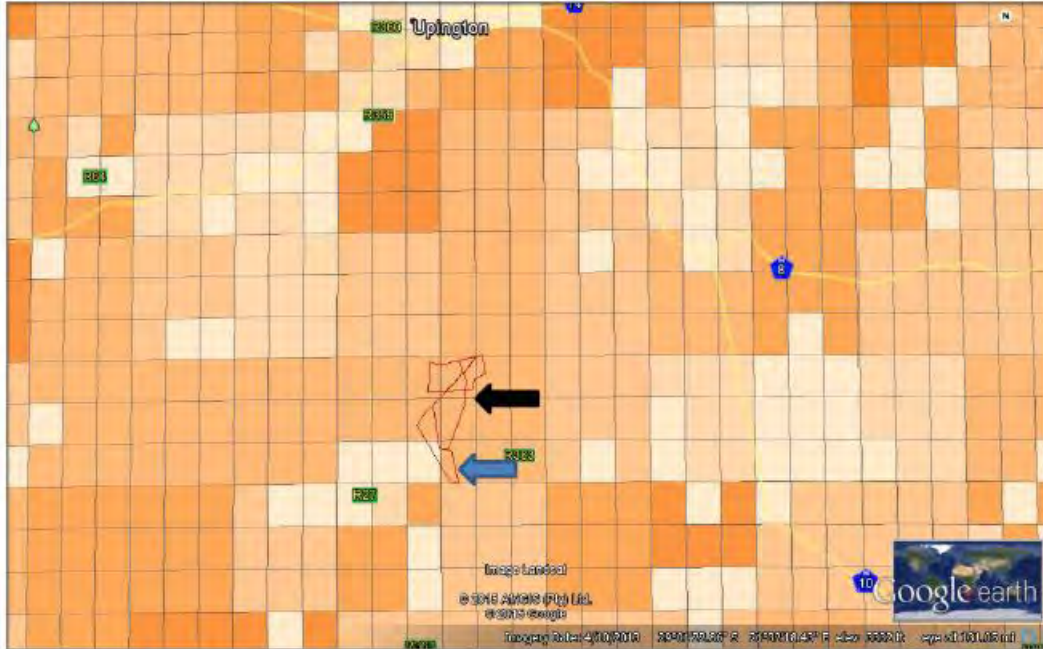


Figure 4. The three Solar PV facility (blue arrow) is proposed for an area classified as being sensitive to Wind Farm facilities. The darker the pentent the more sensitive the specific area is to Wind Farm facilities. Though the proposed development is not a Wind Farm facility it poses significant risks to birds through collision with grid infrastructure as each of the three facilities will have its own transmission lines connecting to the Eskom Nieuwehoop grid station north east of the proposed development. A seven Solar PV facility (black arrow) is proposed north east of the proposed three Solar PV facility, each also having its own transmission line.

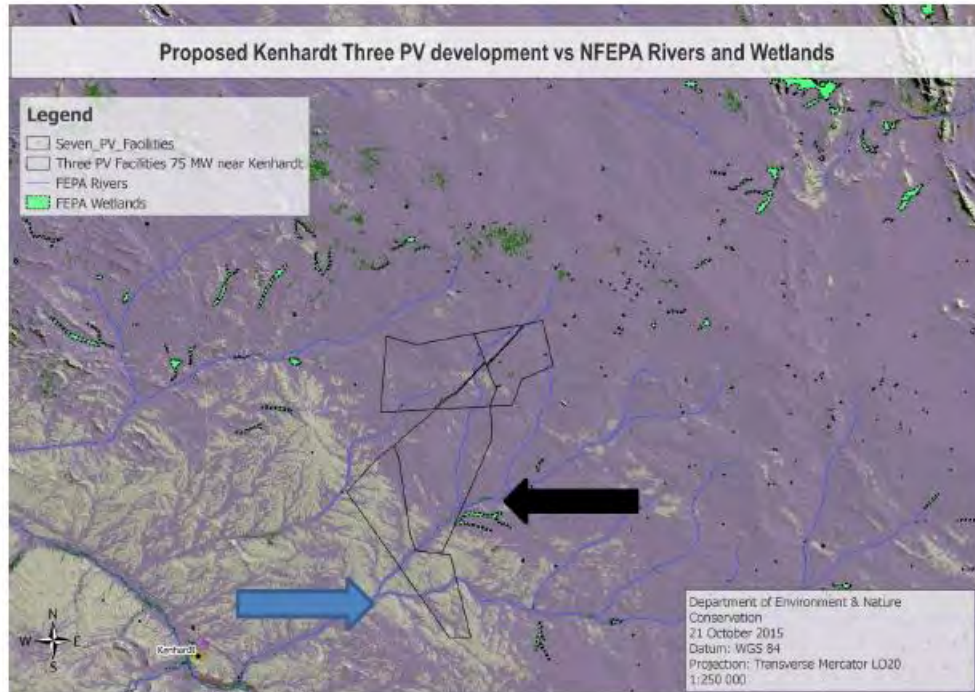


Figure 5. Several landscape scale connections through drainage lines are evident within the area in question. The two proposed facilities i.e. the Three Solar PV (blue arrow) and Seven Solar PV (black arrow) are to be located in close proximity of drainage lines and wetlands.

References

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- Hernandez, R. R., Easter, S. B., Murphy-Mariscal, M. L., Maestre, F. T., Tavassoli M., Allen, E. B., Barrows, C.W., Belnap, J., Ochoa-Hueso, R., Ravi S., and M. F. Allen. 2014. Environmental impacts of utility-scale solar energy. *Renewable and Sustainable Energy Reviews* **29**:766-779
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Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

From: JacolineMa <JacolineMa@daff.gov.za>
To: Elsabe Swart <elsabe.dtec@gmail.com>, bryan fisher <croninroad@gmail.com>, BFisher <bfisher@ncpg.gov.za>, Nanine van Olmen Phillips <nvanolmen@ncpg.gov.za>, Nanine <naninevanolmen@live.nl>, "RAbed@csir.co.za" <RAbed@csir.co.za>
CC: "oriba.denc@gmail.com" <oriba.denc@gmail.com>
Date: 05/11/2015 14:55
Subject: RE: Renewable Energy: 3x PV facilities, Kenhardt district

Noted, thank you.

Jacoline Mans
Designation: Chief Forester (NFARegulation)
Directorate: Forestry Management (Other Regions) Northern Cape
Department of Agriculture, Forestry and Fisheries
Tel: 054 338 5909
Fax: 054 334 0030
Web: www.daff.gov.za<<http://www.daff.gov.za>>
E-mail: JacolineMa@daff.gov.za<<mailto:JacolineMa@daff.gov.za>>

From: Elsabe Swart [<mailto:elsabe.dtec@gmail.com>]
Sent: 05 November 2015 11:25 AM
To: bryan fisher; BFisher; Nanine van Olmen Phillips; Nanine; RAbed@csir.co.za
Cc: oriba.denc@gmail.com; JacolineMa
Subject: Renewable Energy: 3x PV facilities, Kenhardt district

Dear Abed

The following proposed developments have reference:

Kenhardt PV 1: CSIR/CAS/EMS/ER/2015/0007/B

Kenhardt PV 2: CSIR/CAS/EMS/ER/2015/0008/B

Kenhardt PV 3: CSIR/CAS/EMS/ER/2015/0009/B

Please refer to attached comments.

Regards
Elsabe
--
E SWART
DEPUTY DIRECTOR: RESEARCH AND DEVELOPMENT SUPPORT
Pr.Sci.Nat.

Department of Environment and Nature Conservation
Private Bag X6102
Kimberley
8300
Tel. 053 - 807 7430/48
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environmental affairs

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Environmental Affairs
REPUBLIC OF SOUTH AFRICA

Private Bag X 447 · PRETORIA · 0001 · Environment House · 473 Steve Biko, Arcadia · PRETORIA
Tel (+ 27 12) 399 9372

DEA Reference: 14/12/16/3/3/2/836

Enquiries: Mr Herman Alberts

Telephone: (012) 399 9371 E-mail: HAlberts@henvironment.gov.za

Ms Surina Laurie
CSIR
PO Box 320
STELLENBOSCH
7599

Telephone Number: (021) 888 2490
Email Address: SLaurie@csir.co.za

PER E-MAIL / MAIL

Dear Ms Laurie

COMMENTS ON THE DRAFT SCOPING REPORT FOR THE PROPOSED DEVELOPMENT OF A 75 MW SOLAR PHOTOVOLTAIC FACILITY (KENHARDT PV 3) ON THE REMAINING EXTENT OF ONDER RUGZEER FARM 168, NORTH-EAST OF KENHARDT, NORTHERN CAPE PROVINCE

The draft Scoping Report (SR) dated September 2015 and received by this Department on 02 October 2015, and the acknowledgement letter of the SR issued by this Department on 23 October 2015 refer.

This Department has the following comments on the abovementioned application:

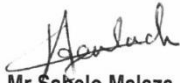
- i. Please ensure that all relevant listed activities are applied for, are specific and that it can be linked to the development activity or infrastructure as described in the project description.
- ii. If the activities applied for in the application form differ from those mentioned in the final SR, an amended application form must be submitted. 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>.
- iii. Please ensure that all issues raised and comments received during the circulation of the SR from registered I&APs and organs of state which have jurisdiction (including this Department's Biodiversity Section) in respect of the proposed activity are adequately addressed in the Final SR. Proof of correspondence with the various stakeholders must be included in the Final SR. Should you be unable to obtain comments, proof should be submitted to the Department of the attempts that were made to obtain comments. The Public Participation Process must be conducted in terms of Regulation 39, 40 41, 42, 43 & 44 of the EIA Regulations 2014.
- iv. Specialist studies must be submitted to the Department with the Final SR.
- v. Comments are required from SKA SA in the Final SR.
- vi. 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 GN R.982 of 2014. Alternatively, you should submit written proof of an investigation and motivation if no reasonable or feasible alternatives exist in terms of Appendix 2.
- vii. In accordance with Appendix 2 of the EIA Regulations 2014, the details of—

Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

- (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.
- viii. 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.
- ix. Further 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 timeframes prescribed in terms of the 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: Mr Coenrad Agenbach

Designation: Deputy Director: Strategic Infrastructure Developments

Date: 29/10/2015

cc:	Mitchell Hodgson	Scatec Solar SA 370 (Pty) Ltd	Email: Mitchell.hodgson@scatecsolar.com
	A Yahphi	NC DENC	Email: nyaphi@ncpg.gov.za

Copies of Correspondence from I&APs during the 30-day Review of the EIA Report

From: "Melanie Miles" <MelanieM@L2B.co.za>
To: "Rohaida Abed" <RAbed@csir.co.za>
Date: 22/02/2016 13:32
Subject: Re: Submission of Scoping Reports to the National DEA - Solar PV Facilities and Associated Electrical Infrastructure, Northern Cape

Dear Rohaida Abed,

Please could you advise if Environmental Authorisation has been received yet for the below developments?

I look forward to your response

Kindest Regards,

Melanie Miles
Content Researcher
MelanieM@L2B.co.za

Leads 2 Business (www.L2B.co.za)

0860836337 or 0860 TENDER
Fax: 033 343 5882

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Please note that any views expressed in this email may be those of the originator and do not necessarily reflect those of Cedrus Internet Solutions (Pty) Ltd.

From: Rohaida Abed
Sent: Wednesday, November 11, 2015 3:35 PM
To: Rohaida Abed
Subject: Submission of Scoping Reports to the National DEA - Solar PV Facilities and Associated Electrical Infrastructure, Northern Cape

Dear Stakeholders and Interested and Affected Parties

NOTICE OF SUBMISSION OF THE SCOPING REPORTS TO THE COMPETENT AUTHORITY FOR THE PROPOSED DEVELOPMENT OF THREE SOLAR PHOTOVOLTAIC (PV) FACILITIES (REFERRED TO AS KENHARDT PV 1, KENHARDT PV 2, AND KENHARDT PV 3) ON THE REMAINING EXTENT OF ONDER RUGZEER FARM 168, NORTH-EAST OF KENHARDT, NORTHERN CAPE PROVINCE

Competent Authority: National Department of Environmental Affairs

CSIR REFERENCE: EMS0102/SCATEC/2015

This e-mail correspondence serves to inform you of the submission of the Scoping Reports for the abovementioned proposed projects to the National Department of Environmental Affairs (DEA) for decision-making in terms of Regulation 22 of the 2014 National Environmental Management Act (Act 107 of 1998, as amended) (NEMA) Environmental Impact Assessment (EIA) Regulations. The Project Applicant is intending to develop three 75 Megawatt (MW) Solar Photovoltaic (PV) power generation facilities, located on the remaining extent of Onder Rugzeer Farm 168, approximately 80 km south of Upington and 30 km north-east of Kenhardt within the !Kheis Local Municipality, Northern Cape Province. The proposed 75 MW Solar PV projects are referred to as: Kenhardt PV 1, Kenhardt PV 2 and Kenhardt PV 3 respectively. The Project Applicant is Scatec Solar SA 330 (PTY) Ltd for Kenhardt PV 1, Scatec Solar SA 350 (PTY) Ltd for Kenhardt PV 2 and Scatec Solar SA 370 (PTY) Ltd for Kenhardt PV 3.

As a registered Interested and Affected Party (I&AP) on the project database, you were notified on 23 September 2015 via email and registered mail of the release of the Scoping Reports for the Kenhardt PV 1, Kenhardt PV 2 and Kenhardt PV 3 projects for a 30-day review period, which extended from 25 September 2015 to 27 October 2015. You were further informed on 6 October 2015 via email of the release of the Addendum to the Scoping Reports for the Kenhardt PV 1, Kenhardt PV 2 and Kenhardt PV 3 projects to all registered I&APs and stakeholders for an additional 30-day review period, which extended from 6 October 2015 to 5 November 2015.

Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

The comments received from stakeholders during the abovementioned 30-day review of both the Scoping Reports and Addendums have been incorporated into the finalised Scoping Reports (where required), as well as the Issues and Responses Trail (i.e. Chapter 7 of the finalised Scoping Reports). As noted above, the finalised Scoping Reports are currently being submitted to the National DEA, in accordance with Regulation 21 (1) of the 2014 NEMA EIA Regulations, for decision-making (i.e. acceptance or rejection) in terms of Regulation 22 of the 2014 NEMA EIA Regulations. If the Scoping Reports are approved by the National DEA, this approval will mark the end of the Scoping Phase after which the EIA Process moves into the impact assessment and reporting phase.

For information purposes, the finalised Scoping Reports for the Kenhardt PV 1, Kenhardt PV 2 and Kenhardt PV 3 projects have been placed on the project website: <http://www.csir.co.za/eia/ScatecSolarPV/>

Thank you and kind regards,

Rohaida Abed
CSIR - Environmental Management Services
P. O. Box 17001, Congella, Durban, 4013
Tel: 031 242 2300
Fax: 031 261 2509
Email: RAbed@csir.co.za

From: "Karen Low" <karen@mulilo.com>
To: "Rohaida Abed" <RAbed@csir.co.za>
Date: 07/03/2016 13:57
Subject: RE: Release of EIA and BA Reports - Solar PV Facilities and Associated Electrical Infrastructure, Northern Cape

Hi Rohaida,

Please check your weblinks – we are unable to download the EIA reports.

Many thanks,

Karen

Karen Low (Pri. Sci. Nat.)

Environmental Manager

Tel: +27 21 934 5278 Fax: +27 21 935 0505 Email: <<mailto:karen@mulilo.com>> karen@mulilo.com
Physical: 303c Execujet Business Centre Tower Road Cape Town International Airport South Africa 7525
Postal: PO Box 50 Cape Town International Airport South Africa 7525

From: Rohaida Abed [<mailto:RAbed@csir.co.za>]
Sent: 4 March 2016 5:05 pm
To: Rohaida Abed <RAbed@csir.co.za>
Subject: Release of EIA and BA Reports - Solar PV Facilities and Associated Electrical Infrastructure, Northern Cape

Dear Stakeholders and Interested and Affected Parties

NOTICE OF RELEASE OF ENVIRONMENTAL IMPACT ASSESSMENT (EIA) AND BASIC ASSESSMENT (BA) REPORTS FOR THE PROPOSED DEVELOPMENT OF THREE SOLAR PHOTOVOLTAIC (PV) FACILITIES AND ASSOCIATED ELECTRICAL INFRASTRUCTURE, NORTH-EAST OF KENHARDT, NORTHERN CAPE PROVINCE

Competent Authority: National Department of Environmental Affairs

CSIR REFERENCE: EMS0102/SCATEC/2015

This e-mail correspondence serves to inform you of the release of EIA and BA Reports for the development of three 75 Megawatt (MW) Solar PV power generation facilities, located on the remaining extent of Onder Rugzeer Farm 168, approximately 80 km south of Upington and 30 km north-east of Kenhardt within the !Kheis Local Municipality, Northern Cape Province. The proposed 75 MW Solar PV projects are referred to as: Kenhardt PV 1, Kenhardt PV 2 and Kenhardt PV 3 respectively. The proposed 75 MW Solar PV facilities will connect (via transmission lines and associated electrical infrastructure) to the Eskom Nieuwehoop Substation (which is currently being constructed) on the remaining extent of Portion 3 of Gembok Bult Farm 120. These transmission line projects are referred to as: Kenhardt PV 1 – Transmission Line, Kenhardt PV 2 – Transmission Line and Kenhardt PV 3 – Transmission Line.

In terms of the National Environmental Management Act (Act 107 of 1998, as amended) (NEMA) and the 2014 NEMA EIA Regulations promulgated in Government Gazette 38282 and Government Notice (GN) R982, R983, R984 and R985 on 8

Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

December 2014, the proposed projects require a full Scoping and EIA Process for the construction of the three Solar PV facilities. Separate BA processes are also required for the development of the proposed transmission lines and electrical infrastructure. The CSIR has been appointed by Scatec Solar to undertake the requisite BA, and Scoping and EIA Processes for the proposed projects.

Separate Applications for Environmental Authorisation (EA) for the Scoping and EIA Projects were lodged with the Competent Authority (i.e. the National Department of Environmental Affairs (DEA)) on 30 September 2015 (together with the Scoping Reports, which were accepted by the DEA on 8 December 2015). The Applications for EA for the BA projects will be submitted to the DEA together with the BA and EIA Reports for comment. An integrated Public Participation Process is being undertaken for the proposed projects as they are located within the same geographical area and constitute the same type of activity. However, separate reports (i.e. BA, Scoping and EIA Reports) have been compiled for each project.

In line with the above, as a registered Interested and Affected Party (I&AP) on the project database, you are hereby notified of the release of the BA and EIA Reports for the proposed projects for a 30-day review period, which will extend from 3 March 2016 to 5 April 2016.

Please find attached the following:

- Letter 3 to I&APs; and
- Comment and Registration Form.

In addition, the above-mentioned project information can be accessed at the following website: <http://www.csir.co.za/eia/ScatecSolarPV/>

Kindly ensure that all comments are submitted to the CSIR Project Manager (details provided below) by 5 April 2016.

Thank you and kind regards,

Rohaida Abed

CSIR - Environmental Management Services
P. O. Box 17001, Congella, Durban, 4013
Tel: 031 242 2300
Fax: 031 261 2509
Email: RAbed@csir.co.za

From: Natasha Higgitt <nhiggitt@sahra.org.za>
To: <RAbed@csir.co.za>
Date: 08/03/2016 11:35
Subject: Re: Release of EIA and BA Reports - Solar PV Facilities and Associated Electrical Infrastructure, Northern Cape

Good morning,

Thank you for notifying SAHRA of the update to the projects. Please note that SAHRA does not accept email, hardcopy or posted submissions. Please ensure that all relevant documents are uploaded to the correct case files on SAHRIS. I am assuming that the case files that refer to these projects are as follows:

Kenhardt PV1: Case ID: 8204 (<http://sahra.org.za/sahris/cases/scoping-and-eia-proposed-development-75-mw-solar-photovoltaic-facility-north-east-kenhardt>)
Kenhardt PV 2: Case ID: 8205 (<http://sahra.org.za/sahris/cases/scoping-and-eia-proposed-development-75-mw-solar-photovoltaic-facility-north-east-kenhardt-0>)
Kenhardt PV 3: Case ID: 8206 (<http://sahra.org.za/sahris/cases/scoping-and-eia-proposed-development-75-mw-solar-photovoltaic-facility-north-east-kenhardt-1>)

Please let me know if you have any further queries.

Kind Regards,

Natasha Higgitt
Heritage Officer: Archaeology, Palaeontology and Meteorites Unit

South African Heritage Resources Agency
- A nation united through heritage -

T: +27 21 462 4502 | C: +27 82 507 0378 | F: +27 21 462 4509
E: nhiggitt@sahra.org.za | 111 Harrington Street | Cape Town
www.sahra.org.za

Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

Kind Regards,

Natasha Higgitt
Heritage Officer: Archaeology, Palaeontology and Meteorites Unit

South African Heritage Resources Agency
- A nation united through heritage -

T: +27 21 462 4502 | C: +27 82 507 0378 | F: +27 21 462 4509
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www.sahra.org.za

----- Original Message -----

From: "Rohaida Abed" <RAbed@csir.co.za>
To: "Rohaida Abed" <RAbed@csir.co.za>
Sent: Friday, 4 March, 2016 5:05:03 PM
Subject: Release of EIA and BA Reports - Solar PV Facilities and Associated Electrical Infrastructure, Northern Cape

Dear Stakeholders and Interested and Affected Parties

NOTICE OF RELEASE OF ENVIRONMENTAL IMPACT ASSESSMENT (EIA) AND BASIC ASSESSMENT (BA) REPORTS FOR THE PROPOSED DEVELOPMENT OF THREE SOLAR PHOTOVOLTAIC (PV) FACILITIES AND ASSOCIATED ELECTRICAL INFRASTRUCTURE, NORTH-EAST OF KENHARDT, NORTHERN CAPE PROVINCE

Competent Authority: National Department of Environmental Affairs

CSIR REFERENCE: EMS0102/SCATEC/2015

This e-mail correspondence serves to inform you of the release of EIA and BA Reports for the development of three 75 Megawatt (MW) Solar PV power generation facilities, located on the remaining extent of Onder Rugzeer Farm 168, approximately 80 km south of Upington and 30 km north-east of Kenhardt within the !Kheis Local Municipality, Northern Cape Province. The proposed 75 MW Solar PV projects are referred to as: Kenhardt PV 1, Kenhardt PV 2 and Kenhardt PV 3 respectively. The proposed 75 MW Solar PV facilities will connect (via transmission lines and associated electrical infrastructure) to the Eskom Nieuwehoop Substation (which is currently being constructed) on the remaining extent of Portion 3 of Gemsbok Bult Farm 120. These transmission line projects are referred to as: Kenhardt PV 1 – Transmission Line, Kenhardt PV 2 – Transmission Line and Kenhardt PV 3 – Transmission Line.

In terms of the National Environmental Management Act (Act 107 of 1998, as amended) (NEMA) and the 2014 NEMA EIA Regulations promulgated in Government Gazette 38282 and Government Notice (GN) R982, R983, R984 and R985 on 8 December 2014, the proposed projects require a full Scoping and EIA Process for the construction of the three Solar PV facilities. Separate BA processes are also required for the development of the proposed transmission lines and electrical infrastructure. The CSIR has been appointed by Scatec Solar to undertake the requisite BA, and Scoping and EIA Processes for the proposed projects.

Separate Applications for Environmental Authorisation (EA) for the Scoping and EIA Projects were lodged with the Competent Authority (i.e. the National Department of Environmental Affairs (DEA)) on 30 September 2015 (together with the Scoping Reports, which were accepted by the DEA on 8 December 2015). The Applications for EA for the BA projects will be submitted to the DEA together with the BA and EIA Reports for comment. An integrated Public Participation Process is being undertaken for the proposed projects as they are located within the same geographical area and constitute the same type of activity. However, separate reports (i.e. BA, Scoping and EIA Reports) have been compiled for each project.

In line with the above, as a registered Interested and Affected Party (I&AP) on the project database, you are hereby notified of the release of the BA and EIA Reports for the proposed projects for a 30-day review period, which will extend from 3 March 2016 to 5 April 2016.

Please find attached the following:

- Letter 3 to I&APs; and
- Comment and Registration Form.

In addition, the above-mentioned project information can be accessed at the following website:
<http://www.csir.co.za/eia/ScatecSolarPV/>

Kindly ensure that all comments are submitted to the CSIR Project Manager (details provided below) by 5 April 2016.

Thank you and kind regards,

Rohaida Abed

Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

CSIR - Environmental Management Services
P. O. Box 17001, Congella, Durban, 4013
Tel: 031 242 2300
Fax: 031 261 2509
Email: RAbed@csir.co.za

Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

4/6/2016

Submission of HIA and Desktop PIA | SAHRA

SAHRIS

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Submission of HIA and Desktop PIA

Between you, [natasha.higgitt](#) and [ragna.redelstorf](#)

You Mar 16

Hi Ragna and Natasha

I trust that you are well. My email correspondence sent on 4 March 2016 regarding the release of the BA Reports for the Kenhardt PV 1 - Transmission Line, Kenhardt PV 2 - Transmission Line and Kenhardt PV 3 - Transmission Line Projects, and the EIA Reports for the Kenhardt PV 1, Kenhardt PV 2 and Kenhardt PV 3 Projects have reference. The Heritage Impact Assessments and Desktop Palaeontological Impact Assessments have been uploaded to SAHRIS for all six projects (Case References: 8204, 8205, 8206, 8207, 8208 and 8209).

Updated KML files, showing a transmission line corridor, have been uploaded to the mapping information section and additional documents section. All transmission lines for the three BA projects (Case References: 8207, 8208 and 8209) will be constructed within this corridor. I have removed the previous transmission line KML file that was uploaded previously. Please refer to the corridor uploaded today.

Updated KML files, showing the slightly revised Kenhardt PV 2 and PV 3 area, have been uploaded to the mapping information section and additional documents section. I have removed the PV area KML file that was uploaded previously. Please refer to the areas uploaded today. The additional documents section also includes KML files for the 250 ha area of the PV sites (for the EIA Projects, (Case References: 8204, 8205 and 8206)).

Thank you
Rohaida

CaseReference:

[Scoping and EIA for the Proposed Development of a 75 MW Solar Photovoltaic Facility north-east of Kenhardt, Northern Cape Province \(Kenhardt PV 1\)](#)

[Scoping and EIA for the Proposed Development of a 75 MW Solar Photovoltaic Facility north-east of Kenhardt, Northern Cape Province \(Kenhardt PV 2\)](#)

[Scoping and EIA for the Proposed Development of a 75 MW Solar Photovoltaic Facility north-east of Kenhardt, Northern Cape Province \(Kenhardt PV 3\)](#)

[BA for the Proposed Development of a Transmission Line north-east of Kenhardt, Northern Cape Province \(Kenhardt PV 1 - Transmission Line\)](#)

[BA for the Proposed Development of a Transmission Line north-east of Kenhardt, Northern Cape Province \(Kenhardt PV 2 - Transmission Line\)](#)

[BA for the Proposed Development of a Transmission Line north-east of Kenhardt, Northern Cape Province \(Kenhardt PV 3 - Transmission Line\)](#)

[natasha.higgitt](#) Mar 17

Good morning,

Thank you for notifying SAHRA of the update. I will inform you when comments have been issued.

Regards,
Natasha Higgitt

[natasha.higgitt](#) Mar 22

Good afternoon,

I have started looking at the Kenhardt cases that were updated last week and I have noticed that three cases are missing their EIAs. Please ensure that the EIAs are uploaded to the case files so that I have all the relevant information in order to provide comments. Additionally, the appendices from the all the reports (EIAs and BARs) have not been uploaded to the case files. We need all the documents including all appendices to be submitted so that we can assess the case in its entirety. Appendices such as the maps, facility illustrations and public participation are particularly necessary. Please upload these documents to the case files so that we can process them without delay.

Regards,
Natasha Higgitt

You Mar 23

Dear Natasha

Thank you for your email, Apologies, we only uploaded the conclusions, EMPr and HIA and PIA for the EIA Projects and the BA Reports. HIA, PIA and EMPr for the BA Projects due to the file sizes which exceed 25 MB. All the appendices and chapters for all six projects (Case References: 8204, 8205, 8206, 8207, 8208 and 8209) are larger than 25 MB and cannot be uploaded on SAHRIS. Would it be possible for you to please download the appendices and chapters from the project website (<http://www.csir.co.za/eia/ScatecSolarPV/> (<http://www.csir.co.za/eia/ScatecSolarPV/>)? Please let me know.

Thanks
Rohaida

[natasha.higgitt](#) Mar 29

Good afternoon,

I understand your dilemma, however we will accept the appendices and chapters in parts

<http://www.sahra.org.za/sahris/messages/view/17433>

1/2

Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

4/6/2016

Submission of HIA and Desktop PIA | SAHRA

i.e. Part 1 of Appendix A, Part 2 etc. which would allow you to split the documents into manageable sizes for upload. While we would be able to download the documents from your website to review, they still need to be uploaded to the case file for record keeping purposes and we cannot do this on behalf of the applicant/consultant.

Thank you for your co-operation in this regard.

You Mar 30

Hi Natasha

Thanks very much for your message and for accepting the files in parts, I have uploaded one complete file of all EIA chapters and two files for the appendices (Part 1 and Part 2) for the EIA Projects (8204, 8205 + 8206), I have also uploaded two files for the appendices (Part 1 and Part 2) for the BA Projects (8207, 8208 + 8209),

Thank you very much for your assistance with this. We look forward to your response. Would you be able to submit comments by 5 April 2016?

Thank you
Rohaïda

[natasha.higgitt](#) Mar 31

Good afternoon,

Thank you for uploading the documents. The website has been down for most of today, but I shall try my best to get comments to you by 5 April 2016.

You Mar 31

Hi Natasha

Thank you very much. we appreciate it.

Kind Regards
Rohaïda

[natasha.higgitt](#) Apr 5

Good afternoon,

Please note that comments have been issued on the above mentioned cases.

Kind regards,
Natasha Higgitt

You 1 min ago

Dear Natasha

Thank you very much for the comments. It is appreciated.

Kind Regards
Rohaïda

Reply

[CaseRef:raap](#)

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South African Heritage Resources
Agency (SAHRA)
Head Office
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PO Box 4637
Cape Town, 8000
Tel 021 452 4502/Fax 021 462 4509
Email info@sahra.org.za
Web www.sahra.org.za
<http://www.sahra.org.za>



An agency of the Department of Arts & Culture

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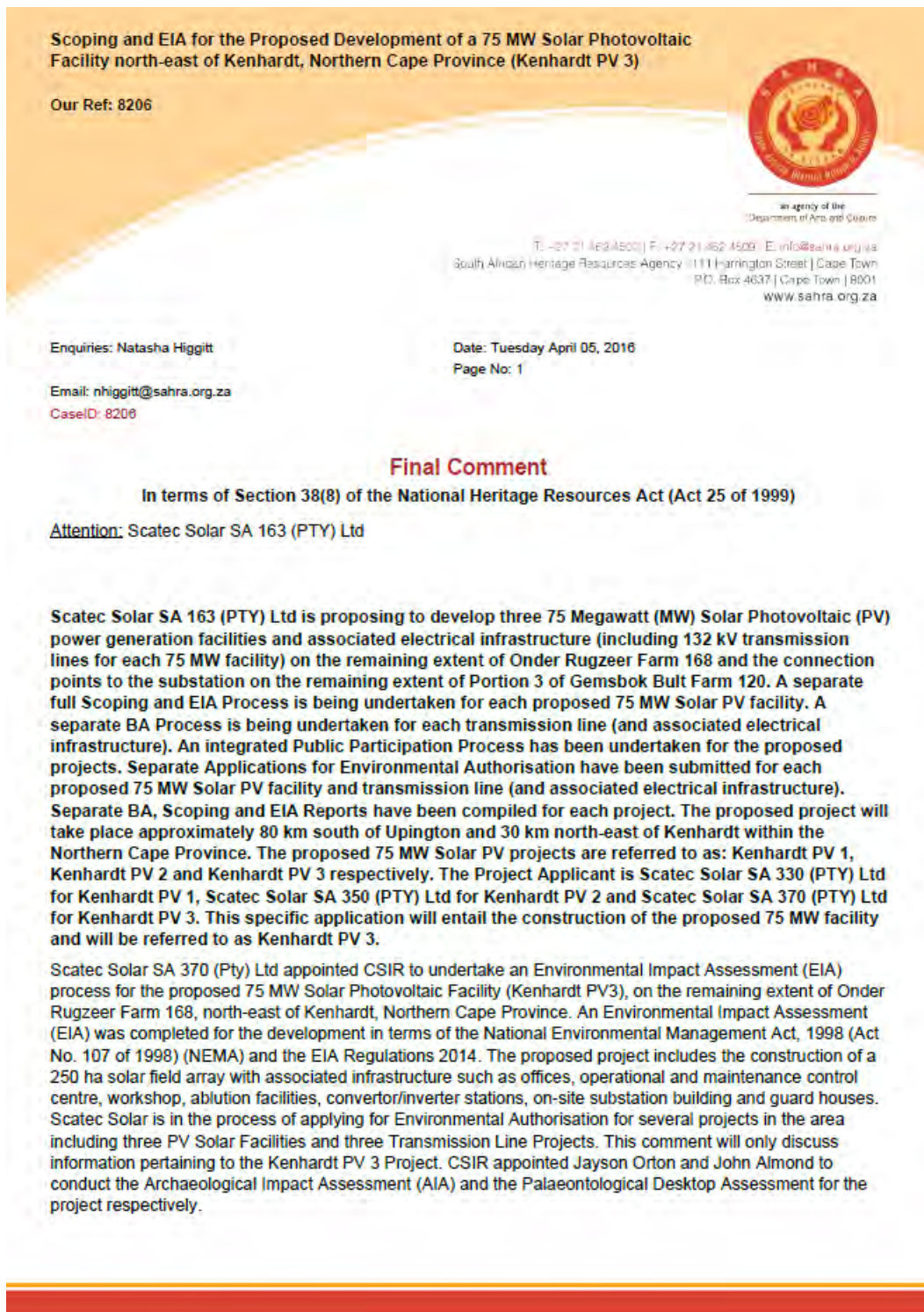
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<http://www.sahra.org.za/sahris/messages/view/17433>

2/2





Orton, 2016. Scoping and Environmental Impact Assessment for the Proposed Development of a 75 Mw Solar Photovoltaic Facility (Kenhardt Pv 3) on the Remaining Extent of Onder Rugzeer Farm 168, North-East Of Kenhardt, Northern Cape Province.

A total of 38 heritage resources were identified within the proposed project area. The majority of these sites were described as surface scatters of Middle Stone Age (MSA) and/or Later Stone Age (LSA) lithics or flaked quartz outcrops with associated stone artefacts. These were given a rating of low significance with a low impact from the proposed development activities. One site (waypoint 234) was rated a low-medium comprising a light LSA scatter of quartz, quartzite, CCS and silcrete located near a pan. Two sites were given a rating of medium significance i.e. Waypoint number 224 and 229. One of these sites (229) is described as a hollow within a pile of quartz blocks containing bottle glass, shotgun cartridge, ostrich eggshell fragments, two retouched CCS lithics and some quartz flakes. One site (waypoint 739) was given a high significance rating as a possible grave along with waypoint 746.

Recommendations provided in the report are as follows:

- Waypoint 234 must be avoided with a 40 m from the centre of the pan or conduct archaeological excavations to rescue artefacts and data;
- The two medium significance sites (224 and 229) were recommended to be avoided with a 25 m buffer or conduct archaeological excavations to rescue artefacts and data;
- A buffer of 5 m was recommended for the possible graves (739 and 746). Alternatively, it should be tested to ascertain whether it is a grave or not;
- The construction team should be made aware of the possibility of uncovering additional graves during construction and should report any suspicious stone features prior to disturbance;
- The built elements of the facility should be painted in an earthy colour to minimise visual impact on the landscape; and
- If any archaeological material or human burials are uncovered during the course of the development then work in the immediate area must be halted. The find would need to be reported to the heritage authorities and may require inspection by an archaeologist. Such heritage is the property of the state and may require excavation and curation in an approved institution.

Almond, 2015. Desktop Palaeontological Impact Assessment: Kenhardt PV 3 EIA

The preferred area for the PV facility is underlain by igneous and metamorphic rocks that are entirely unfossiliferous. Small patches of calcrete, gravelly to sandy river alluvium, pan sediments; surface gravels as well as Pleistocene to recent windblown sands of the Gordonia Formation may contain sparse fossil remains



Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

Scoping and EIA for the Proposed Development of a 75 MW Solar Photovoltaic Facility north-east of Kenhardt, Northern Cape Province (Kenhardt PV 3)

Our Ref: 8206



an agency of the
Department of Arts and Culture

T: +27 21 462 4500 | 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
Date: Tuesday April 05, 2016
Page No: 4

Email: nhiggitt@sahra.org.za
CaseID: 8206



Natasha Higgitt
Heritage Officer
South African Heritage Resources Agency



Phillip Hine
SAHRA Head Archaeologist (Acting)
South African Heritage Resources Agency

ADMIN:
Direct URL to case: <http://www.sahra.org.za/node/319862>
(DEA, Ref.)

Terms & Conditions:

1. This approval does not exonerate the applicant from obtaining local authority approval or any other necessary approval for proposed work.
2. If any heritage resources, including graves or human remains, are encountered they must be reported to SAHRA immediately.
3. SAHRA reserves the right to request additional information as required.

Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

From: Adrian Tiplady <atiplady@ska.ac.za>
To: Rohaida Abed <RAbed@csir.co.za>
CC: <temonama@ska.ac.za>
Date: 23/03/2016 08:28
Subject: Re: Fwd: Release of EIA and BA Reports - Solar PV Facilities and Associated Electrical Infrastructure, Northern Cape
Attachments: Letter reg CRR of Kenhardt PV1 -3 20160323.pdf

Hi Rohaida,

Please find attached.

Regards,

Adrian

On 18/03/2016 10:08 AM, Rohaida Abed wrote:

Dear Adrian

I trust that you are well. I am following up on the email below regarding the release of the EIA and BA Reports for the following projects:

- EIA Project: Kenhardt PV 1
- EIA Project: Kenhardt PV 2
- EIA Project: Kenhardt PV 3
- BA Project: Kenhardt PV 1 - Transmission Line
- BA Project: Kenhardt PV 2 - Transmission Line
- BA Project: Kenhardt PV 3 - Transmission Line

CD copies of the above reports have been sent to your office via courier. The above reports can also be downloaded from the project website: <http://www.csir.co.za/eia/ScatecSolarPV/>

The required EMI studies are included in Appendix K of the EIA Reports and Appendix D.9 of the BA Reports.

We would appreciate it if you could submit any comments by 5 April 2016.

Thanks and kind regards,

Rohaida

> >>> Rohaida Abed 04/03/2016 17:05 >>>

Dear Stakeholders and Interested and Affected Parties

NOTICE OF RELEASE OF ENVIRONMENTAL IMPACT ASSESSMENT (EIA) AND BASIC ASSESSMENT (BA) REPORTS FOR THE PROPOSED DEVELOPMENT OF THREE SOLAR PHOTOVOLTAIC (PV) FACILITIES AND ASSOCIATED ELECTRICAL INFRASTRUCTURE, NORTH-EAST OF KENHARDT, NORTHERN CAPE PROVINCE

Competent Authority: National Department of Environmental Affairs

CSIR REFERENCE: EMS0102/SCATEC/2015

This e-mail correspondence serves to inform you of the release of EIA and BA Reports for the development of three 75 Megawatt (MW) Solar PV power generation facilities, located on the remaining extent of Onder Rugzeer Farm 168, approximately 80 km south of Upington and 30 km north-east of Kenhardt within the !Kheis Local Municipality, Northern Cape Province. The proposed 75 MW Solar PV projects are referred to as: Kenhardt PV 1, Kenhardt PV 2 and Kenhardt PV 3 respectively. The proposed 75 MW Solar PV facilities will connect (via transmission lines and associated electrical infrastructure) to the Eskom Nieuwehoop Substation (which is currently being constructed) on the remaining extent of Portion 3 of Gemsbok Bult Farm 120. These transmission line projects are referred to as: Kenhardt PV 1 – Transmission Line, Kenhardt PV 2 – Transmission Line and Kenhardt PV 3 – Transmission Line.

In terms of the National Environmental Management Act (Act 107 of 1998, as amended) (NEMA) and the 2014 NEMA EIA Regulations promulgated in Government Gazette 38282 and Government Notice (GN) R982, R983, R984 and R985 on 8 December 2014, the proposed projects require a full Scoping and EIA Process for the construction of the three Solar PV facilities. Separate BA processes are also required for the development of the proposed transmission lines and electrical infrastructure. The CSIR has been appointed by Scatec Solar to undertake the requisite BA, and Scoping and EIA Processes for the proposed projects.

Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

Separate Applications for Environmental Authorisation (EA) for the Scoping and EIA Projects were lodged with the Competent Authority (i.e. the National Department of Environmental Affairs (DEA)) on 30 September 2015 (together with the Scoping Reports, which were accepted by the DEA on 8 December 2015). The Applications for EA for the BA projects will be submitted to the DEA together with the BA and EIA Reports for comment. An integrated Public Participation Process is being undertaken for the proposed projects as they are located within the same geographical area and constitute the same type of activity. However, separate reports (i.e. BA, Scoping and EIA Reports) have been compiled for each project.

In line with the above, as a registered Interested and Affected Party (I&AP) on the project database, you are hereby notified of the release of the BA and EIA Reports for the proposed projects for a 30-day review period, which will extend from 3 March 2016 to 5 April 2016.

Please find attached the following:

- Letter 3 to I&APs; and
- Comment and Registration Form.

In addition, the above-mentioned project information can be accessed at the following website:
<http://www.csir.co.za/eia/ScatecSolarPV/>

Kindly ensure that all comments are submitted to the CSIR Project Manager (details provided below) by 5 April 2016.

Thank you and kind regards,

Rohaida Abed

CSIR - Environmental Management Services
P. O. Box 17001, Congella, Durban, 4013
Tel: 031 242 2300
Fax: 031 261 2509
Email: RAbed@csir.co.za

--

Dr. Adrian Tiplady
SKA South Africa
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Johannesburg
South Africa
2196

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Email: afpiarty@ska.ac.za

Rohaida Abed
CSIR – Environmental Management Services
P.O. Box 17001
Congella
Durban
4013

E-mail: RAbed@csir.co.za

Date: 23 March 2016

Dear Rohaida,

Re: Development of three solar photovoltaic facilities (Kenhardt PV 1-3) and associated electrical infrastructure located north-east of Kenhardt in Northern Cape Province.

A high level risk assessment was conducted for the above mentioned photovoltaic electricity generation facilities, based on the distance to the nearest SKA station and information currently available on detailed designs of PV facilities. The results of the assessment show that the integrated risk posed by multiple PV facilities that are in close proximity could result in a medium to high detrimental impact on the SKA radio telescope.

The South Africa SKA Project Office communicated these results to the CSIR in a letter dated 17th August 2015. The letter proposed that an Electromagnetic Interference (EMI) study be conducted in order to scientifically validate the impact these PV facilities could have on the SKA radio telescope, and also to assist with setting up the required mitigation measures that meet SKA radio emission requirements. CSIR, in consultation with the developer Scatec Solar, appointed MESA Solutions (Pty) Ltd to conduct the appropriate Electromagnetic Interference studies. The SKA SA Project office received the cumulative topographical analysis report produced by MESA Solutions (Pty) Ltd, which was based on radio propagation simulations. Upon detailed review of the report by the SKA SA Project office, the following was concluded:

- i. The results from the report compiled by MESA Solution (Pty) Ltd confirm that the development of these facilities would pose a high risk of detrimental impact on the SKA radio telescope if constructed without appropriate mitigation measure being put in place;
- ii. The report indicates that between 20 and 40 dB of attenuation is technically achievable to mitigate the risk posed by the proposed facilities. However, the lower limit of this range is below what would be required to comply with the SKA protection requirements;



S O U T H A F R I C A S Q U A R E K I L O M E T R E A R R A Y
SKA South Africa Project Office





- iii. Assuming all proposed mitigation measures are implemented and achieve the expected attenuation, Kenhardt PV1 and Kenhardt PV3 would pose a low to medium risk of detrimental impact. Kenhardt PV2 would remain a high risk;
- iv. An appropriate EMC control plan should be developed to identify specific mitigation measures that will be implemented for Kenhardt PV1, 2 and 3. In particular, the measures implemented for Kenhardt PV2 should be tested and proven within a laboratory environment prior to construction approval;

It should be noted that, as this proposed facility is located in the declared Karoo Central Astronomy Advantage Area, the use of any wireless communication (ie. Bluetooth, Wifi, proprietary wireless communication) would be subject to compliance with the relevant AGA regulations promulgated for this area.

This technical advice is provided by the South African SKA Project Office on the basis of the protection requirements of the SKA in South Africa, and does not constitute legal approval of the renewable energy projects in terms of the Astronomy Geographic Advantage Act, the Management Authority, and its regulations or declarations.

Regards,

A handwritten signature in black ink, appearing to read 'Adrian Tiplady'.

Dr. Adrian Tiplady
Head of Strategy
SKA South Africa
Tel: 011 442 2434
Fax: 011 442 2454
atiplady@ska.ac.za



SOUTH AFRICA SQUARE KILOMETRE ARRAY
SKA South Africa Project Office



Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

From: "Cassie Carstens" <caspaas@telkomsa.net>
To: <RAbed@csir.co.za>
Date: 31/03/2016 16:09
Subject: FW: M400 scanned image
Attachments: 20160331145350.pdf

Goeie dag

Mnr. J.H. de Bruin het gevra dat ons hierdie vir u aanstuur.

Vriendelike Groete / Kind Regards

Cassie Carstens

epos: caspaas@telkomsa.net
Tel: 022-7132316
Faks: 022-7132318
Sel: 0825575993

Skoolstraat 13 / Posbus 540
VREDENBURG
7380

-----Original Message-----

From: caspaas@telkomsa.net [mailto:caspaas@telkomsa.net]
Sent: 31 March 2016 07:54 AM
To: caspaas@telkomsa.net
Subject: M400 scanned image

No Contents

Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

BASIC ASSESSMENT (BA) AND SCOPING AND ENVIRONMENTAL IMPACT ASSESSMENT (EIA) FOR THE PROPOSED DEVELOPMENT OF THREE SOLAR PHOTOVOLTAIC FACILITIES AND ASSOCIATED ELECTRICAL INFRASTRUCTURE NORTH-EAST OF KENHARDT, NORTHERN CAPE PROVINCE (KENHARDT PV 1, KENHARDT PV 2, KENHARDT PV 3, KENHARDT PV 1 – TRANSMISSION LINE, KENHARDT PV 2 – TRANSMISSION LINE, AND KENHARDT PV 3 – TRANSMISSION LINE)

RELEASE OF EIA REPORTS FOR KENHARDT PV 1, KENHARDT PV 2, KENHARDT PV 3 AND BA REPORTS FOR KENHARDT PV 1 – TRANSMISSION LINE, KENHARDT PV 2 – TRANSMISSION LINE, KENHARDT PV 3 – TRANSMISSION LINE

CSIR REFERENCE: EMS0102/SCATEC/2015

DEA REFERENCE: 14/12/16/3/3/2/837 (KENHARDT PV 1), 14/12/16/3/3/2/838 (KENHARDT PV 2) AND 14/12/16/3/3/2/836 (KENHARDT PV 3)

Project Applicant: Scatec Solar SA 330 (PTY) Ltd, Scatec Solar SA 350 (PTY) Ltd, and Scatec Solar SA 370 (PTY) Ltd

COMMENT AND REGISTRATION FORM

4 March 2016

Name: JOHN HENRY DE BRUIN	Telephone: 054 6510 290
Organisation: HENROHN SECURITY SERVICES	Fax: 086 763 4919
Designation: OWNER	Email: jdbhenrdn@gmail.com
Physical address: 62, ROOIBLOK KENHARDT 8900	Postal address: P.O. BOX 139 KENHARDT 8900

Please indicate if you would like to register as an Interested and Affected Party (I&AP) for the proposed projects. Registration is required in order to receive further correspondence during the Basic Assessment and Scoping and EIA Processes. Please tick the appropriate box.

YES	<input checked="" type="checkbox"/>
NO	<input type="checkbox"/>

Please indicate if you have any interest (business, financial, personal or other) in the proposed projects and/or the Applications for Environmental Authorisation:

BUSINESS INTEREST (SECURITY SERVICES)

Please describe any issues or concerns you may have regarding the proposed projects, which you think should be considered during the Basic Assessment and Scoping and EIA Processes.

Please provide details of any other individuals or organisations that should be registered as I&APs:

Please complete this Comment and Registration Form by **5 April 2016** and submit it to:

Rohaida Abed
CSIR
Postal Address: P. O. Box 17001, Congella, Durban, 4013
Tel: 031 242 2300
Fax: 031 261 2509
E-mail: RAbed@csir.co.za
Project Website: <http://www.csir.co.za/eia/ScatecSolarPV/>



Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

From: "Schwartz Chantel (UPN)" <SchwartzC@dws.gov.za>
To: Rohaida Abed <RAbed@csir.co.za>
Date: 01/04/2016 10:32
Subject: RE: Fwd: Release of EIA and BA Reports - Solar PV Facilities and Associated Electrical Infrastructure, Northern Cape

My apologies our power was out and as a result the phone lines were also down.

Kind regards,
Chantel

Ms Chantel Schwartz
Department of Water and Sanitation
Orange Proto-CMA
Tel: (054) 338- 5836
Fax: (054) 334-0205

From: Rohaida Abed [mailto:RAbed@csir.co.za]
Sent: 01 April 2016 09:33 AM
To: Schwartz Chantel (UPN)
Subject: Re: Fwd: Release of EIA and BA Reports - Solar PV Facilities and Associated Electrical Infrastructure, Northern Cape
Importance: High

Dear Chantel

Thanks for the discussion earlier. As discussed, the 6 reports as noted below were delivered to your offices via courier and they are available on the project website (as noted below). Please can you send us your comments by 5 April 2016.

Thanks and kind regards,
Rohaida

CSIR - Environmental Management Services
P. O. Box 17001, Congella, Durban, 4013
Tel: 031 242 2300
Fax: 031 261 2509
Email: RAbed@csir.co.za<mailto:RAbed@csir.co.za>

>>> Rohaida Abed 18/03/2016 10:13 >>>

Dear Chantel

I trust that you are well. I refer to the email below regarding the release of the EIA and BA Reports for the following projects:

- EIA Project: Kenhardt PV 1
- EIA Project: Kenhardt PV 2
- EIA Project: Kenhardt PV 3
- BA Project: Kenhardt PV 1 - Transmission Line
- BA Project: Kenhardt PV 2 - Transmission Line
- BA Project: Kenhardt PV 3 - Transmission Line

The above reports can be downloaded from the project website: <http://www.csir.co.za/eia/ScatecSolarPV/>

We would appreciate it if you could submit any comments to us by 5 April 2016.

Thanks and kind regards,
Rohaida

>>> Rohaida Abed 04/03/2016 17:05 >>>

Dear Stakeholders and Interested and Affected Parties

NOTICE OF RELEASE OF ENVIRONMENTAL IMPACT ASSESSMENT (EIA) AND BASIC ASSESSMENT (BA) REPORTS FOR THE PROPOSED DEVELOPMENT OF THREE SOLAR PHOTOVOLTAIC (PV) FACILITIES AND ASSOCIATED ELECTRICAL INFRASTRUCTURE, NORTH-EAST OF KENHARDT, NORTHERN CAPE PROVINCE

Competent Authority: National Department of Environmental Affairs

CSIR REFERENCE: EMS0102/SCATEC/2015

Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

This e-mail correspondence serves to inform you of the release of EIA and BA Reports for the development of three 75 Megawatt (MW) Solar PV power generation facilities, located on the remaining extent of Onder Rugzeer Farm 168, approximately 80 km south of Upington and 30 km north-east of Kenhardt within the !Kheis Local Municipality, Northern Cape Province. The proposed 75 MW Solar PV projects are referred to as: Kenhardt PV 1, Kenhardt PV 2 and Kenhardt PV 3 respectively. The proposed 75 MW Solar PV facilities will connect (via transmission lines and associated electrical infrastructure) to the Eskom Nieuwehoop Substation (which is currently being constructed) on the remaining extent of Portion 3 of Gemsbok Bult Farm 120. These transmission line projects are referred to as: Kenhardt PV 1 – Transmission Line, Kenhardt PV 2 – Transmission Line and Kenhardt PV 3 – Transmission Line.

In terms of the National Environmental Management Act (Act 107 of 1998, as amended) (NEMA) and the 2014 NEMA EIA Regulations promulgated in Government Gazette 38282 and Government Notice (GN) R982, R983, R984 and R985 on 8 December 2014, the proposed projects require a full Scoping and EIA Process for the construction of the three Solar PV facilities. Separate BA processes are also required for the development of the proposed transmission lines and electrical infrastructure. The CSIR has been appointed by Scatec Solar to undertake the requisite BA, and Scoping and EIA Processes for the proposed projects.

Separate Applications for Environmental Authorisation (EA) for the Scoping and EIA Projects were lodged with the Competent Authority (i.e. the National Department of Environmental Affairs (DEA)) on 30 September 2015 (together with the Scoping Reports, which were accepted by the DEA on 8 December 2015). The Applications for EA for the BA projects will be submitted to the DEA together with the BA and EIA Reports for comment. An integrated Public Participation Process is being undertaken for the proposed projects as they are located within the same geographical area and constitute the same type of activity. However, separate reports (i.e. BA, Scoping and EIA Reports) have been compiled for each project.

In line with the above, as a registered Interested and Affected Party (I&AP) on the project database, you are hereby notified of the release of the BA and EIA Reports for the proposed projects for a 30-day review period, which will extend from 3 March 2016 to 5 April 2016.

Please find attached the following:

- Letter 3 to I&APs; and
- Comment and Registration Form.

In addition, the above-mentioned project information can be accessed at the following website: <http://www.csir.co.za/eia/ScatecSolarPV/>

Kindly ensure that all comments are submitted to the CSIR Project Manager (details provided below) by 5 April 2016.

Thank you and kind regards,

Rohaida Abed

CSIR - Environmental Management Services
P. O. Box 17001, Congella, Durban, 4013
Tel: 031 242 2300
Fax: 031 261 2509
Email: RAbed@csir.co.za

Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province



BirdLife South Africa is a partner of BirdLife International, a global partnership of nature conservation organisations.
Member of IUCN, International Union for Conservation of Nature and Natural Resources.
Reg No: 001 - 298 NPC
PBO Registration No: P30004518

Rahaida Abed
PO Box 17001
Congella
Durban
4013

8 March 2016

Good day

Please note our change of address to Private Bag X5000, Parklands, Johannesburg, 2121.

We receive post from your office for Simon Gear.

Thank you for your kind attention.

Regards

Janine Goosen
Office Administrator

E-mail: Janine.goosen@birdlife.org.za
<http://www.birdlife.org.za>

Donations to BirdLife South Africa may contribute to your B-BBEE scorecard as we are fully SED compliant in terms of the B-BBEE Act. We are also a registered Public Benefit Organisation (No. P30004518) and authorised to issue 18A tax certificates where applicable.

BirdLife South Africa head office is supported by many generous donors, including The Royal Society for the Protection of Birds, F.H. Chamberlain, Honda, AVIS, Zeiss, Nedbank and Sappl, as well as a number of Corporate Members and Golden Bird Patrons.

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Email: info@birdlife.org.za
www.birdlife.org.za



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Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

From: "Schwartz Chantel (UPN)" <SchwartzC@dws.gov.za>
To: "RAbed@csir.co.za" <RAbed@csir.co.za>
Date: 05/04/2016 08:36
Subject: FW: Comments: Kenhardt PV 1,2 & 3
Attachments: Message from KM_C454e

My apologies, attached is the letter

Regards,
Chantel

Ms Chantel Schwartz
Department of Water and Sanitation
Orange Proto-CMA
Tel: (054) 338- 5836
Fax: (054) 334-0205

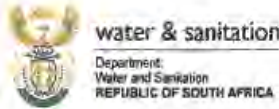
From: Schwartz Chantel (UPN)
Sent: 05 April 2016 08:32 AM
To: RAbed@csir.co.za
Subject: Comments: Kenhardt PV 1,2 & 3

Good Morning Rohaida

Find attached the Comments by the department on the Basic Assessment and Environmental Impact Assessment for Kenhardt PV 1,2,3

Regards,
Chantel

Ms Chantel Schwartz
Department of Water and Sanitation
Orange Proto-CMA
Tel: (054) 338- 5836
Fax: (054) 334-0205



Northern Cape Region
Lower Orange Water Management Area
Private Bag X5912, Upington, 8800
Tel: (054) 338-5800, Fax: (054) 334-0205, www.dws.gov.za

F 054 334 0205
E SchwartzC@dws.gov.za

C.Schwartz
054 338 5800
By Registered Mail

CSIR
P O Box 17001
Congella, Durban
4013
South Africa



Attention: Rohaida Abed

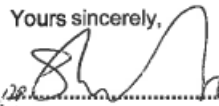
BASIC ASSESSMENT AND ENVIRONMENTAL IMPACT ASSESSMENT REPORT FOR THE PROPOSED DEVELOPMENT OF THREE SOLAR PHOTOVOLTAIC FACILITIES (REFERRED TO AS KENHARDT PV 1, KENHARDT PV 2 AND KENHARDT PV 3) AND ASSOCIATED INFRASTRUCTURE ON THE REMAINING EXTENT OF ONDER RUGZEER FARM 168, NORTH-EAST OF KENHARDT, NORTHERN CAPE PROVINCE

The Department of Water & Sanitation (DWS) hereby acknowledges receipt of your basic assessment and environmental impact assessment for the proposed development of Three Solar Photovoltaic Facilities (Referred to As Kenhardt Pv 1, Kenhardt Pv 2 And Kenhardt Pv 3) and associated infrastructure on the remaining extent of Onder Rugzeer Farm 168, North-East Of Kenhardt, Northern Cape Province. The department has reviewed the document and the comments are as follows:

- Please note that no development should take place within 100m horizontal distance from a water course or within 1:100 year flood line. Operation and storage of equipment within the riparian zone must be limited as far as possible.
- All sewage, grey and wash water, as well as any waste generated during the construction phase of the facilities will be collected, contained and disposed of at the permitted and / or licensed facilities of the Local Authority. Please note that proof of the agreement between the applicant and the concerned Local Authority must be submitted to this Department.

- Any spillage of any hazardous materials including diesel that may occur during construction and operation must be dealt with and reported immediately to this Department.
- Storm water must be diverted from the construction works and roads and must be managed in such a manner as to disperse runoff and to prevent the concentration of storm water flow. Where necessary, works must be constructed to attenuate the velocity of the storm water discharge and to protect the banks of the watercourse.
- Please note that no taking of water or storing of water from the water resource shall be lawful without a water use authorisation.

Due to the high number of renewable energy projects that are taking part in the Department of Energy [DOE] bidding process, this Department [DWS] will only process applications for water use authorisations received from developers who have attained preferred bidder status.

Yours sincerely,

.....
CEO (ACTING): ORANGE PROTO-CMA
DATE: 05/04/2016.

Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

From: "KhuthalaD" <KhuthalaD@daff.gov.za>
To: <RAbed@csir.co.za>
Date: 06/04/2016 12:21
Subject: Proposed development of three solar PV on the Remaining extent of Onder Rugzeer farm 168

Good day

Your application is ready to be presented but the layout plan which is attached is not clear please email me layout plan which will show three projects with the sizes.

Kind Regards

Khuthala

From: "Schwartz Chantel (UPN)" <SchwartzC@dws.gov.za>
To: Rohaida Abed <RAbed@csir.co.za>
Date: 07/04/2016 10:29
Subject: RE: FW: Comments: Kenhardt PV 1,2 & 3

Good Morning Rohaida

Yes, it is standard comments.

Kind Regards,
Chantel

Ms Chantel Schwartz
Department of Water and Sanitation
Orange Proto-CMA
Tel: (054) 338- 5836
Fax: (054) 334-0205

From: Rohaida Abed [mailto:RAbed@csir.co.za]
Sent: 06 April 2016 01:27 PM
To: Schwartz Chantel (UPN)
Subject: Re: FW: Comments: Kenhardt PV 1,2 & 3

Hi Chantel

Thank you very much for the comments on the Kenhardt PV 1, 2 and 3 EIA Reports. Do the comments also address and cover the three transmission line BA Reports, which were also sent to the Department together with the EIA Reports. The comment period closed yesterday and an integrated PPP is being undertaken. The BA Reports are referred to as Kenhardt PV 1 - Transmission Line, Kenhardt PV 2 - Transmission Line, and Kenhardt PV 3 - Transmission Line.

We look forward to your response.

Kind Regards
Rohaida

>>> "Schwartz Chantel (UPN)" <SchwartzC@dws.gov.za<mailto:SchwartzC@dws.gov.za>> 05/04/2016 08:33 >>>

My apologies, attached is the letter

Regards,
Chantel

Ms Chantel Schwartz
Department of Water and Sanitation
Orange Proto-CMA
Tel: (054) 338- 5836
Fax: (054) 334-0205

From: Schwartz Chantel (UPN)
Sent: 05 April 2016 08:32 AM
To: RAbed@csir.co.za
Subject: Comments: Kenhardt PV 1,2 & 3

Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

Good Morning Rohaida

Find attached the Comments by the department on the Basic Assessment and Environmental Impact Assessment for Kenhardt PV 1,2,3

Regards,
Chantel

Ms Chantel Schwartz
Department of Water and Sanitation
Orange Proto-CMA
Tel: (054) 338- 5836
Fax: (054) 334-0205

From: Adrian Tiplady <atiplady@ska.ac.za>
To: Surina Laurie <SLaurie@csir.co.za>
CC: Rohaida Abed <RAbed@csir.co.za>, Tshegofatso Monama <temonama@ska.ac.za>
Date: 07/04/2016 07:33
Subject: Re: Release of EIA and BA Reports - Solar PV Facilities and Associated Electrical Infrastructure, Northern Cape

Hi Surina,

1. Any medium or high risk means that, unless specific and detail mitigation measures are design and implemented, it would be a fatal flaw. Specifically, a high risk means that we think the amount of mitigation require will be technically very challenging, and that there is no guarantee is could be achievable. Medium risk means that the amount of mitigation is still technically challenging, but could be achievable. However, we would need to see evidence that such a process has taken place;
2. We would be comfortable that its a condition of the EA, but the condition must ensure that we are satisfied that the risk is mitigated completely before any construction takes place;
3. I can suggest MESA Solutions in Stellenbosch or ITC Services in Pretoria. What is important is that it is more than just tests required - but detailed design work as well;

Regards,

Adrian

On 06/04/2016 1:06 PM, Surina Laurie wrote:

Dear Adrian

Our commenting period closed yesterday and we are therefore finalising our reports.

Would it be possible to please provide feedback on the below? We are concerned that by not addressing these issues now, that the DEA will be unable to reach a decision.

Your input would be much appreciated.

Surina

Surina Laurie (Pr. Sci. Nat. Environmental Science)
Senior Environmental Assessment Practitioner
CSIR - Environmental Management Services
11 Jan Celliers Street, Stellenbosch
PO Box 320, Stellenbosch, 7599
Tel: 021 888 2490
Cell: 082 468 0962
Fax: 021 888 2693
Email: slaurie@csir.co.za

>>> Surina Laurie 31/03/2016 11:03 >>>

Hi Adrian

Called your office this morning but they said you are not available.

When you have some time, we would really appreciate your feedback on the below?

Kind regards

Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

Surina

Surina Laurie (Pr. Sci. Nat. Environmental Science)
Senior Environmental Assessment Practitioner
CSIR - Environmental Management Services
11 Jan Celliers Street, Stellenbosch
PO Box 320, Stellenbosch, 7599
Tel: 021 888 2490
Cell: 082 468 0962
Fax: 021 888 2693
Email: slaurie@csir.co.za

Hi Adrian

The letter received (and attached) from SKA has reference. Due to this being quite a technical component of the project, we are unsure what certain comments included in the letter mean. The points that are of relevance are detailed below, along with our questions in red:

iii. Assuming all proposed mitigation measures are implemented and achieve the expected attenuation, Kenhardt PV1 and Kenhardt PV3 would pose a low to medium risk of detrimental impact. Kenhardt PV2 would remain a high risk; Does this high risk mean that it is currently a fatal flaw to risk to the SKA project? And is a medium to low risk acceptable?

iv. An appropriate EMC control plan should be developed to identify specific mitigation measures that will be implemented for Kenhardt PV1, 2 and 3. In particular, the measures implemented for Kenhardt PV2 should be tested and proven within a laboratory environment prior to construction approval; Please clarify what does "prior to construction approval" mean? Should the lab testing be done prior to the a decision on Environmental Authorisation being issued or can this be included as a condition of the EA?

In addition, can SKA indicate what laboratory can be contacted for these tests? The Applicant has indicated that they are willing to fully comply but unsure how to implement the comments received.

If you would like to discuss this, please let me know when it will work for you?

Kind regards
Surina

Surina Laurie (Pr. Sci. Nat. Environmental Science)
Senior Environmental Assessment Practitioner
CSIR - Environmental Management Services
11 Jan Celliers Street, Stellenbosch
PO Box 320, Stellenbosch, 7599
Tel: 021 888 2490
Cell: 082 468 0962
Fax: 021 888 2693
Email: slaurie@csir.co.za

> >>> Adrian Tiplady <atiplady@ska.ac.za> 23/03/2016 08:28 >>>

Hi Rohaida,

Please find attached.

Regards,
Adrian

On 18/03/2016 10:08 AM, Rohaida Abed wrote:

Dear Adrian

I trust that you are well. I am following up on the email below regarding the release of the EIA and BA Reports for the following projects:

- EIA Project: Kenhardt PV 1
- EIA Project: Kenhardt PV 2
- EIA Project: Kenhardt PV 3
- BA Project: Kenhardt PV 1 - Transmission Line
- BA Project: Kenhardt PV 2 - Transmission Line
- BA Project: Kenhardt PV 3 - Transmission Line

CD copies of the above reports have been sent to your office via courier. The above reports can also be downloaded from the

Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

project website: <http://www.csir.co.za/eia/ScatecSolarPV/>

The required EMI studies are included in Appendix K of the EIA Reports and Appendix D.9 of the BA Reports.

We would appreciate it if you could submit any comments by 5 April 2016.

Thanks and kind regards,

Rohaida

> >>> Rohaida Abed 04/03/2016 17:05 >>>

Dear Stakeholders and Interested and Affected Parties

NOTICE OF RELEASE OF ENVIRONMENTAL IMPACT ASSESSMENT (EIA) AND BASIC ASSESSMENT (BA) REPORTS FOR THE PROPOSED DEVELOPMENT OF THREE SOLAR PHOTOVOLTAIC (PV) FACILITIES AND ASSOCIATED ELECTRICAL INFRASTRUCTURE, NORTH-EAST OF KENHARDT, NORTHERN CAPE PROVINCE

Competent Authority: National Department of Environmental Affairs

CSIR REFERENCE: EMS0102/SCATEC/2015

This e-mail correspondence serves to inform you of the release of EIA and BA Reports for the development of three 75 Megawatt (MW) Solar PV power generation facilities, located on the remaining extent of Onder Rugzeer Farm 168, approximately 80 km south of Upington and 30 km north-east of Kenhardt within the !Kheis Local Municipality, Northern Cape Province. The proposed 75 MW Solar PV projects are referred to as: Kenhardt PV 1, Kenhardt PV 2 and Kenhardt PV 3 respectively. The proposed 75 MW Solar PV facilities will connect (via transmission lines and associated electrical infrastructure) to the Eskom Nieuwehoop Substation (which is currently being constructed) on the remaining extent of Portion 3 of Gembok Bult Farm 120. These transmission line projects are referred to as: Kenhardt PV 1 – Transmission Line, Kenhardt PV 2 – Transmission Line and Kenhardt PV 3 – Transmission Line.

In terms of the National Environmental Management Act (Act 107 of 1998, as amended) (NEMA) and the 2014 NEMA EIA Regulations promulgated in Government Gazette 38282 and Government Notice (GN) R982, R983, R984 and R985 on 8 December 2014, the proposed projects require a full Scoping and EIA Process for the construction of the three Solar PV facilities. Separate BA processes are also required for the development of the proposed transmission lines and electrical infrastructure. The CSIR has been appointed by Scatec Solar to undertake the requisite BA, and Scoping and EIA Processes for the proposed projects.

Separate Applications for Environmental Authorisation (EA) for the Scoping and EIA Projects were lodged with the Competent Authority (i.e. the National Department of Environmental Affairs (DEA)) on 30 September 2015 (together with the Scoping Reports, which were accepted by the DEA on 8 December 2015). The Applications for EA for the BA projects will be submitted to the DEA together with the BA and EIA Reports for comment. An integrated Public Participation Process is being undertaken for the proposed projects as they are located within the same geographical area and constitute the same type of activity. However, separate reports (i.e. BA, Scoping and EIA Reports) have been compiled for each project.

In line with the above, as a registered Interested and Affected Party (I&AP) on the project database, you are hereby notified of the release of the BA and EIA Reports for the proposed projects for a 30-day review period, which will extend from 3 March 2016 to 5 April 2016.

Please find attached the following:

- Letter 3 to I&APs; and
- Comment and Registration Form.

In addition, the above-mentioned project information can be accessed at the following website: <http://www.csir.co.za/eia/ScatecSolarPV/>

Kindly ensure that all comments are submitted to the CSIR Project Manager (details provided below) by 5 April 2016.

Thank you and kind regards,

Rohaida Abed

CSIR - Environmental Management Services
P. O. Box 17001, Congella, Durban, 4013
Tel: 031 242 2300
Fax: 031 261 2509
Email: RAbed@csir.co.za

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Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

Dr. Adrian Tiplady
SKA South Africa
Johannesburg
+27 11 442 2434
+27 72 372 0134
www.ska.ac.za

From: JacolineMa <JacolineMa@daff.gov.za>
To: Rohaida Abed <RAbed@csir.co.za>
Date: 11/04/2016 09:07
Subject: RE: Release of EIA and BA Reports - Solar PV Facilities and Associated Electrical Infrastructure, Northern Cape

Dear Rohaida

I received the C.D. – thank you very much. I missed the due date. If you can allow additional time, I can go through the reports and submit comments, otherwise it will be useless to comment if you have already submitted to DEA. Please advise. I receive too many EIA reports and I simply cannot comment on all due to time constraints and other responsibilities. But if you need inputs and can allow extra time, I will try to submit comments by Wednesday, 13 April. Please let me know so I do not waste time.

Regards,

Jacoline Mans
Designation: Chief Forester (NFARegulation)
Directorate: Forestry Management (Other Regions) Northern Cape
Department of Agriculture, Forestry and Fisheries
Tel: 054 338 5909
Fax: 054 334 0030
Web: www.daff.gov.za<<http://www.daff.gov.za/>>
E-mail: JacolineMa@daff.gov.za<<mailto:JacolineMa@daff.gov.za>>

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From: Rohaida Abed [<mailto:RAbed@csir.co.za>]
Sent: 04 April 2016 09:22 AM
To: JacolineMa
Subject: Fwd: Release of EIA and BA Reports - Solar PV Facilities and Associated Electrical Infrastructure, Northern Cape

Dear Jacoline

I trust that you are well. I refer to the email below. Please can you confirm if you have any comments on the Kenhardt PV 1, 2 and 3 and Kenhardt PV Transmission Line reports.

We would appreciate it if you could submit any comments to us by 5 April 2016.

Thanks and kind regards,
Rohaida

>>> Rohaida Abed 18/03/2016 10:16 >>>

Dear Jacoline

I trust that you are well. I refer to the email below regarding the release of the EIA and BA Reports for the following projects:

- EIA Project: Kenhardt PV 1
- EIA Project: Kenhardt PV 2
- EIA Project: Kenhardt PV 3
- BA Project: Kenhardt PV 1 - Transmission Line
- BA Project: Kenhardt PV 2 - Transmission Line
- BA Project: Kenhardt PV 3 - Transmission Line

Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

CD copies of the above reports have been sent to your office via courier. The above reports can also be downloaded from the project website: <http://www.csir.co.za/eia/ScatecSolarPV/>

We would appreciate it if you could submit any comments to us by 5 April 2016.

Thanks and kind regards,
Rohaida

>>> Rohaida Abed 04/03/2016 17:05 >>>

Dear Stakeholders and Interested and Affected Parties

NOTICE OF RELEASE OF ENVIRONMENTAL IMPACT ASSESSMENT (EIA) AND BASIC ASSESSMENT (BA) REPORTS FOR THE PROPOSED DEVELOPMENT OF THREE SOLAR PHOTOVOLTAIC (PV) FACILITIES AND ASSOCIATED ELECTRICAL INFRASTRUCTURE, NORTH-EAST OF KENHARDT, NORTHERN CAPE PROVINCE

Competent Authority: National Department of Environmental Affairs

CSIR REFERENCE: EMS0102/SCATEC/2015

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In terms of the National Environmental Management Act (Act 107 of 1998, as amended) (NEMA) and the 2014 NEMA EIA Regulations promulgated in Government Gazette 38282 and Government Notice (GN) R982, R983, R984 and R985 on 8 December 2014, the proposed projects require a full Scoping and EIA Process for the construction of the three Solar PV facilities. Separate BA processes are also required for the development of the proposed transmission lines and electrical infrastructure. The CSIR has been appointed by Scatec Solar to undertake the requisite BA, and Scoping and EIA Processes for the proposed projects.

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In line with the above, as a registered Interested and Affected Party (I&AP) on the project database, you are hereby notified of the release of the BA and EIA Reports for the proposed projects for a 30-day review period, which will extend from 3 March 2016 to 5 April 2016.

Please find attached the following:

- Letter 3 to I&APs; and
- Comment and Registration Form.

In addition, the above-mentioned project information can be accessed at the following website: <http://www.csir.co.za/eia/ScatecSolarPV/>

Kindly ensure that all comments are submitted to the CSIR Project Manager (details provided below) by 5 April 2016.

Thank you and kind regards,

Rohaida Abed

CSIR - Environmental Management Services
P. O. Box 17001, Congella, Durban, 4013
Tel: 031 242 2300
Fax: 031 261 2509
Email: RAbed@csir.co.za

Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

From: JacolineMa <JacolineMa@daff.gov.za>
To: Rohaida Abed <RAbed@CSIR.CO.ZA>
Date: 12/04/2016 09:18
Subject: RE: Release of EIA and BA Reports - Solar PV Facilities and Associated Electrical Infrastructure, Northern Cape
Attachments: Message from minolta

Dear Rohaida

I only managed to go through one of the reports yesterday. I will try to look at the others today, but if I you do not hear from me by 16h00 this afternoon, please proceed with the printing and submission of your reports. Attached please find comments on the one project (Kenhardt PV 1 Transmission Line), CSIR Ref: EMS0102/SCATEC/2015).

Kind Regards,

Jacoline Mans
Designation: Chief Forester (NFARegulation)
Directorate: Forestry Management (Other Regions) Northern Cape
Department of Agriculture, Forestry and Fisheries
Tel: 054 338 5909
Fax: 054 334 0030
Web: www.daff.gov.za
E-mail: JacolineMa@daff.gov.za<mailto:JacolineMa@daff.gov.za>

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From: Rohaida Abed [mailto:RAbed@csir.co.za]
Sent: 11 April 2016 09:10 AM
To: JacolineMa
Subject: RE: Release of EIA and BA Reports - Solar PV Facilities and Associated Electrical Infrastructure, Northern Cape

Hi Jacoline

Thanks for your email, it is appreciated. We are submitting the final EIA Reports to DEA this week (i.e. by Thursday, 14 April) and need to start printing the reports tomorrow. Would it be possible for you to provide comments by tomorrow afternoon instead (12 April 2016)?

Please confirm?

Thanks
Rohaida

>>> JacolineMa <JacolineMa@daff.gov.za<mailto:JacolineMa@daff.gov.za>> > 11/04/2016 08:48 >>>

Dear Rohaida

I received the C.D. – thank you very much. I missed the due date. If you can allow additional time, I can go through the reports and submit comments, otherwise it will be useless to comment if you have already submitted to DEA. Please advise. I receive too many EIA reports and I simply cannot comment on all due to time constraints and other responsibilities. But if you need inputs and can allow extra time, I will try to submit comments by Wednesday, 13 April. Please let me know so I do not waste time.

Regards,

Jacoline Mans
Designation: Chief Forester (NFARegulation)
Directorate: Forestry Management (Other Regions) Northern Cape
Department of Agriculture, Forestry and Fisheries
Tel: 054 338 5909
Fax: 054 334 0030
Web: www.daff.gov.za
E-mail: JacolineMa@daff.gov.za<mailto:JacolineMa@daff.gov.za>

Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

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From: Rohaida Abed [mailto:RAbed@csir.co.za]
Sent: 04 April 2016 09:22 AM
To: JacolineMa
Subject: Fwd: Release of EIA and BA Reports - Solar PV Facilities and Associated Electrical Infrastructure, Northern Cape

Dear Jacoline

I trust that you are well. I refer to the email below. Please can you confirm if you have any comments on the Kenhardt PV 1, 2 and 3 and Kenhardt PV Transmission Line reports.

We would appreciate it if you could submit any comments to us by 5 April 2016.

Thanks and kind regards,
Rohaida

>>> Rohaida Abed 18/03/2016 10:16 >>>

Dear Jacoline

I trust that you are well. I refer to the email below regarding the release of the EIA and BA Reports for the following projects:

- EIA Project: Kenhardt PV 1
- EIA Project: Kenhardt PV 2
- EIA Project: Kenhardt PV 3
- BA Project: Kenhardt PV 1 - Transmission Line
- BA Project: Kenhardt PV 2 - Transmission Line
- BA Project: Kenhardt PV 3 - Transmission Line

CD copies of the above reports have been sent to your office via courier. The above reports can also be downloaded from the project website: <http://www.csir.co.za/eia/ScatecSolarPV/>

We would appreciate it if you could submit any comments to us by 5 April 2016.

Thanks and kind regards,
Rohaida

>>> Rohaida Abed 04/03/2016 17:05 >>>

Dear Stakeholders and Interested and Affected Parties

NOTICE OF RELEASE OF ENVIRONMENTAL IMPACT ASSESSMENT (EIA) AND BASIC ASSESSMENT (BA) REPORTS FOR THE PROPOSED DEVELOPMENT OF THREE SOLAR PHOTOVOLTAIC (PV) FACILITIES AND ASSOCIATED ELECTRICAL INFRASTRUCTURE, NORTH-EAST OF KENHARDT, NORTHERN CAPE PROVINCE

Competent Authority: National Department of Environmental Affairs

CSIR REFERENCE: EMS0102/SCATEC/2015

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Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

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- Letter 3 to I&APs; and
- Comment and Registration Form.

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Kindly ensure that all comments are submitted to the CSIR Project Manager (details provided below) by 5 April 2016.

Thank you and kind regards,

Rohaida Abed

CSIR - Environmental Management Services
P. O. Box 17001, Congella, Durban, 4013
Tel: 031 242 2300
Fax: 031 261 2509
Email: RAbed@csir.co.za

From: JacolineMa <JacolineMa@daff.gov.za>
To: Rohaida Abed <RAbed@csir.co.za>
Date: 12/04/2016 15:53
Subject: RE: Release of EIA and BA Reports - Solar PV Facilities and Associated Electrical Infrastructure, Northern Cape
Attachments: Message from minolta; Message from minolta; Message from minolta; Message from minolta

Dear Rohaida

Please find comments on the following 4 projects:

- 1) Kenhardt PV 3 Transmission Line
- 2) Kenhardt PV 1 Solar Photovoltaic Facility
- 3) Kenhardt PV 2 Solar Photovoltaic Facility
- 4) Kenhardt PV 3 Solar Photovoltaic Facility

I will not comment on the remaining project (Kenhardt PV 2 Transmission Line). The C.D. was not included in the pack with the others. Thank you for allowing the additional time.

Regards,

Jacoline Mans
Designation: Chief Forester (NFARegulation)
Directorate: Forestry Management (Other Regions) Northern Cape
Department of Agriculture, Forestry and Fisheries
Tel: 054 338 5909
Fax: 054 334 0030
Web: www.daff.gov.za
E-mail: JacolineMa@daff.gov.za

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Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

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From: Rohaida Abed [mailto:RAbed@csir.co.za]
Sent: 04 April 2016 09:22 AM
To: JacolineMa
Subject: Fwd: Release of EIA and BA Reports - Solar PV Facilities and Associated Electrical Infrastructure, Northern Cape

Dear Jacoline

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We would appreciate it if you could submit any comments to us by 5 April 2016.

Thanks and kind regards,
Rohaida

>>> Rohaida Abed 18/03/2016 10:16 >>>

Dear Jacoline

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- BA Project: Kenhardt PV 1 - Transmission Line
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- BA Project: Kenhardt PV 3 - Transmission Line

CD copies of the above reports have been sent to your office via courier. The above reports can also be downloaded from the project website: <http://www.csir.co.za/eia/ScatecSolarPV/>

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Thanks and kind regards,
Rohaida

>>> Rohaida Abed 04/03/2016 17:05 >>>

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Competent Authority: National Department of Environmental Affairs

CSIR REFERENCE: EMS0102/SCATEC/2015

This e-mail correspondence serves to inform you of the release of EIA and BA Reports for the development of three 75 Megawatt (MW) Solar PV power generation facilities, located on the remaining extent of Onder Rugzeer Farm 168, approximately 80 km south of Upington and 30 km north-east of Kenhardt within the !Kheis Local Municipality, Northern Cape Province. The proposed 75 MW Solar PV projects are referred to as: Kenhardt PV 1, Kenhardt PV 2 and Kenhardt PV 3 respectively. The proposed 75 MW Solar PV facilities will connect (via transmission lines and associated electrical infrastructure) to the Eskom Nieuwehoop Substation (which is currently being constructed) on the remaining extent of Portion 3 of Gemsbok Bult Farm 120. These transmission line projects are referred to as: Kenhardt PV 1 – Transmission Line, Kenhardt PV 2 – Transmission Line and Kenhardt PV 3 – Transmission Line.

In terms of the National Environmental Management Act (Act 107 of 1998, as amended) (NEMA) and the 2014 NEMA EIA Regulations promulgated in Government Gazette 38282 and Government Notice (GN) R982, R983, R984 and R985 on 8 December 2014, the proposed projects require a full Scoping and EIA Process for the construction of the three Solar PV facilities. Separate BA processes are also required for the development of the proposed transmission lines and electrical infrastructure. The CSIR has been appointed by Scatec Solar to undertake the requisite BA, and Scoping and EIA Processes for the proposed projects.

Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

Separate Applications for Environmental Authorisation (EA) for the Scoping and EIA Projects were lodged with the Competent Authority (i.e. the National Department of Environmental Affairs (DEA)) on 30 September 2015 (together with the Scoping Reports, which were accepted by the DEA on 8 December 2015). The Applications for EA for the BA projects will be submitted to the DEA together with the BA and EIA Reports for comment. An integrated Public Participation Process is being undertaken for the proposed projects as they are located within the same geographical area and constitute the same type of activity. However, separate reports (i.e. BA, Scoping and EIA Reports) have been compiled for each project.

In line with the above, as a registered Interested and Affected Party (I&AP) on the project database, you are hereby notified of the release of the BA and EIA Reports for the proposed projects for a 30-day review period, which will extend from 3 March 2016 to 5 April 2016.

Please find attached the following:

- Letter 3 to I&APs; and
- Comment and Registration Form.

In addition, the above-mentioned project information can be accessed at the following website:
<http://www.csir.co.za/eia/ScatecSolarPV/>

Kindly ensure that all comments are submitted to the CSIR Project Manager (details provided below) by 5 April 2016.

Thank you and kind regards,

Rohaida Abed

CSIR - Environmental Management Services
P. O. Box 17001, Congella, Durban, 4013
Tel: 031 242 2300
Fax: 031 261 2509
Email: RAbed@csir.co.za



agriculture,
forestry & fisheries

Department:
Agriculture, Forestry and Fisheries
REPUBLIC OF SOUTH AFRICA

Directorate: Forestry Management (Other Regions)
P.O. Box 2782, Upington, 8800, Tel 054 338 5909, Fax 054 334 0030

Enquiries: J Mans
E-mail: JacolineMa@daff.gov.za
Date: 12 April 2016
Ref: 40.8.14.2/NC/18

CSIR – Environmental Management Services
P.O. Box 1016
Congella
DURBAN
4013

ATTENTION: Rohaida Abed (RABed@csir.co.za)

RE: COMMENTS ON EIA REPORT FOR THE PROPOSED DEVELOPMENT OF A 75 MW SOLAR PV FACILITY (KENHARDT PV 3) ON THE REMAINING EXTENT OF ONDER RUGZEER FARM 168, KENHARDT, NORTHERN CAPE (CSIR REPORT NO: CSIR/CAS/EMS/ER/2015/0009/B; DEA REF: 14/12/16/3/3/2/836)

1. DEPARTMENTAL MANDATE

The Directorate: Forestry Management (Other Regions) in the National Department of Agriculture, Forestry and Fisheries (DAFF) is responsible for implementation of the **National Forests Act, Act 84 of 1998 (NFA)** and the **National Veld and Forest Fires Act, Act 101 of 1998** as amended. The developer must take note of the following sections of the NFA:

1.1 Section 12(1): "The Minister may declare-

- (a) a particular tree,
- (b) a particular group of trees,
- (c) a particular woodland; or
- (d) trees belonging to a particular species, to be a protected tree, group of trees, woodland or species.

1.2 Section 15(1): "No person may-

- (a) Cut, disturb, damage or destroy any protected tree; or
- (b) Possess, collect, remove, transport, export, purchase, sell, donate or in any other manner acquire or dispose of any protected tree, or any forest product derived from a protected tree, except-
 - (i) under a license granted by the Minister; or
 - (ii) in terms of an exemption from the provision of this subsection published by the Minister in the Gazette on the advice of the Council."



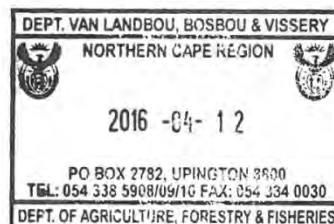
- 1.3 Section 62(2)(c): "Any person who contravenes the prohibition on-
- (i) The cutting, disturbance, damage or destruction of temporarily protected trees or groups of trees referred to in section 14(2) or protected trees referred to in section 15(1)(a); or
 - (ii) The possession, collection, removal, transport, export, purchase or sale of temporarily protected trees or groups of trees referred to in section 14(2) or protected trees referred to in section 15(1)(b), or any forest product derived from a temporarily protected tree, group of trees or protected tree, is guilty of a first category offence.
- 1.4 Section 58 (1): "Any person who is guilty of a first category offence referred to in sections 62 and 63 may be sentenced to a fine or imprisonment for a period of up to three years, or to both a fine and such imprisonment."
- 1.5 The list of protected tree species under section 12(1) (d) of the National Forests Act, 1998 (Act No. 84 of 1998) was published in GN1161 of 20 November 2015.

2. COMMENTS ON EIA REPORT

- 2.1 The report stated on page 8 that the proposed 75 MW Kenhardt PV 3 Facility will cover an area of ± 250 hectares (ha), but a total area of 1341 ha was assessed. The affected vegetation type is Bushmanland Arid Grassland (NKb3). Page 7-15 stated that a uniform habitat prevails across the site. The report stated on page 6-32 in response to a comment made by Ms. Elsabe Swart of the DENC that that "*Aloe dichotoma* was noted in adjacent lands but not associated with the Kenhardt PV 3 area." It also stated on page 6-34, number 5.5 in the response column that no NFA listed protected tree species were found on site during the survey. The DAFF is kindly requesting to do a pre-construction site inspection (preferably with the DENC) to confirm the findings in the EIA report that no NFA protected tree species and/or Quiver trees would be impacted on.
- 2.2 The affected Bushmanland Arid Grassland vegetation type may contain the provincially protected *Boscia foetida* subsp. *foetida*, although it was not listed in Table 7.1 (species encountered on site). *Parkinsonia africana* also not listed in Table 7.1 is mentioned in the Twinspan results presented as a dendrogram indicating vegetation species on site in figure 7.6. Kindly confirm whether or not *P. africana* is present on site or not.

Kind Regards,


Jacoline Mans
Chief Forester: NFA Regulation



EIA REPORT

APPENDIX H:

Application for Environmental Authorisation

Scoping and Environmental Impact Assessment for the Proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

APPLICATION FORM FOR ENVIRONMENTAL AUTHORISATION

	(For official use only)
File Reference Number:	
NEAS Reference Number:	DEA/EIA/
Date Received:	

Application for authorisation in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), (the Act) and the Environmental Impact Assessment Regulations, 2014 the Regulations)

PROJECT TITLE

AMENDED APPLICATION FOR ENVIRONMENTAL AUTHORISATION

Scoping and Environmental Impact Assessment for the Proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

DEA Reference Number: 14/12/16/3/3/2/836

Note from the CSIR: The original Application for Environmental Authorisation for Kenhardt PV 3 was submitted to the DEA in September 2015.

Kindly note that:

1. This application form is current as of 08 December 2014. It is the responsibility of the applicant to ascertain whether subsequent versions of the form have been published or produced by the competent authority.
2. The application must be typed within the spaces provided in the form. The sizes of the spaces provided are not necessarily indicative of the amount of information to be provided. Spaces are provided in tabular format and will extend automatically when each space is filled with typing.
3. Where applicable **black out** the boxes that are not applicable in the form.
4. The use of the phrase "not applicable" in the form must be done with circumspection. Should it be done in respect of material information required by the competent authority for assessing the application, it may result in the rejection of the application as provided for in the Regulations.
5. This application must be handed in at the offices of the relevant competent authority as determined by the Act and Regulations.
6. No faxed or e-mailed applications will be accepted. An electronic copy of the signed application form must be submitted together with two hardcopies (one of which must contain the original signatures).
7. Unless protected by law, all information filled in on this application form will become public information on receipt by the competent authority. Any interested and affected party should and shall be provided with the information contained in this application on request, during any stage of the application process.

8. Should a specialist report or report on a specialised process be submitted at any stage for any part of this application, the terms of reference for such report and declaration of interest of the specialist must also be submitted.
9. Proof of payment must accompany this application. The application will not be processed without proof of payment unless one of the exclusions provided for the Fee Regulations (Fees for consideration and processing of applications for environmental authorisations and amendments thereto Government Notice No.141, published on 28 February 2014) is applicable AND such information in section 1 of this application form has been confirmed by this Department.

Departmental Details

The application must be addressed to the Chief Directorate: Integrated Environmental Authorisations at:

<p>Postal address: Department of Environmental Affairs Attention: Director: Integrated Environmental Authorisations Private Bag X447 Pretoria 0001</p> <p>Physical address: Department of Environmental Affairs Attention: Director: Integrated Environmental Authorisations Environment House 473 Steve Biko Road Arcadia Pretoria</p> <p>Queries must be addressed to the contact below:</p> <p>Tel: 012 399 9372 E-mail: EIAAdmin@environment.gov.za</p> <p><i>Please note that this form <u>must</u> be copied to the relevant provincial environmental department/s.</i></p>

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

1. PROOF OF PAYMENT

Applicants are required to tick the appropriate box below to indicate that either proof of payment is attached or that, in the applicant's view, an exclusion applies. Proof and a motivation for exclusions must be attached to this application form in **Appendix 1**.

Proof of payment attached as **Appendix 1**

Exclusion applies

An applicant is excluded from paying fees if:

The activity is a community based project funded by a government grant; or
The applicant is an organ of state.

TYPE OF EXCLUSION	Tick where applicable. Proper motivation must be attached to the application
The activity is a community based project funded by a government grant	<input type="checkbox"/>
The applicant is an organ of state	<input type="checkbox"/>

FEE AMOUNT	Fee
Application for an environmental authorisation for which basic assessment is required in terms of the Environmental Impact Assessment Regulations	<input type="checkbox"/>
Application for an environmental authorisation, for which S&EIR is required in terms of the Environmental Impact Assessment Regulations	R10 000

Department of Environmental Affairs' details for the payment of application fees:

<p>Payment Enquiries: Tel: 012 399 9119 Email: eiafee@environment.gov.za</p> <p>Banking details: ABSA Bank Branch code: 632005 Account number: 1044 2400 72 Current account Reference number: Reference number to be provided in the specific format indicating centre point coordinates of site in decimal degrees to 5 or 6 decimal places: latitude/longitude eg. -33.918861/18.423300</p> <p>Proof of payment must accompany the application form: Indicate reference number below.</p> <p>Tax exemption status: Status: Tax exempted</p> <p>Reference number: -29.227248/21.305166</p> <p>Note from the CSIR: A single reference number is being used as the Applicant is proposing to construct three 75 MW Solar Photovoltaic (PV) facilities on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province. A separate Application for Environmental Authorisation was lodged for each project (i.e. Kenhardt PV 1, Kenhardt PV 2 and Kenhardt PV 3) in September 2015. Therefore, a single payment of R 30 000 was made with the above reference number, which shows the approximate centre point co-ordinates of all three projects (i.e. Kenhardt PV 1, Kenhardt PV 2 and Kenhardt PV 3). Payment was made and proof thereof was submitted to the DEA together with the original Applications for Environmental Authorisation in September 2015. The same proof of payment (September 2015) has been attached to this Amended Application for Environmental Authorisation.</p>

2. PROJECT DESCRIPTION

Please provide a **detailed** description of the project.

Scatec Solar SA 163 (PTY) Ltd is proposing to develop three 75 Megawatt (MW) Solar Photovoltaic (PV) power generation facilities and associated electrical infrastructure (132 kV transmission lines for each 75 MW facility) on the remaining extent of Onder Rugzeer Farm 168 and the connection points to the Eskom Nieuwehoop Substation on the remaining extent of Portion 3 of Gemsbok Bull Farm 120, approximately 80 km south of Upington and 30 km north-east of Kenhardt within the !Kheis Local Municipality, Northern Cape Province. Scatec Solar SA 163 (PTY) Ltd consists of various subsidiary companies, one of which is Scatec Solar SA 370 (PTY) Ltd. Scatec Solar SA 370 (PTY) Ltd (hereinafter referred to as Scatec Solar) is the Project Applicant for this proposed 75 MW solar PV project (referred to as Kenhardt PV 3).

In terms of the National Environmental Management Act (Act 107 of 1998, as amended) (NEMA) and the 2014 NEMA Environmental Impact Assessment (EIA) Regulations promulgated in Government Gazette 38282 and Government Notice (GN) R982, R983, R984 and R985 on 8 December 2014, a full Scoping and EIA Process is required for the construction of the three Solar PV facilities. A separate Basic Assessment Process is being undertaken for the development of the proposed transmission lines and associated electrical infrastructure required for the connection to the Eskom Nieuwehoop Substation. The Basic Assessment Reports were submitted to the DEA in March 2016 for review, together with the EIA Reports for the Kenhardt PV 1, PV 2 and PV 3 projects. The Applicant has appointed the Council for Scientific and Industrial Research (CSIR) to undertake the separate EIA and Basic Assessment Processes in order to determine the biophysical, social and economic impacts associated with undertaking the proposed activity.

Since the three proposed 75 MW Solar PV facilities are located within the same geographical area and constitute the same type of activity, an integrated Public Participation Process (PPP) has been undertaken for the proposed projects. However, separate Applications for Environmental Authorisation (EA) have been lodged in September 2015 with the Competent Authority (i.e. the National Department of Environmental Affairs) for each proposed Scoping and EIA project. Separate Applications for EA have been lodged in March 2016 for each Basic Assessment project. Furthermore, separate reports (i.e. Basic Assessment, Scoping and EIA Reports) have been compiled for each project. As noted above, the Basic Assessment Reports were released to Interested and Affected Parties (I&APs) for review together with the EIA Reports during the EIA Phase (March 2016).

The proposed 75 MW Solar PV facility projects (requiring a Scoping and EIA Process) are referred to as:

- Kenhardt PV 1,
- Kenhardt PV 2, and
- Kenhardt PV 3 (i.e. **this Application for EA**).

The proposed supporting electrical infrastructure (which includes the 132 kV transmission line) projects (requiring a Basic Assessment Process) are referred to as: Kenhardt PV 1 – Transmission Line; Kenhardt PV 2 – Transmission Line; and Kenhardt PV 3 – Transmission Line.

This Application for EA is therefore only focussed on the proposed **Kenhardt PV 3** project.

A summary of the key components of the proposed project is described below. It is important to note at the outset that the exact specifications of the proposed project components will be determined during the detailed engineering phase.

This project (Kenhardt PV 3) is being developed to have a generation capacity of 75 MW Alternating Current (AC) and up to 100 MW Direct Current (DC). The proposed 75 MW Solar PV facility will cover an approximate area of 250 hectares (ha). A preferred and alternative site (referred to as Kenhardt PV 3b) was considered in the Scoping Phase. It was reported during the Scoping Phase that the preferred

site extended approximately 1000 ha, however this has been increased to 1341 ha, due to progression in the design and the need to ensure that the proposed infrastructure and PV plants are constructed close together. Overall, the portion of land that was removed from the Kenhardt PV 2 area was added to the Kenhardt PV 3 area. Therefore, only the preferred site was assessed during the EIA Phase. The preferred site includes approximately 1341 ha of land. Due to the fact that this project only requires 250 ha of land, there is scope to avoid major environmental constraints through the final design of the facility. The larger 1341 ha area was considered and assessed by the specialists in order to ensure that any development constraints or environmental sensitivities can be avoided in the final siting and location of the proposed facility.

Once a Power Purchase Agreement (PPA) is awarded, the proposed facility will generate electricity for a minimum period of 20 years. The property on which the facility is to be constructed will be leased by Scatec Solar from the property owner for the life span of the project.

The solar facility will consist of the following components:

- Solar Field
 - Solar Arrays;
 - PV Modules;
 - Tracking structures;
 - Solar module mounting structures comprised of galvanised steel and aluminium; and
 - Foundations which will likely be drilled and concreted into the ground.
- Building Infrastructure:
 - Offices;
 - Operational and maintenance control centre;
 - Warehouse/workshop;
 - Ablution facilities;
 - Converter stations;
 - On-site substation building; and
 - Guard Houses.
- Associated Infrastructure
 - 132 kV overhead transmission line (**as mentioned above this is the subject of a separate Basic Assessment Process, referred to as Kenhardt PV 3 – Transmission Line**);
 - Associated electrical infrastructure at the Eskom Nieuwehoop Substation (including but not limited to feeders, Busbars, transformer bay and extension to the platform at the Eskom Nieuwehoop Substation) (**as mentioned above this is the subject of a separate Basic Assessment Process, referred to as Kenhardt PV 3 – Transmission Line**);
 - On-site substation;
 - Internal transmission lines/underground cables;
 - Underground low voltage cables or cable trays;
 - Access roads (including internal gravel roads, perimeter roads, access roads and widening and upgrading of existing access roads);
 - Internal gravel roads;
 - Fencing;
 - Panel maintenance and cleaning area;
 - Stormwater channels; and
 - Temporary work area during the construction phase (i.e. laydown area).

It is important to note that in terms of access, the proposed project site can be accessed via an existing gravel road (an unnamed farm road) and the existing Transnet Service Road (private). Both access routes are considered in the design of the facility and have been included in the proposed project. The R27 extends from Keimoes (in the north) to Vredendal in the south. The R27 is 6 m wide and falls within

a 45 m road reserve. This National Road is designed for minimum daily traffic exceeding 1000 vehicle units. The Transnet Service Road can be accessed from the R27. The existing gravel road (i.e. unnamed farm road) can be accessed from the R383 Regional Road also via the R27 National Road. The Transnet Service Road and unnamed farm road are both wider than 8 m in some sections, however in certain sections; the unnamed farm road is believed to be about 2-3 m wide. A further access road will be constructed from either the Transnet Service Road or the unnamed farm road to the proposed Kenhardt PV 1, 2 and 3 facilities. This internal gravel road is not expected to exceed 6 m in width, and will be 2000 m long. Discussions have been initiated and held with Transnet and the Project Applicant during the Scoping and EIA Process regarding the potential use of the Transnet Road and associated specific requirements.

However, should the Transnet Service Road not be used for access to the site, then the unnamed farm gravel road will be used. In order to make use of the unnamed farm road and to ensure easy access to and mobility of large trucks, the unnamed farm road will need to be upgraded and widened by more than 6 m (where required). It is expected that the upgrading and widening of the unnamed farm road will result in crossings of major and minor drainages lines on site.

Internal roads extending approximately 4 m wide will be constructed within the project footprint of the proposed PV plant. A perimeter road will also be constructed along the boundary of the proposed PV plant, which will extend approximately 2.5 m wide.

The overall locality of the proposed project is shown in Appendix 6 of this Application for EA.

As noted in the EIA Report, all the listed activities potentially forming part of this proposed development and therefore requiring EA were included in the **original** Application for EA that was prepared and submitted to the DEA on 30 September 2015 together with the Scoping Report. The DEA acknowledged receipt of the Scoping Report and Application for EA on 26 October 2015 via email. DEA EIA Reference Number: 14/12/16/3/3/2/836 was assigned to the Kenhardt PV 3 project.

In addition, the finalised Scoping Report for Kenhardt PV 3 was compiled and submitted to the DEA in November 2015. The DEA accepted the finalised Scoping Report and Plan of Study for EIA on 8 December 2015. As part of the acceptance of the finalised Scoping Report and Plan of Study for EIA, the DEA requested some clarification in terms of certain the listed activities included in the original Application for EA and the finalised Scoping Report. Specifically, DEA requested that clarity be provided regarding GN R983 Listed Activity 9 (i) or (ii) and GN R983 Listed Activity 10 (i) or (ii). As explained in Section 6 of this Amended Application for EA, Activity 9 (i) or (ii); and Activity 10 (i) or (ii) of GN R983 as included in the original Application for EA, are no longer applicable to the proposed project. In addition, Activity 24 (ii) of GN R983 (which was included in the original Application for EA) is also no longer applicable to the proposed project (which is discussed further below).

The DEA also requested, as part of the acceptance of the finalised Scoping Report, that the listed activities represented in the EIA Report and Application for EA must be the same and correct. As noted above, certain listed activities are no longer applicable to the proposed project and therefore need to be removed from the original Application for EA. On the other hand, Activity 56 (i) of GN R983 and Activity 18 (a) (ii) (ii) of GN R985, have become applicable to the proposed project (i.e. triggered by the proposed project, as a result of the design progression). This was assessed as part of the EIA undertaken for the project. This is further discussed in Section 6 of this Amended Application for EA. Hence, this Amended Application for EA is being submitted to the DEA.

Does the project form part of any of the Strategic Infrastructure Projects (SIPs) as described in the National Development Plan, 2011?	NO ✓
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If YES, please indicate which SIPs are applicable in **Appendix 2**. You are also required to provide confirmation of SIP applications from the relevant sector representative which must be attached in **Appendix 2**.

Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

Note from the CSIR: The proposed project does not form part of any of the Strategic Infrastructure Projects.

Please indicate which sector the project falls under by crossing out the relevant block in the table below.

Table 1

Green economy + "Green" and energy-saving industries		Greenfield transformation to urban or industrial form (including mining)
Infrastructure – electricity (generation, transmission & distribution)	X	Biodiversity or sensitive area related activities
Oil and gas		Mining value chain
Biofuels		Potential of metal fabrication capital & transport equipment – arising from large public investments
Nuclear		Boat building
Basic services (local government) – electricity and electrification		Manufacturing – automotive products and components, and medium and heavy commercial vehicles
Basic services (local government) – area lighting		Manufacturing – plastics, pharmaceuticals and chemicals
Infrastructure – transport (ports, rail and road)		Manufacturing – clothing textiles, footwear and leather
Basic services (local government access roads)		Forestry, paper, pulp and furniture
Basic services (local government) – public transport		Business process servicing
Infrastructure – water (bulk and reticulation)		Advanced materials
Basic services (local government) – sanitation		Aerospace
Basic services (local government) – waste management		Basic services (local government) – education
Basic services (local government) water		Basic services (local government) – health
Agricultural value chain + agro-processing (linked to food security and food pricing imperatives)		Basic services (local government) - housing
Infrastructure – information and communication technology		Basic services (local government) security of tenure
Tourism + strengthening linkages between cultural industries and tourism		Other
Basic services (local government) – public open spaces and recreational facilities		

Table 2

Does the listed activity/ies applied for form part of a larger project which is not a listed activity itself e.g. a road that is a listed activity that is needed to access a drilling site where the drilling does not constitute a listed activity.	NO
If indicated yes above, please provide a brief description on how the activity/ies relate to the larger project that forms part there of:	
Note from the CSIR: Not Applicable	

3. GENERAL INFORMATION

Applicant name:	Scatec Solar SA 370 (Pty) Ltd		
Registration number (if applicant is a company)	2012/117447/07		
Trading name (if any)	Scatec Solar SA 370		
Responsible person name (If the applicant is a company):	Mitchell Hodgson		
Applicant/Responsible person ID number:	8602075840087		
Responsible position, e.g. Director, CEO, etc.:	Project Development		
Physical address:	Unit 109B, The Foundry, 75 Prestwich Street, Green Point, Cape Town, 8005		
Postal address:	Unit 109B, The Foundry, 75 Prestwich Street, Green Point, Cape Town		
Postal code:	8005	Cell:	072 810 2006
Telephone:	087 702 5868	Fax:	086 560 3828
E-mail:	mitchell.hodgson@scatecsolar.com	BBBEE status:	Not applicable

Provincial Authority:	Department of Environment and Nature Conservation (Kimberly Head Office)		
Contact person:	A. Yahphi		
Postal address:	Private Bag X6102, Kimberly		
Postal code:	8300	Cell:	
Telephone:	053 807 7430	Fax:	053 807 7367
E-mail:	nyaphi@ncpg.gov.za		

Local municipality:	!Kheis Local Municipality		
Contact person:	H. T. Scheepers		
Postal address:	Private Bag X2, Groblersshoop		
Postal code:	8850	Cell:	
Telephone:	054 833 9500	Fax:	054 833 9509
E-mail:	teresascheepers@vodamail.co.za		

In instances where there is more than one local authority involved, please attach a list of those local authorities with their contact details as **Appendix 3**

Note from the CSIR: The !Kheis Local Municipality is the only designated Local Authority relevant to the proposed project. However, the adjacent Kail Garib Local Municipality, as well as the ZF Mgcawu District Municipality (within which the !Kheis Local Municipality and the Kail Garib Local Municipality) have been included on the project database of pre-identified stakeholders and authorities (including I&APs).

Landowner:	VAN NIEKERK GESINSTRUST		
Contact person:	Andre Van Niekerk		
Postal address:	18 du Toit Straat, Stellenbosch		
Postal code:	7600	Cell:	076 070 2515
Telephone:		Fax:	
E-mail:	andre.vanniekerk10@gmail.com / kraaines@mweb.co.za		

In instances where there is more than one landowner, please attach a list of those landowners with their contact details as **Appendix 4**. If the applicant is not the owner or person in control of the land, proof of notice to the landowner or person in control of the land on which the activity is to be undertaken must be submitted in **Appendix 4**.

Note from the CSIR: Van Niekerk Gesintrust is the only owner of the land on which the proposed project will take place (i.e. the remaining extent of Onder Rugzeer Farm 168). Since the Applicant is not the owner or the person in control of the land, proof of notice to the landowner and permission from the landowner is included in Appendix 4 of this Application for EA.

Identified Competent Authority to consider the application:	National Department of Environmental Affairs
Reason(s) in terms of S 24C of NEMA 1998 as amended	The National Department of Environmental Affairs (DEA) based in Pretoria will be the Competent Authority (CA). This is based on a directive that was issued by the Department of Minerals and Energy (now operating as the Department of Energy) in 2009 indicating that all energy-related EIAs must be fast-tracked and that the National DEA must be the CA. Since the proposed project is a renewable energy project, the responsibility of deciding whether to grant EA remains with the DEA.

4. ENVIRONMENTAL ASSESSMENT PRACTITIONER (EAP) INFORMATION

EAP:	Surina Laurie	
Professional affiliation/registration:	<ul style="list-style-type: none"> ▪ Registered Professional Natural Scientist with the South African Council for Natural Scientific Professions (Registration Number: 400033/15) ▪ International Association for Impact Assessment, South African Affiliate 	
Contact person (if different from EAP):	[REDACTED]	
Company:	Council for Scientific and Industrial Research (CSIR)	
Physical address:	11 Jan Celliers Street, Stellenbosch, 7599	
Postal address:	PO Box 320, Stellenbosch	
Postal code:	7599	Cell: 082 468 0962
Telephone:	021 888 2490 or 021 888 2661	Fax: 021 888 2693
E-mail:	SLaurie@csir.co.za	

If an EAP has not been appointed please ensure that an independent EAP is appointed as stipulated by Regulation 12 of GN R.982, dated December 2014, prior to the commencement of the process.

The declaration of independence and the Curriculum Vitae (indicating the experience with environmental impact assessment and the relevant application processes) of the EAP must also be submitted to the Department.

Note from the CSIR: Kindly refer to Appendix 9 of this Application Form for the Declaration of Independence and the Curriculum Vitae of the EAP.

5. SITE DESCRIPTION

Provide a detailed description of the site involved in the application:

Province	Northern Cape
District Municipality	ZF Mgcawu District Municipality
Local Municipality	IKheis Local Municipality
Ward number(s)	Not Applicable
Nearest town(s)	Kenhardt
Farm name(s) and number(s)	Preferred Site (Kenhardt PV 3): ▪ Remainder of farm Onder Rugzeer Number 168
Portion number(s)	Preferred Site (Kenhardt PV 3): ▪ Portion 0

SG 21 Digit Code(s)

(If there are more than 4, please attach a list with the rest of the codes as **Appendix 5**)

C	0	3	6	0	0	0	0	0	0	0	0	0	1	6	8	0	0	0	0
1	2	3	4	5															

Note from the CSIR: Kindly refer to Appendix 6 of this Application Form for a map illustrating the property details relevant to the all three proposed PV projects (i.e. Kenhardt PV 1, Kenhardt PV 2 and Kenhardt PV 3), as well as adjacent properties. Please note that only ERF 168 is relevant to the proposed projects.

Are there any other applications for Environmental Authorisation on the same property?	YES	<input checked="" type="checkbox"/>
If YES, please indicate the following:		
Competent Authority	Please refer to Appendix 10 of this Application Form.	
Reference Number	Please refer to Appendix 10 of this Application Form.	
Project Name	Please refer to Appendix 10 of this Application Form.	
Please provide details of the steps taken to ascertain this information:		
Please refer to Appendix 10 of this Application Form.		

Note from the CSIR: Kindly refer to Appendix 10 of this Application Form for the complete list of other applications for EA on the same property (i.e. remaining extent of Onder Rugzeer Farm 168).

6. ACTIVITIES TO BE AUTHORISED

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

Detailed description of listed activities associated with the project	
Listed activity as described in GN R 983, 984 and 985	Description of project activity that triggers listed activity
<p>GN R 983: Activity 12 (x) and (xii)</p> <p>The development of:</p> <p>(x) buildings exceeding 100 square metres in size;</p> <p>(xii) infrastructure or structures with a physical footprint of 100 square metres or more;</p> <p>where such development occurs-</p> <p>a) within a watercourse;</p> <p>b) in front of a development setback; or</p> <p>c) if no development setback exists, within 32 metres of a watercourse, measured from the edge of a watercourse;</p> <p>excluding-</p> <p>(aa) the development of infrastructure or structures within existing ports or harbours that will not increase the development footprint of the port or harbour;</p> <p>(bb) where such development activities are related to the development of a port or harbour, in which case activity 26 in Listing Notice 2 of 2014 applies;</p> <p>(cc) activities listed in activity 14 in Listing Notice 2 of 2014 or activity 14 in Listing Notice 3 of 2014, in which case that activity applies;</p> <p>(dd) where such development occurs within an urban area; or</p> <p>(ee) where such development occurs within existing roads or road reserves.</p>	<p>The proposed solar PV facility will be constructed on the remaining extent of Onder Rugzeer Farm 168, approximately 80 km south of Upington and 30 km north-east of Kenhardt within the !Kheis Local Municipality, Northern Cape Province. Hence the proposed project will take place outside of an urban area.</p> <p>The proposed 75 MW Solar PV facility will entail the construction of building infrastructure and structures (such as the solar field, offices, workshop/warehouse, ablution facilities, operational and maintenance control centre, on-site substation, laydown area and security enclosures, as well as the widening of the access road etc.). As shown in Chapter 2 of the EIA Report, the offices, workshop/warehouse, operational and maintenance control centre, on-site substation building and inverter stations will exceed an area of 100 m². It is estimated that the total area required for the proposed building structures is 1500 m². The on-site substation will also cover an approximate area of 20 000 m². This constitutes buildings and infrastructure with a physical footprint of more than 100 m².</p> <p>It was noted in the Scoping Report that based on the preliminary sensitivity screening undertaken for the site, the buildings and infrastructure are expected occur within 32 m of the watercourses on site (i.e. the minor drainage lines).</p> <p>This has been confirmed in the Ecological Impact Assessment specialist study (included in Chapter 7 of the EIA Report), which identified major drainage lines on site (such as the Wolfkopseloop River, Rugseers River and the major drainage features that serve these rivers (i.e. tributaries)). The Ecological Impact Assessment has recommended a 32 m buffer around the major drainage lines within the Kenhardt PV 3 area. However, the assessment also identified various minor drainage lines that occur within the Kenhardt PV 3 area which do not need to be avoided.</p> <p>Therefore, infrastructure associated with the proposed project may occur within the minor drainage lines or within 32 m of the edge of the minor (and major) drainage lines.</p>
<p>GN R 983: Activity 19 (i)</p> <p>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 –</p> <p>(i) a watercourse;</p>	<p>The proposed project may entail the excavation, removal and moving of more than 5 m³ of soil, sand, pebbles or rock from the nearby watercourses. The proposed project may also entail the infilling of more than 5 m³ of material into the nearby watercourses. The Ecological Impact Assessment specialist study (included in Chapter 7 of the EIA Report), identified major drainage lines on site (such as the Wolfkopseloop River, Rugseers River and major drainage features that serve these rivers (i.e. tributaries)). The Ecological Impact Assessment has recommended a 32 m</p>

Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

Detailed description of listed activities associated with the project	
Listed activity as described in GN R 983, 984 and 985	Description of project activity that triggers listed activity
<p>but excluding where such infilling, depositing, dredging, excavation, removal or moving-</p> <p>a) will occur behind a development setback; b) is for maintenance purposes undertaken in accordance with a maintenance management plan; or c) falls within the ambit of activity 21 in this Notice, in which case that activity applies.</p>	<p>buffer around the major drainage lines within the Kenhardt PV 3 area. However, the assessment also identified various minor drainage lines that occur within the Kenhardt PV 3 area which do not need to be avoided. Therefore, construction of the internal gravel roads and/or the construction of infrastructure within the minor drainage lines may require the removal of material from or the infilling of material into the minor drainage lines. The Ecological Impact Assessment also notes that despite the minor drainage lines not requiring avoidance, it would be best for the design of the proposed solar PV facility to note the presence of these minor features and avoid establishing structures such as transformers, buildings and other permanent and significant structures within them. If necessary, it would be best to incorporate the minor drainage lines into the solar arrays.</p>
<p>GN R 983: Activity 28 (ii)</p> <p>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:</p> <p>(ii) will occur outside an urban area, where the total land to be developed is bigger than 1 hectare;</p> <p>excluding where such land has already been developed for residential, mixed, retail, commercial, industrial or institutional purposes.</p>	<p>The proposed project will take place on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt in the Northern Cape. It is understood that the land is currently used for agricultural purposes (mainly grazing). The proposed 75 MW solar PV facility (i.e. Kenhardt PV 3), which is considered to be a commercial/industrial development, will have an estimated footprint of approximately 250 ha (i.e. more than 1 ha).</p>
<p>GN R 983: Activity 56 (i)</p> <p>The widening of a road by more than 6 metres, or the lengthening of a road by more than 1 kilometre:</p> <p>(i) where no reserve exists, where the existing road is wider than 8 metres;</p> <p>excluding where widening or lengthening occur inside urban areas.</p>	<p>In terms of access, the proposed project site can be accessed via an existing gravel road (an unnamed farm road) and the existing Transnet Service Road (private). Both access routes will be considered and included in the proposed project. The R27 extends from Keimoes (in the north) to Vredendal in the south. The R27 is 6 m wide and falls within a 45 m road reserve. This National Road is designed for minimum daily traffic exceeding 1000 vehicle units. The Transnet Service Road can be accessed from the R27. The existing gravel road (an unnamed farm road) can be accessed from the R383 Regional Road also via the R27 National Road. The Transnet Service Road and unnamed farm road are both wider than 8 m in some sections, however in certain sections; the unnamed farm road is believed to be about 2-3 m wide.</p> <p>Discussions are being held with Transnet and the Project Applicant regarding the potential use of the Transnet Road and associated specific requirements. However, should the Transnet Service Road not be used for access, then the unnamed farm gravel road will be used. This farm road, however, will need to be upgraded and widened by more than 6 m (where required).</p> <p>The proposed project will take place approximately 80 km south of Upington and 30 km north-east of Kenhardt within the !Kheis Local Municipality, Northern Cape Province. Hence the proposed project will take place outside of an</p>

Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

Detailed description of listed activities associated with the project	
Listed activity as described in GN R 983, 984 and 985	Description of project activity that triggers listed activity
	urban area.
<p>GN R 984: Activity 1</p> <p>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.</p>	The proposed project will entail the construction of a 75 MW Solar PV facility (i.e. facility for the generation of electricity from a renewable resource). The proposed project will be constructed on the remaining extent of Onder Rugzeer Farm 168, approximately 80 km south of Upington and 30 km north-east of Kenhardt within the !Kheis Local Municipality, Northern Cape Province. Hence the proposed project will take place outside of an urban area.
<p>GN R 984: Activity 15</p> <p>The clearance of an area of 20 hectares or more of indigenous vegetation, excluding where such clearance of indigenous vegetation is required for:</p> <p>(i) the undertaking of a linear activity; or (ii) maintenance purposes undertaken in accordance with a maintenance management plan.</p>	The proposed 75 MW solar PV facility (i.e. Kenhardt PV 3) will have an estimated footprint of approximately 250 ha. The Kenhardt PV 1, PV 2 and PV 3 proposed projects will have a collective footprint of approximately 750 ha. As a result, more than 20 ha of indigenous vegetation could possibly be removed for the construction of the proposed Solar PV facility.
<p>GN R 985: Activity 18 (a) (ii) and (ii)</p> <p>The widening of a road by more than 4 metres, or the lengthening of a road by more than 1 kilometre.</p> <p>In Free State, Limpopo, Mpumalanga and Northern Cape provinces:</p> <p>(ii) outside urban areas; and (ii) Areas on the watercourse side of the development setback line or within 100 metres from the edge of a watercourse where no such setback line has been determined.</p>	<p>In terms of access, the proposed project site can be accessed via an existing gravel road (an unnamed farm road) and the existing Transnet Service Road (private). Both access routes will be considered and included in the proposed project. The R27 extends from Keimoes (in the north) to Vredendal in the south. The R27 is 6 m wide and falls within a 45 m road reserve. This National Road is designed for minimum daily traffic exceeding 1000 vehicle units. The Transnet Service Road can be accessed from the R27. The existing gravel road (an unnamed farm road) can be accessed from the R383 Regional Road also via the R27 National Road. The Transnet Service Road and unnamed farm road are both wider than 8 m in some sections, however in certain sections; the unnamed farm road is believed to be about 2-3 m wide.</p> <p>Discussions are being held with Transnet and the Project Applicant regarding the potential use of the Transnet Road and associated specific requirements. However, should the Transnet Service Road not be used for access, then the unnamed farm gravel road will be used. This farm road, however, will need to be upgraded and widened by more than 6 m (where required).</p> <p>The Ecological Impact Assessment undertaken as part of the EIA Process has identified major drainage lines on site (such as the Wolfkopseloop River and major drainage features that serve the Wolfkopseloop (i.e. tributaries)). The Ecological Impact Assessment has recommended a 32 m buffer around the major drainage lines. However, the Ecological Impact Assessment also identified various minor drainage lines (which do not need to be avoided based on the findings of the Ecological Impact Assessment). Therefore, the proposed gravel road widening may occur within 100 m of the edge of the minor and major drainage lines.</p>

Detailed description of listed activities associated with the project	
Listed activity as described in GN R 983, 984 and 985	Description of project activity that triggers listed activity
	The proposed project will take place approximately 80 km south of Upington and 30 km north-east of Kenhardt within the !Kheis Local Municipality, Northern Cape Province. Hence the proposed project will take place outside of an urban area.

Notes from the CSIR regarding the identification of potential listed activities:

- As noted above, Activity 9 (i) and (ii) of GN R983 is no longer applicable to the proposed project. Therefore, this Listed Activity needs to be removed from the original Application for EA, the reasoning for this is provided below. The proposed project will entail the construction of stormwater channels or pipelines only. Water pipelines will no longer be required for the proposed project. It was noted in the Scoping Report and original Application for EA that water pipelines may need to be constructed in order to transfer groundwater from existing boreholes to the proposed solar facility. During the Scoping Phase, the Project Applicant intended to make use of existing boreholes to source groundwater (if available and if suitable) for the solar panel cleaning process. It was further noted in the Scoping Report and original Application for EA that the Geohydrological Assessment (undertaken during the EIA Phase) will confirm whether the groundwater is sufficient and suitable for use. However, the Geohydrological Assessment (Chapter 11 of the EIA Report) recommends that the groundwater is not suitable for use during the construction and operational phase. Therefore, water pipelines will not need to be constructed in order to transfer groundwater from existing boreholes to the proposed solar facility. As a result, water will therefore be sourced from the municipality. Approximately 5 to 10 tanks will be provided on site for the storage of municipal water during the construction and operational phase. The tanks will have a capacity of 10 000 liters each. As a result, Activity 9 (i) and (ii) of GN R983 is no longer applicable in terms of the construction of water pipelines. Furthermore, in terms of stormwater infrastructure, at this stage of the design it is understood that the stormwater infrastructure will cover an approximate length of 1000 m. However, the stormwater infrastructure will not have an internal diameter of more than 0.36 m, and it will not have a peak throughput of more than 120 l/s. Therefore Activity 9 (i) and (ii) of GN R983 is no longer applicable in terms of the construction of stormwater infrastructure. Therefore, Activity 9 (i) and (ii) of GN R983 is not included in this Amended Application for EA.
- As noted above, Activity 10 (i) and (ii) of GN R983 is no longer applicable to the proposed project. Therefore, this Listed Activity needs to be removed from the original Application for EA, the reasoning for this is provided below. At this stage of the design it is understood that the sewage infrastructure will cover an approximate length less than 1000 m, and it will not have an internal diameter of more than 0.36 m, or a peak throughput of more than 120 l/s. Therefore Activity 10 (i) and (ii) of GN R983 is no longer applicable in terms of the construction of stormwater infrastructure. Therefore, Activity 10 (i) and (ii) of GN R983 is not included in this Amended Application for EA.
- As noted above, Activity 24 (ii) of GN R983, which was included in the original Application for EA, is no longer applicable to the proposed project. This is due to the reasoning that the access roads and internal gravel roads that will be constructed on site will not exceed a width of 6 m. The internal gravel road is not expected to exceed 6 m in width (it is expected to be approximately 4 m wide). An approximately 2.5 m wide perimeter road will also be constructed within the fenced area of the plant. At this stage of the design it is estimated that the internal gravel road and the perimeter road will extend 2000 m in length. Therefore, Activity 24 (ii) of GN R983 is not included in this Amended Application for EA.

- As noted above, Activity 56 (i) of GN R983 and Activity 18 (a) (ii) (ii) of GN R985 were not included in the original Application for EA and have been triggered during the EIA Phase as a result of the access road to site and the need for it to be upgraded and widened. As noted in Chapter 2 of the EIA Report, in terms of access, the proposed project site can be accessed via an existing gravel road (an unnamed farm road) and the existing Transnet Service Road (private). Both access routes are considered and included in the proposed project. The Transnet Service Road and unnamed farm road are both wider than 8 m in some sections, however in certain sections; the unnamed farm road is believed to be about 2-3 m wide. Discussions are being held with Transnet and the Project Applicant regarding the potential use of the Transnet Road and associated specific requirements. However, should the Transnet Service Road not be used for access, then the unnamed farm gravel road will be used. This farm road, however, will need to be upgraded and widened by more than 6 m (where required) to allow and facilitate the access of trucks and heavy vehicles. Both these impacts have been assessed in the EIA Phase, as explained in the EIA Report.
- The proposed project only triggers one listed activity within GN R985; however this is based on a distance of 100 m from a major drainage line, and none of the other geographical areas apply. Based on the sensitivity screening undertaken for the site, the proposed project area does not fall within any threatened ecosystems, National Protected Areas, National Protected Area Expansion Strategy Focus Areas or areas of conservation planning. The closest protected area is approximately 113 km away from the proposed project site. An Ecological Support Area (i.e. a buffer around the Hartbees River) is located approximately 14 km west of proposed project as part of the Namakwa District Biodiversity Sector Plan. Furthermore, there is no conservation plan for the !Kheis Local Municipality and the ZF Mgcawu District Municipality, hence Critical Biodiversity Areas are not present or defined. Therefore, most of the listed activities relating to specific geographic areas contained in GN R985 of the 2014 NEMA EIA Regulations do not apply to the proposed project at this stage. This is also confirmed in the Ecological Impact Assessment (Chapter 7 of the EIA Report), which states overall, the proposed project site is not located within any protected areas, or within 5 km of a protected area, or within 10 km of a World Heritage site. Furthermore, the proposed project site does not fall within a Critical Biodiversity Area or within any expansion area in terms of a conservation strategy for the Northern Cape.
- The relevant listed activities applicable to the construction of the proposed transmission lines and associated electrical infrastructure at the Eskom Nieuwehoop Substation have been included in the separate Applications for EA for the Basic Assessment projects (which were submitted to the DEA together with the Basic Assessment Reports in March 2016). DEA provided an acknowledgement of receipt of the Applications for EA for the Basic Assessment projects on 1 April 2016 and assigned the following DEA Reference Numbers to the projects: Kenhardt PV 1 – Transmission Line (14/12/16/3/3/1/1547); Kenhardt PV 2 – Transmission Line (14/12/16/3/3/1/1546); and Kenhardt PV 3 – Transmission Line (14/12/16/3/3/1/1545).

Please note that any authorisation that may result from this application will only cover activities specifically applied for. Co-ordinate points indicating the location of each listed activity must be provided with the relevant report (i.e. either BAR or EIR).

Please provide a project map indicating any sensitive areas (e.g. critical biodiversity area, World Heritage Site, etc.) overlaid by the study area in **Appendix 6**.

Note from the CSIR: Kindly refer to Appendix 6 of this Application Form for project maps, which show the proposed locality and sensitive areas (i.e. watercourses and wetland areas).

A project schedule, indicating the different phases and timelines of the project, must be attached as **Appendix 7**.

Note from the CSIR: Kindly refer to Appendix 7 of this Application Form for a project schedule.

7. PUBLIC PARTICIPATION

Provide details of the public participation process proposed for the application as required by Regulation 41(2) of GN R .982, dated December 2014.

As noted above, due to the fact that the proposed Scoping and EIA projects, consisting of Kenhardt PV 1, Kenhardt PV 2, and Kenhardt PV 3 (i.e. **this Application for EA**); and the proposed Basic Assessment projects (i.e. Kenhardt PV 1 – Transmission Line, Kenhardt PV 2 – Transmission Line, and Kenhardt PV 3 – Transmission Line) are located adjacent to each other, the PPP will run concurrently. Although separate reports for the six projects have been compiled and distributed for comment and authorisation, it is proposed that an integrated PPP be undertaken for all the phases.

The integrated PPP includes the following:

▪ Site Notices:

- Notice boards have been placed during the project initiation phase at the:
 - entrance to the Transnet Service Road (which serves as one of the access routes to the preferred and alternative project sites) (in Afrikaans);
 - entrance of the site from the alternative access road (unnamed farm road) (in English);
 - Kenhardt Petrol Station (in Afrikaans); and
 - Kai !Garib Municipality Offices in Kenhardt (in English).

These site notice boards have been placed for the commencement of the Basic Assessment, Scoping and EIA Processes. Therefore, three notice boards were placed for the proposed projects. A copy of the notice boards and proof of placement thereof are included in the Scoping, Basic Assessment and EIA Reports.

▪ Written Notices:

- During the project initiation phase, written notification letters were sent to pre-identified I&APs (including the owner of the site, occupiers of the site (lessee), neighbouring property owners (i.e. adjacent to the site), ward councillor, and commenting authorities and key stakeholders, including (but not limited to) the local and district municipalities (i.e. Kheis Local Municipality, the Kail Garib Local Municipality, as well as the ZF Mgcawu District Municipality), Department of Water and Sanitation, Department of Environmental and Nature Conservation (Northern Cape), SANParks, Square Kilometre Array (SKA), and Eskom). These letters were sent to notify and inform the potential I&APs of the proposed projects and invite I&APs to register on the project database. These letters regarding the commencement of the Basic Assessment, Scoping and EIA Processes were mailed to all pre-identified key stakeholders on the database (where postal, physical and email addresses were available). This letter, dated 30 July 2015, provided I&APs with a 30-day period to register their interest on the project database. Letter 1 to I&APs included a Background Information Document developed for the project as well as a Comment and Registration Form. A copy of this notice is included in the Scoping, Basic Assessment and EIA Reports.
- During the Scoping Phase, letters will be sent to registered and pre-identified I&APs to notify them of the release of the Scoping Reports and the comment period. These letters were sent via registered mail and/or email (where postal, physical and email addresses are available for I&APs and organs of state on the project database). A copy of this letter is included in the Scoping and EIA Reports.
- During the combined Basic Assessment and EIA Phase, letters were also sent to registered and pre-identified I&APs to notify them of the release of the Basic Assessment

and EIA Reports and the comment period. These letters were sent via registered mail and/or email (where postal, physical and email addresses are available for I&APs and organs of state on the project database). A copy of this letter is included in the Basic Assessment and EIA Reports.

▪ **Newspaper Adverts:**

- During the project initiation phase, a single advertisement was placed in a local newspaper advertising the commencement of the Basic Assessment, Scoping and EIA projects (i.e. Kenhardt PV 1, Kenhardt PV 2, Kenhardt PV 3 (i.e. **this Application for EA**); Kenhardt PV 1 – Transmission Line; Kenhardt PV 2 – Transmission Line; and Kenhardt PV 3 – Transmission Line). The newspaper advertisement was placed in the Gemsbok newspaper on 29 July 2015 in order to notify and inform the public of the proposed projects and invite I&APs to register on the project database. A copy of this advertisement is included in the Scoping, EIA and Basic Assessment Reports.
- During the combined Basic Assessment and EIA Phase, one advertisement was also placed in a local newspaper to notify potential I&APs of the availability of the Basic Assessment and EIA Reports. A copy of this advertisement is included in the EIA and Basic Assessment Reports.
- During the decision-making phase, one advertisement will also be placed in a local newspaper to notify I&APs of the outcome of the decision-making phase (should an EA be granted for the proposed projects) and associated appeal process.
- It is not anticipated that the projects will have an impact beyond the boundary of the Local Municipality; therefore local newspapers will be used during the PPP.

Regulation 41 (2) (e) of the GN R982 states “*using reasonable alternative methods, as agreed to by the competent authority, in those instances where a person is desiring of but unable to participate in the process due to (i) illiteracy; (ii) disability; or any other disadvantage*”. This particular regulation is not applicable at this stage, however it will be complied with as agreed by the Competent Authority should the need arise as part of the PPP.

General

- I&APs on the project database will be notified of the application for the proposed activities via registered mail and email (where postal, physical and email addresses are available).
- All project information throughout the Basic Assessment and EIA Processes have been made available to I&APs through a project website.
- Telephonic consultations will take place with I&APs as required. Notes of telephonic consultations will be kept and included in the relevant reports.
- The I&AP database will be regularly updated throughout the Basic Assessment and EIA Processes to indicate, amongst others, requests to register interest, correspondence sent to I&APs and comments received from I&APs.

8. OTHER AUTHORISATIONS REQUIRED

LEGISLATION	AUTHORISATION REQUIRED		APPLICATION SUBMITTED	
SEMA's				
National Environmental Management: Air Quality Act		NO		NO
National Environmental Management: Biodiversity Act*		NO		NO
Note from the CSIR: Refer to explanation below				
National Environmental Management: Integrated Coastal Management Act		NO		NO
National Environmental Management: Protected Areas Act*		NO		NO
Note from the CSIR: Refer to explanation below				
National Environmental Management: Waste Act		NO		NO
National legislation				
Mineral Petroleum Development Resources Act		NO		NO
National Water Act*	YES			NO
Note from the CSIR: Refer to explanation below				
National Heritage Resources Act*	YES	NO		NO
Note from the CSIR: Refer to explanation below				
Others: Please specify		NO		NO

If authorisation is necessary in terms of the National Environmental Management: Waste Act, please contact the Department for guidance on the **Integrated Permitting System**.

Note from the CSIR:

National Environmental Management: Biodiversity Act (NEMBA) (Act 10 of 2004)

The objective of the NEMBA is to provide for the conservation of biological diversity, regulate the sustainable use of biological resources and to ensure a fair and equitable sharing of the benefits arising from the use of genetic resources. An amendment to the NEMBA has been promulgated, which lists 225 threatened ecosystems based on vegetation types present within these ecosystems. Should a project fall within a vegetation type or ecosystem that is listed, actions in terms of NEMBA are triggered. Based on the Ecological Impact Assessment undertaken for the proposed site, none of the 225 threatened ecosystems based on vegetation types present within these ecosystems occur within the study area.

National Environmental Management: Protected Areas Act (NEMPA) (Act 31 of 2004)

As noted above, based on the Ecological Impact Assessment undertaken for the site, the proposed project area does not fall within any threatened ecosystems, National Protected Areas, National Protected Area Expansion Strategy Focus Areas or areas of conservation planning. The closest protected area is approximately 113 km away from the proposed project site. An Ecological Support Area (i.e. a buffer around the Hartbees River) is located approximately 14 km west of proposed project as part of the Namakwa District Biodiversity Sector Plan.

As the proposed project does not lie within protected areas, nor within 5 kilometres of a protected area, nor within 10 kilometres of a World Heritage site and does not form part of a Critical Biodiversity Area (CBA), the various regulations within the NEMPA are not applicable to this site.

National Water Act (NWA) (Act 36 of 1998)

Section 21 of the NWA identifies certain land uses (e.g. activities resulting in stream-flow reduction such as afforestation and cultivation of crops), infrastructural developments (e.g. altering the bed, banks, course or characteristics of a watercourse), water supply/demand and waste disposal (from land-based activities) as 'water uses' that require authorisation (i.e. licensing) by the Department of Water and Sanitation (DWS).

Any activities that take place within a water course or within 500 m of a wetland boundary require a Water Use Licence (WUL) under the Section 21 of the NWA. The Ecological Impact Assessment (Chapter 7 of the EIA Report) includes additional information regarding the need for a WUL. The Ecological Impact Assessment states that authorisation for changes in land use; up to 500 m from a defined water resource/wetland system will require an application for a WUL from the DWS. The Ecological Impact Assessment explains that a WUL will be required in respect of the proposed development under Section 21 (c) and (i) of the NWA, however such licence should not preclude the proposed development.

However, it is important to note that considerable efforts will be made to place the proposed solar field and project infrastructure outside of wetland areas and any sensitive surface hydrological features identified by the specialist. As noted above, a 32 m buffer has been recommended around the major drainage lines (i.e. the Wolfkopseloop, Rugseers River and the major drainage features that serve these rivers (i.e. tributaries)) within the Kenhardt PV 3 area. As noted previously, the preferred site for the proposed Kenhardt PV 3 project includes approximately 1341 ha of land, however the proposed solar facility and associated infrastructure requires a development area of approximately 250 ha only. The larger area has been proposed to allow for the avoidance of major environmental constraints through the final design of the facility (i.e. the location and layout of the 250 ha facility will, as far as possible, be sited outside of the sensitive areas identified by the specialists). Additional information regarding the siting of the proposed 250 ha facility and the Development Envelope is provided in Chapter 16 of the EIA Report.

The DWS were consulted with during the EIA Process to confirm the need for a WUL, as well as to seek comment on the proposed project. It is important to note that the Regional DWS have provided preliminary comment on the Scoping Report during the 30-day review period. These comments are included and addressed in Chapter 6 (Comments and Responses Trail), and included in Appendix G of the EIA Report.

The National Heritage Resources Act (NHRA) (Act 25 of 1999)

A Heritage Impact Assessment (including Archaeology and Cultural Landscape) and a desktop Palaeontological Impact Assessment was undertaken during the Basic Assessment and EIA Phase of the proposed project. As noted in the Heritage Impact Assessment (including Archaeology and Cultural Landscape), the NHRA does not require the developer to obtain permits prior to construction. However, any archaeological mitigation work (i.e. test excavations, sampling etc.) that may be required (in the event of archaeological resources of significance being found within the development footprint during construction) would need to be conducted under a permit issued to, and in the name of, the appointed archaeologist.

9. LIST OF APPENDICES

		SUBMITTED	
Appendix 1	Proof of Payment	YES	
Appendix 2	Strategic Infrastructure Projects		N/A
Appendix 3	List of Local Municipalities (with contact details)		N/A
Appendix 4	List of land owners (with contact details) and proof of notification of land owners.	YES	
Appendix 5	List of SGIDs	YES	
Appendix 6	Project map	YES	
Appendix 7	Project schedule	YES	
Appendix 8	Declaration of Applicant	YES	
Appendix 9	Declaration of EAP	YES	
Appendix 10	Applications for EA on the same property	YES	

**APPENDIX 1
PROOF OF PAYMENT/ MOTIVATION FOR EXCLUSION**

Note from the CSIR: Payment was made in September 2015 when the original Applications for EA were submitted. The same proof of payment of the application fee has been used for this Amended Application for EA.

Standard Bank of South Africa

Computer Generated Copy

The Standard Bank of South Africa Limited (Incorporated in South Africa) Reg. No. 1992/00072809

CUSTOMER ALL PAYMENTS FINAL AUDIT REPORT

Customer No	20111185	User Name	SGATEC SOLAR SA 163_PTY LTD
User ID	SCA11	Reference	2015247001
Sub Module	SSVS	Action date	20150304
Description	0980FRG201AVC		
Final releasing operators	FSD53 MARNA LANDMAN		N/A
Sub-batch	001	From Account no	0000421037203
		From Account Name	SGATEC 163 - REVENUE
Trans No	37		
Account No	104426072		
Branch No	53005		
Statement Ref	29 237248 / 21.3091E		
Account Name	DEA		
Creditor Code			
Amount	30,000.00		
Status/Description	FINAL AUDIT TO BE DOWNLOADED		
RTGS/RTC			
ISN/Bus Ref	0		
Pay Alert	N		

DATE : 2015-09-04 14:21:00

Page : 27

**APPENDIX 2
STRATEGIC INFRASTRUCTURE PROJECTS**

Note from the CSIR: The proposed project does not form part of any of the Strategic Infrastructure Projects.

<p>SIP 1: Unlocking the northern mineral belt with Waterberg as the catalyst</p> <ul style="list-style-type: none"> • Unlock mineral resources • Rail, water pipelines, energy generation and transmission infrastructure • Thousands of direct jobs across the areas unlocked • Urban development in Waterberg - first major post-apartheid new urban centre will be a "green" development project • Rail capacity to Mpumalanga and Richards Bay • Shift from road to rail in Mpumalanga • Logistics corridor to connect Mpumalanga and Gauteng.
<p>SIP 2: Durban-Free State-Gauteng logistics and industrial corridor</p> <ul style="list-style-type: none"> • Strengthen the logistics and transport corridor between SA's main industrial hubs • Improve access to Durban's export and import facilities • Integrate Free State Industrial Strategy activities into the corridor • New port in Durban • Aerotropolis around OR Tambo International Airport.
<p>SIP 3: South-Eastern node & corridor development</p> <ul style="list-style-type: none"> • New dam at Mzimvubu with irrigation systems • N2-Wild Coast Highway which improves access into KwaZulu-Natal and national supply chains • Strengthen economic development in Port Elizabeth through a manganese rail capacity from Northern Cape • A manganese sinter (Northern Cape) and smelter (Eastern Cape) • Possible Mthombo refinery (Coega) and transshipment hub at Ngqura and port and rail upgrades to improve industrial capacity and performance of the automotive sector.
<p>SIP 4: Unlocking the economic opportunities in North West Province</p> <ul style="list-style-type: none"> • Acceleration of investments in road, rail, bulk water, water treatment and transmission infrastructure • Enabling reliable supply and basic service delivery • Facilitate development of mining, agricultural activities and tourism opportunities • Open up beneficiation opportunities in North West Province.
<p>SIP 5: Saldanha-Northern Cape development corridor</p> <ul style="list-style-type: none"> • Integrated rail and port expansion • Back-of-port industrial capacity (including an IDZ) • Strengthening maritime support capacity for oil and gas along African West Coast • Expansion of iron ore mining production and beneficiation.
<p>SIP 6: Integrated municipal infrastructure project</p> <p>Develop national capacity to assist the 23 least resourced districts (19 million people) to address all the maintenance backlogs and upgrades required in water, electricity and sanitation bulk infrastructure. The road maintenance programme will enhance service delivery capacity thereby impacting positively on the population.</p>
<p>SIP 7: Integrated urban space and public transport programme</p> <p>Coordinate planning and implementation of public transport, human settlement, economic and social infrastructure and location decisions into sustainable urban settlements connected by</p>

<p>densified transport corridors. This will focus on the 12 largest urban centres of the country, including all the metros in South Africa. Significant work is underway on urban transport integration.</p>
<p>SIP 8: Green energy in support of the South African economy Support sustainable green energy initiatives on a national scale through a diverse range of clean energy options as envisaged in the Integrated Resource Plan (IRP2010) and support bio-fuel production facilities.</p> <p><i>Indicate capacity in MW:</i></p>
<p>SIP 9: Electricity generation to support socioeconomic development Accelerate the construction of new electricity generation capacity in accordance with the IRP2010 to meet the needs of the economy and address historical imbalances. Monitor implementation of major projects such as new power stations: Medupi, Kusile and Ingula.</p> <p><i>Indicate capacity in MW:</i></p>
<p>SIP 10: Electricity transmission and distribution for all Expand the transmission and distribution network to address historical imbalances, provide access to electricity for all and support economic development. Align the 10-year transmission plan, the services backlog, the national broadband roll-out and the freight rail line development to leverage off regulatory approvals, supply chain and project development capacity.</p>
<p>SIP 11: Agri-logistics and rural infrastructure Improve investment in agricultural and rural infrastructure that supports expansion of production and employment, small-scale farming and rural development, including facilities for storage (silos, fresh-produce facilities, packing houses); transport links to main networks (rural roads, branch train-line, ports), fencing of farms, irrigation schemes to poor areas, improved R&D on rural issues (including expansion of agricultural colleges), processing facilities (abattoirs, dairy infrastructure), aquaculture incubation schemes and rural tourism infrastructure.</p>
<p>SIP 12: Revitalisation of public hospitals and other health facilities Build and refurbish hospitals, other public health facilities and revamp 122 nursing colleges. Extensive capital expenditure to prepare the public healthcare system to meet the requirements of the National Health Insurance (NHI) system. The SIP contains major builds for 6 hospitals.</p>
<p>SIP 13: National school build programme A national school build programme driven by uniformity in planning, procurement, contract management and provision of basic services. Replace inappropriate school structures and address basic service backlog and provision of basic services under the Accelerated School Infrastructure Delivery Initiative (ASIDI). In addition, address national backlogs in classrooms, libraries, computer labs and admin buildings. Improving the learning environment will strengthen outcomes especially in rural schools, as well as reduce overcrowding.</p>
<p>SIP 14: Higher education infrastructure Infrastructure development for higher education, focusing on lecture rooms, student accommodation, libraries and laboratories, as well as ICT connectivity. Development of university towns with a combination of facilities from residence, retail to recreation and transport. Potential to ensure shared infrastructure such as libraries by universities, FETs and other educational institutions. Two new universities will be built - in Northern Cape and Mpumalanga.</p>
<p>SIP 15: Expanding access to communication technology Provide for broadband coverage to all households by 2020 by establishing core Points of Presence (POPs) in district municipalities; extend new Infracore fibre networks across provinces linking districts; establish POPs and fibre connectivity at local level, and further penetrate the network into deep rural areas.</p>

While the private sector will invest in ICT infrastructure for urban and corporate networks, government will co-invest for township and rural access, as well as for e-government, school and health connectivity.

The school roll-out focus is initially on the 125 Dinaledi (science and maths-focused) schools and 1525 district schools. Part of digital access to all South Africans includes TV migration nationally from analogue to digital broadcasting.

SIP 16: SKA & Meerkat

SKA is a global mega-science project, building an advanced radio-telescope facility linked to research infrastructure and high-speed ICT capacity and provides an opportunity for Africa and South Africa to contribute towards global advanced science projects.

SIP 17: Regional integration for African cooperation and development

Participate in mutually beneficial infrastructure projects to unlock long-term socio-economic benefits by partnering with fast growing African economies with projected growth ranging between 3% and 10%.

The projects involving transport, water and energy also provide competitively-priced, diversified, short and medium to long-term options for the South African economy where, for example, electricity transmission in Mozambique (Cesul) could assist in providing cheap, clean power in the short-term whilst Grand Inga in the DRC is long-term.

All these projects complement the Free Trade Area (FTA) discussions to create a market of 600 million people in South, Central and East Africa.

SIP 18: Water and sanitation infrastructure

A 10-year plan to address the estimated backlog of adequate water to supply 1.4m households and 2.1m households to basic sanitation.

The project will involve provision of sustainable supply of water to meet social needs and support economic growth. Projects will provide for new infrastructure, rehabilitation and upgrading of existing infrastructure, as well as improve management of water infrastructure.

**APPENDIX 3 (IF APPLICABLE)
LIST OF LOCAL MUNICIPALITIES**

Note from the CSIR: The IKheis Local Municipality is the only designated Local Authority relevant to the proposed project. However, the adjacent Kail' Garib Local Municipality, as well as the ZF Mgcawu District Municipality have been included on the project database.

**APPENDIX 4
LIST OF LAND OWNERS
PROOF OF NOTIFICATION OF LAND OWNERS**

Note from the CSIR: Van Niekerk Gesintrust is the only owner of the land on which the proposed project will take place (i.e. the remaining extent of Onder Rugzeer Farm 168). Since the Applicant is not the owner or the person in control of the land; proof of notice to the landowner and permission from the landowner is included in this appendix.

RESOLUTION

I / We, the undersigned *Andre van Niekerk*

duly authorized by *Van Niekerk Gesintrust*

owner of property *Remainder Onder Rugzeer 168*

do hereby authorize the developers of the Proposed Kenhardt PV Cluster Solar Project development, namely :

Veroniva (Pty) Ltd

And / Or

Scatec Solar 163 (Pty) Ltd

Represented by **Claude Bosman** and **Etian Louw**

To:

Lodge all applications necessary in terms of the Environmental Impact Assessment (EIA) Regulations under the National Environment Management Act 1998 (Act No 107 of 1998), and in respect of any other applicable legislation for the Proposed Kenhardt PV Cluster Solar Project in respect of the above identified property;

Signed at *Bellville* this *26th* day of *August* 2015 in the presence of the undersigned witnesses.

OWNER / REPRESENTATIVE:

[Signature]

[Signature]

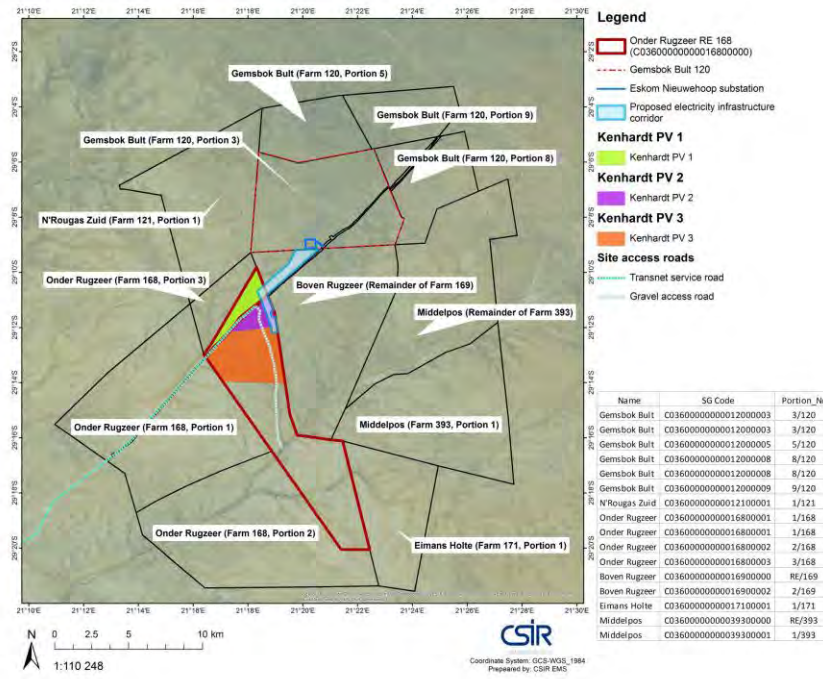
COMMISSIONER OF OATHS
PETRUS BURTON FOURIE
Advocate of the High Court of South Africa
Vineyards Square North
The Vineyards Office Estate
99 Jip de Jager Road
Bellville, Cape Town

APPENDIX 5 (IF APPLICABLE)
LIST OF SGIDS

Note from the CSIR: The proposed project will take place on the remaining extent of Onder Rugzeer Farm 168 and only the following Surveyor-general 21 digit site reference number applies. A map illustrating the property details relevant to the all three proposed PV projects (i.e. Kenhardt PV 1, Kenhardt PV 2 and Kenhardt PV 3 (i.e. this application)); as well as adjacent properties is shown below. Please note that only ERF 168 is relevant to the proposed projects.

C	0	3	6	0	0	0	0	0	0	0	0	0	0	1	6	8	0	0	0	0	0
1	2			3			4					5									

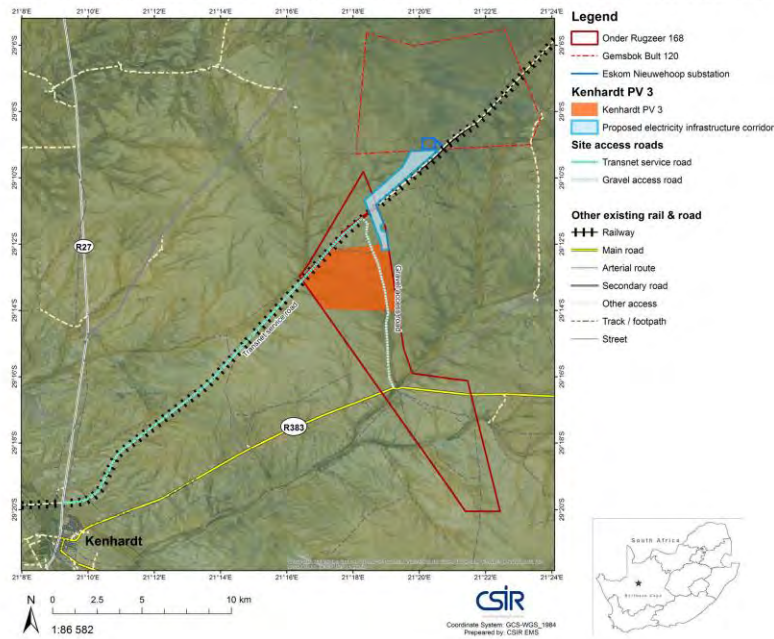
Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province



**APPENDIX 6
PROJECT MAPS**

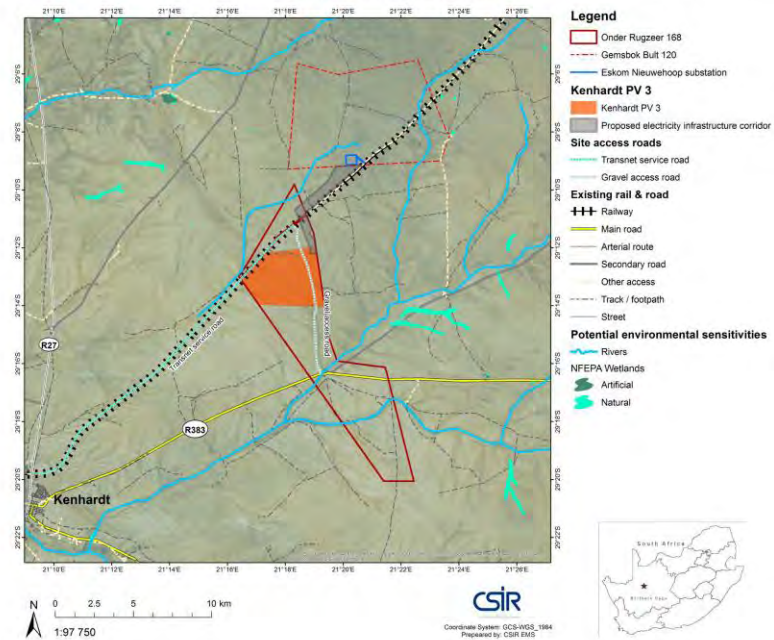
Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

LOCALITY MAP SHOWING THE PREFERRED SITE FOR THE PROPOSED KENHARDT PV 3 PROJECT (NOTE THAT THE ELECTRICAL INFRASTRUCTURE CORRIDOR WAS ASSESSED AS PART OF THE BASIC ASSESSMENT PROCESS)



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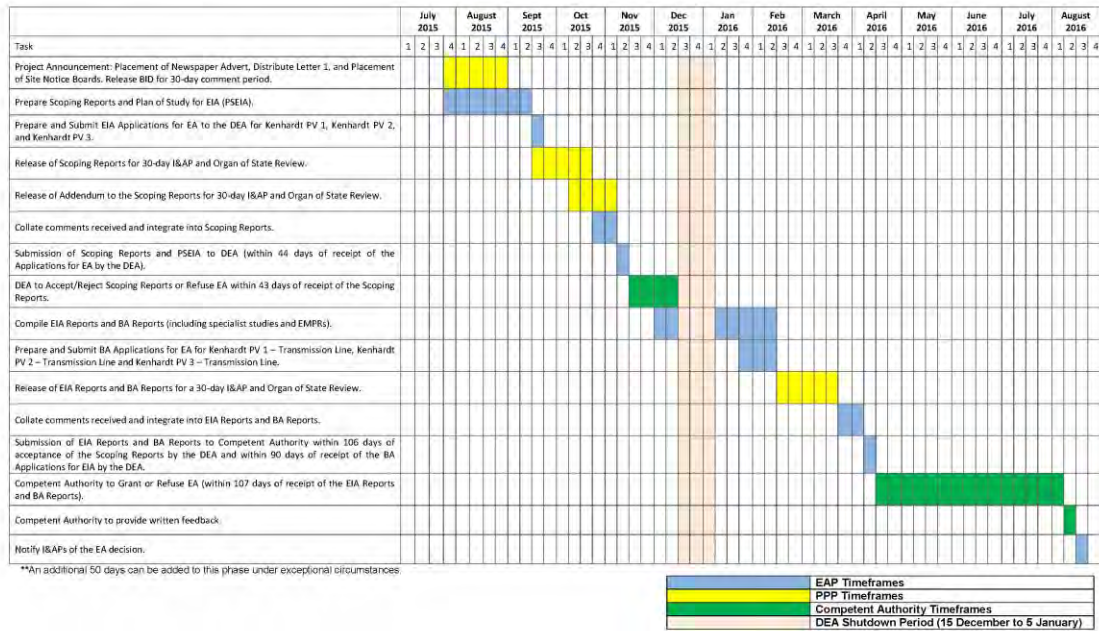
PROJECT MAP INDICATING SENSITIVE AREAS (WETLANDS AND RIVERS) OVERLAID BY THE STUDY AREA FOR THE PROPOSED KENHARDT PV 3 PROJECT (NOTE THAT THE ELECTRICAL INFRASTRUCTURE CORRIDOR WAS ASSESSED AS PART OF THE BASIC ASSESSMENT PROCESS)



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**APPENDIX 7
PROJECT SCHEDULE**

Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province



**An additional 50 days can be added to this phase under exceptional circumstances.


APPENDIX 8
DECLARATION OF THE APPLICANT

I, Mitchell Hodgson, declare that I -

- am, or represent¹, the applicant in this application;
- have appointed / will appoint (delete that which is not applicable) an environmental assessment practitioner to act as the independent environmental assessment practitioner for this application / will obtain exemption from the requirement to obtain an environmental assessment practitioner²;
- will provide the environmental assessment practitioner and the competent authority with access to all information at my disposal that is relevant to the application;
- will be responsible for the costs incurred in complying with the Regulations, including but not limited to –
 - costs incurred in connection with the appointment of the environmental assessment practitioner or any person contracted by the environmental assessment practitioner;
 - costs incurred in respect of the undertaking of any process required in terms of the Regulations;
 - costs in respect of any fee prescribed by the Minister or MEC in respect of the Regulations;
 - costs in respect of specialist reviews, if the competent authority decides to recover costs; and
 - the provision of security to ensure compliance with conditions attached to an environmental authorisation, should it be required by the competent authority;
- will ensure that the environmental assessment practitioner is competent to comply with the requirements of the Regulations and will take reasonable steps to verify that the EAP
 - know the Act and the regulations, and how they apply to the proposed development
 - know any applicable guidelines
 - perform the work objectively, even if the findings do not favour the applicant
 - disclose all information which is important to the application and the proposed development
 - have expertise in conducting environmental impact assessments
 - complies with the Regulations
- will inform all registered interested and affected parties of any suspension of the application as well as of any decisions taken by the competent authority in this regard;
- am responsible for complying with the conditions of any environmental authorisation issued by the competent authority;
- hereby indemnify the Government of the Republic, the competent authority and all its officers, agents and employees, from any liability arising out of the content of any report, any procedure or any action which the applicant or environmental assessment practitioner is responsible for in terms of these Regulations;
- will not hold the competent authority responsible for any costs that may be incurred by the applicant in proceeding with an activity prior to obtaining an environmental authorisation or prior to an appeal being decided in terms of these Regulations;
- will perform all other obligations as expected from an applicant in terms of the Regulations;
- all the particulars furnished by me in this form are true and correct; and
- I realise that a false declaration is an offence in terms of regulation 48 and is punishable in terms of section 24F of the Act.

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

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


Signature³ of the applicant⁴ / Signature on behalf of the applicant:

Scatec Solar SA 370 (Pty) Ltd.
Name of company (if applicable):

13 April 2016
Date:

³ Only original signatures will be accepted. No scanned, copied or faxed signatures will be accepted.
⁴ If the applicant is a juristic person, a signature on behalf of the applicant is required as well as proof of such authority. An EAP may not sign on behalf of an applicant.



Scatec Solar SA 370 (Pty) Ltd
Reg. No 2012/117447/07

21 September 2015

Resolution:

The following has been resolved by the Sole Director:

1. That Scatec Solar SA 370 (Pty) Ltd is the Applicant for authorisation in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), (the Act) and the Environmental Impact Assessment Regulations, 2014 the Regulations);
2. and that Mitchell Hodgson (8602075840087) is duly authorized to represent Scatec Solar SA 370 (Pty) Ltd in such applications.


Marna Landman

Director.

Scatec Solar SA 370 (Pty) Ltd
Unit 1098, The Foundry
75 Freshvick Street
Green Point
Cape Town
8500.

Reg. No. 2012/117447/07

Director:
Mrs. M Landman.

APPENDIX 9
DECLARATION OF THE EAP

I, Sunna Laune declare that –

General declaration:

- I act as the independent environmental practitioner in this application
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting environmental impact assessments, including knowledge of the Act, Regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, Regulations and all other applicable legislation;
- I will take into account, to the extent possible, the matters listed in regulation 8 of the Regulations when preparing the application and any report relating to the application;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- I will ensure that information containing all relevant facts in respect of the application is distributed or made available to interested and affected parties and the public and that participation by interested and affected parties is facilitated in such a manner that all interested and affected parties will be provided with a reasonable opportunity to participate and to provide comments on documents that are produced to support the application;
- I will ensure that the comments of all interested and affected parties are considered and recorded in reports that are submitted to the competent authority in respect of the application, provided that comments that are made by interested and affected parties in respect of a final report that will be submitted to the competent authority may be attached to the report without further amendment to the report;
- I will keep a register of all interested and affected parties that participated in a public participation process; and
- I will provide the competent authority with access to all information at my disposal regarding the application, whether such information is favourable to the applicant or not
- all the particulars furnished by me in this form are true and correct;
- will perform all other obligations as expected from an environmental assessment practitioner in terms of the Regulations; and
- I realise that a false declaration is an offence in terms of regulation 48 of the Regulations and is punishable in terms of section 24F of the Act.

Disclosure of Vested Interest (delete whichever is not applicable)

- I do not have and will not have any vested interest (either business, financial, personal or other) in the proposed activity proceeding other than remuneration for work performed in terms of the Regulations;
- ~~I have a vested interest in the proposed activity proceeding, such vested interest being:~~

Stairie

Signature of the environmental assessment practitioner:

CSIR

Name of company:

13/04/2016

Date:

Curriculum Vitae of Surina Laurie – EAP and Project Leader

Name of firm	CSIR
Name of staff	Surina Laurie
Profession	Environmental Assessment Practitioner
Position in firm	Project Manager
Years' experience	5 years
Nationality	South African

Biographical sketch

Surina has more than 5 years' experience as an Environmental Assessment Practitioner (EAP). She completed both her BSc in Conservation Ecology and MPhil in Environmental Management (part-time) at the University of Stellenbosch. With her honours project, she worked closely with the Endangered Wildlife Trust Riverine Rabbit Working Group and was responsible for determining the conservation opportunity for the Riverine Rabbit in the Karoo. With this project, she gained valuable experience in how to interact and manage stakeholders in such a way that a project's objectives and conservation goals are met without the stakeholders not being included in the decision-making process. The management of stakeholders and the ability to incorporate their needs into the objectives of a project is seen as an essential component of an Environmental Impact Assessment (EIA) process.

With her Masters' thesis she researched and addressed why there is a need to undertake a Cost Benefit Analysis (CBA) as part of any EIA. The need for a CBA stems from the fact that losing environmental services will have an economic impact on a regional/national level in the long term but this is usually not considered during an EIA process. A CBA will look at both the economic benefits (profit) from a project and the economic losses because of loss of ecosystem services or rehabilitation costs. By including a CBA in an EIA, both the economic and environmental financial implications (not just the environmental significance of an impact) of a project will be considered by the decision making authority prior to the issuing of Environmental Authorisations or permits.

She has experience in undertaking Basic Assessments and Scoping and Environmental Impact Assessments for various sectors, including renewable energy, industry and tourism. She also has experience in undertaking environmental audits, due diligence assessments and the compilation of Environmental Management Programmes.

Registered Professional Natural Scientist (Pr. Sci. Nat.) in Environmental Science (Reg. No: 400033/15) with the South African Council of Natural Scientific Professions.

Education	2015 (current)	Certificate in Environmental Economics, University of London (SOAS)
	2013	Project Management Course, University of Cape Town Graduate School of Business
	2011-2012 (Part-time)	MPhil Environmental Management, University of Stellenbosch
	2007-2010	BSc Conservation Ecology, University of Stellenbosch

Employment Record	Feb 2014 to present	CSIR, Project Manager, EAP
	Sept 2011 to Jan 2014	WSP Environmental (Pty) Ltd, Environmental Consultant
	Nov 2010 to Aug 2011	EnviroAfrica, Junior Environmental Consultant

Experience record *Abridged experience in Environmental Impact and Basic Assessment processes:*

Date	Project Description	Role	Client
2014 - present	Integrated Scoping and EIA process for the construction of three Photovoltaic (PV) or Concentrated Photovoltaic (CPV) Solar Facilities with a generating capacity of 75	Project Manager	Mulilo Renewable Project Development (Pty) Ltd

Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

Date	Project Description	Role	Client
	MW each on the farms remaining extent of Portion 3 of the Farm Gemsbok Bull 120 and Boven Rugzeer remaining extent of 169, located 30 km north-east of Kenhardt. Two of the projects will be located on the farm remaining extent of Portion 3 of the Farm Gemsbok Bull 120 and one on Boven Rugzeer remaining extent 169.		
2014 - present	Integrated Scoping and EIA process for the development of twelve (12) Photovoltaic (PV) or Concentrated Photovoltaic (CPV) Solar Facilities with a generating capacity of 75 MW/100MW each, near Dealesville, Free State.	Project Manager	South Africa Mainstream Renewable Power Developments (Pty) Ltd
2013-2014	Basic Assessment for the construction of three additional petroleum storage tanks at the Cape Town Harbour.	Environmental Consultant	FFS Refiners (Pty) Ltd
2013-2014	Scoping and EIA for the construction of a Sewage Package Plant on Robben Island.	Environmental Consultant	Department of Public Works
2013	Development of an EMPr for the undertaking of maintenance work on the Stilbaai Fishing Harbour's Slipway located in Stilbaai, Western Cape, South Africa. In order to be compliant to the requirements of the National Environmental Management Act (Act 107 of 1998) and Environmental Impact Assessment (EIA) Regulations, a Maintenance Management Plan (MMP) needed to be developed to manage the environmental impacts associated with maintenance work that is scheduled to be undertaken on the Stilbaai Fishing Harbour's Slipway as well as any future on-going maintenance requirements.	Environmental Consultant	Department of Public Works
2012-2014	Waste Management License for the proposed storage of Ferrous HMS 1+2, Shredded Ferrous and Bales located at the K/L Berth at Duncan Road, Port of Cape Town	Environmental Consultant	The New Reclamation Group (Pty) Ltd
2012-2014	Scoping and EIA for the construction a biodiesel refinery in the Coega Industrial Development Zone (IDZ). The proposed project entails the import of used vegetable oil from the USA and converting it through various processes to biodiesel which will be exported to Europe. The proposed project requires an Air Emissions License, a Waste Management License and Environmental Authorisation.	Environmental Consultant	FIS Biofuels (Ltd)
2013-2013	Basic Assessment for the proposed redevelopment of Berths B, C and D in Duncan Dock at the Port of Cape Town.	Assistant Environmental Consultant	FPT (Pty) Ltd
2011- 2012	Development of an EMPr for the Eerstelingsfontein Opencast Project (EOP).	Assistant Environmental Consultant	Exxaro Resources Limited
2011-2014	Basic Assessment for the proposed reinstatement of the Blue Stone Quarry located on Robben Island.	Assistant Environmental Consultant	Department of Public Works
2011	Scoping and EIA for the proposed upgrade to the Struisbaai WWTW.	Assistant Environmental Consultant	Cape Agulhas Municipality
2011	Basic Assessment for the construction of a cellular mast.	Environmental Consultant	MTN (Pty) Ltd
2010-2011	Basic Assessment for the construction of a Heritage Centre.	Environmental Consultant	Vaenhuiskrans Amiston Community Development Trust
2010-2011	Scoping and EIA for the rezoning of the area from open space to residential, the construction of six residential units and the upgrading of the existing Waste Water Treatment Plant.	Environmental Consultant	Private developer

Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

Abridged experience in undertaking the role of an Environmental Control Officer and compliance auditing:

Date	Project Description	Role	Client
2013-2014	The proposed extension project involved the installation of five new above ground storage tanks. The two largest tanks have a tank capacity of 2,500m ³ each and a height of 18m. The three smaller tanks have a tank capacity of 2,300m ³ , 1,350m ³ and 212m ³ and heights of 18m, 10.8m and 10.8m respectively, giving an additional 8862m ³ storage capacity to the current FFS operation.	ECO	FFS Refiners (Pty) Ltd
2012-2014	Compliance auditing of drum re-conditioners for the used oil industry in the Western Cape.	Assistant Environmental Consultant	The Rose Foundation
2012	Environmental legal compliance auditing of various Much Asphalt sites. The audit entailed review of national, provincial legislation and municipal by-laws and a site visit in order to determine whether the sites were compliant to the relevant environmental legislation.	Environmental Consultant	Much Asphalt
2011-2013	Construction of a new De-Ashing Plant for FFS Vissershok Construction of a De-Ashing Plant. This project involved the monthly independent audits and reports of all the environmental and social aspects of the construction phase the new De-Ashing Plant at Vissershok.	ECO	FFS Refiners (Pty) Ltd
2011-2012	Construction of the new 1200m ³ Tank at FFS Cape Town Harbour Site. This project involved two site audits per month to ensure compliance to the Environmental Authorisation and Environmental Management Plan for the proposed project.	ECO	FFS Refiners (Pty) Ltd

Language capabilities	<i>Speaking</i>	<i>Reading</i>	<i>Writing</i>
	Afrikaans	Excellent	Excellent
English	Excellent	Excellent	Excellent

**APPENDIX 10:
APPLICATIONS FOR EA ON THE SAME PROPERTY**

1	Competent Authority	National Department of Environmental Affairs
	Reference Number	14/12/16/3/3/2/837
	Project Name	Proposed development of a 75 MW Solar PV Facility (Kenhardt PV 1) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape. Note that the EIA Process has commenced (as described above) and the EA is pending.
2	Competent Authority	National Department of Environmental Affairs
	Reference Number	14/12/16/3/3/2/838
	Project Name	Proposed development of a 75 MW Solar PV Facility (Kenhardt PV 2) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape. Note that the EIA Process has commenced (as described above) and the EA is pending.
3	Competent Authority	National Department of Environmental Affairs
	Reference Number	14/12/16/3/3/1/1547
	Project Name	<u>Kenhardt PV 1 - Transmission Line</u> : Proposed development of a 132 kV Transmission Line to connect to the proposed 75 MW Solar PV Facility (Kenhardt PV 1) on the remaining extent of Onder Rugzeer Farm 168 and the remaining extent of Portion 3 of Gembok Bult Farm 120, north-east of Kenhardt, Northern Cape. Note that the PPP for the Basic Assessment Process has commenced (as described above) and the EA is pending. The Application for EA was lodged separately in March 2016 with the DEA during the EIA Phase of Kenhardt PV 1, Kenhardt PV 2 and Kenhardt PV 3 (i.e. this application).
4	Competent Authority	National Department of Environmental Affairs
	Reference Number	14/12/16/3/3/1/1546
	Project Name	<u>Kenhardt PV 2 - Transmission Line</u> : Proposed development of a 132 kV Transmission Line to connect to the proposed 75 MW Solar PV Facility (Kenhardt PV 2) on the remaining extent of Onder Rugzeer Farm 168 and the remaining extent of Portion 3 of Gembok Bult Farm 120, north-east of Kenhardt, Northern Cape. Note that the PPP for the Basic Assessment Process has commenced (as described above) and the EA is pending. The Application for EA was lodged separately in March 2016 with the DEA during the EIA Phase of Kenhardt PV 1, Kenhardt PV 2 and Kenhardt PV 3 (i.e. this application).
5	Competent Authority	National Department of Environmental Affairs
	Reference Number	14/12/16/3/3/1/1545
	Project Name	<u>Kenhardt PV 3 - Transmission Line</u> : Proposed development of a 132 kV Transmission Line to connect to the proposed 75 MW Solar PV Facility (Kenhardt PV 3) on the remaining extent of Onder Rugzeer Farm 168, and the remaining extent of Portion 3 of Gembok Bult Farm 120, north-east of Kenhardt, Northern Cape. Note that the PPP for the Basic Assessment Process has commenced (as described above) and the EA is pending. The Application for EA was lodged separately in March 2016 with the DEA during the EIA Phase of Kenhardt PV 1, Kenhardt PV 2 and Kenhardt PV 3 (i.e. this application).
Please provide details of the steps taken to ascertain this information: <ul style="list-style-type: none"> ▪ The CSIR has been appointed by Scatec Solar (the Project Applicant), to undertake the EIA and Basic Assessments listed above. 		

EIA REPORT

APPENDIX I:

DEA Correspondence

- Appendix I.1 Pre-Application Meeting with DEA
- Appendix I.2 DEA Acknowledgment of Receipt of Application for Environmental Authorisation and Scoping Report for Comment
- Appendix I.3 DEA Acknowledgement of Receipt of finalised Scoping Report for Decision-Making
- Appendix I.4 DEA Acceptance of finalised Scoping Report and Plan of Study for EIA
- Appendix I.5 DEA Acknowledgment of Receipt of EIA Report for Comment

Scoping and Environmental Impact

Assessment for the Proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

Appendix I.1: Pre-Application Meeting with DEA

Agenda of the Pre-Application Meeting with DEA on 17 September 2015



PRE-APPLICATION MEETING FOR THE PROPOSED MULILO AND SCATECH SOLAR PHOTOVOLTAIC (PV) PROJECTS NEAR KENHARDT IN THE NORTHERN CAPE
DEA offices: Environment House, 473 Steve Biko, Arcadia, Pretoria
17 September 2015
11H00-13H00

Purpose of meeting:

This meeting constitutes the Pre-Application Meeting with DEA to discuss the Environmental Impact Assessments (EIAs) for the proposed Mulilo and Scatech Solar PV projects that are currently being undertaken by CSIR. The meeting is to confirm the proposed EIA processes, i.e. the Applications for Environmental Authorisation, Approaches to the Public Participation Process-, Scoping- and EIA Process, EIA Schedules and the Requirements of the Scoping and EIA processes.

Topic	Responsibility	Time
1. Welcome and Introductions	DEA (Mr Muhammad Essop/ Mr Coenrad Agenbach)	11:00 – 11:10
2. Overview of the Mulilo and Scatech PV solar projects near Kenhardt: <ul style="list-style-type: none"> • Background and location • Proposed EIA Approaches • Proposed Schedules • Current status of the projects 	CSIR (Ms Surina Laurie and Ms Minnelise Levendal)	11:10 – 11:30
3. Questions and Discussion regarding Point 2. <ul style="list-style-type: none"> • Confirmation of EIA Approaches • Confirmation of Schedules 	All	11:30 – 12:00
4. Questions and Discussion regarding the requirements of the Scoping and EIA processes, e.g: - <ul style="list-style-type: none"> • Application • Scoping requirements • EIA requirements • Alternatives • Public Participation Process 	All	12:00 – 12:45
5. Way forward and Closure	DEA (Mr Muhammad Essop/ Mr Coenrad Agenbach)	12:45 – 13:00

Notes of the Pre-Application Meeting with DEA on 17 September 2015



MINUTES

MEETING NOTES FROM PRE-APPLICATION MEETING WITH DEA TO DISCUSS THE PROPOSED MULILO AND SCATEC SOLAR PHOTOVOLTAIC PROJECTS NEAR KENHARDT IN THE NORTHERN CAPE

17 September 2015, 11H00-13H00, DEA Office, Environment House, Pretoria

Attendance:

Name	Organisation
Herman Alberts (HA)	DEA
Mmamohale Kabasa (MK)	DEA
Minnelise Levendal (ML)	CSIR
Surina Laurie (SL)	CSIR

Apologies: Muhammad Essop (ME) (DEA) and Coenrad Agenbach (CA) (DEA) could not attend the meeting as they had to attend an internal strategy workshop.

Purpose of the meeting:

Pre-Application Meeting with DEA was requested to discuss the Environmental Impact Assessments (EIAs) for the proposed Mulilo and Scatec Solar Photovoltaic (PV projects), near Kenhardt in the Northern Cape, that are currently being undertaken by CSIR. The main aims are to discuss the EIA processes, i.e. the Applications for Environmental Authorisation, Approaches to the Public Participation Process, Scoping and EIA Processes, EIA Schedules and the Requirements of the Scoping and EIA processes under the 2014 NEMA EIA Regulations.

1. Welcome and introductions

HA welcomed all participants to the meeting. The participants introduced themselves.

2. Overview of the Scatec and Mulilo Solar Photovoltaic Projects

SL and ML presented an overview of the proposed projects (see Appendix 1 for the full presentation):

- Scatec Solar Photovoltaic (PV) Facilities near Kenhardt in the Northern Cape:
 - Three Solar PV facilities of 75 MW each are proposed and three alternative sites.

- Proposed Scoping and EIA Approach - Three separate Applications, three separate Scoping Reports and three separate EIA Reports will be prepared and submitted to DEA for decision-making. In addition to this, 3 separate Basic Assessment (BA) Reports for the electrical infrastructure will be prepared and submitted to DEA for decision-making.
- One Integrated Public Participation Process (PPP) will be followed.
- **Mulilo Solar PV Facilities near Kenhardt in the Northern Cape**
 - Seven Solar PV facilities of 75 MW each are proposed and seven alternative sites.
 - Proposed Scoping and EIA Approach – Seven separate Applications, One Integrated Scoping Report and seven separate EIA Reports will be prepared and submitted to DEA for decision-making.
 - One Integrated Public Participation Process (PPP) will be followed.
 - The Mulilo projects will be located within the same geographical area and the sites have the same environmental conditions or attributes. It is therefore proposed that one integrated Scoping Report be prepared and submitted to DEA for all seven projects. A similar approach was followed by CSIR for the Kentani Solar PV Project near Dealesville in the Free State which comprised 12 projects. Twelve Applications for Environmental Authorisation (EA) were submitted, one integrated Scoping Report was prepared and submitted and 12 different EIA reports were submitted to DEA for decision-making. This approach was accepted by DEA. A similar approach is therefore proposed for the seven Mulilo Solar PV Facilities near Kenhardt in the Northern Cape.

Background on the proposed Mulilo project:

- Mulilo is also undertaking another solar energy project, i.e. the Mulilo Nieuwehoop Solar Development ("Phase 1") comprising three projects. The Final EIA Reports have been submitted to the DEA in March 2015 for decision-making. These reports are currently being reviewed by the DEA and the outcomes of the applications are pending.
- The project under discussion for this meeting is the Mulilo "Phase 2" Nieuwehoop Solar Development which will occur directly adjacent to the Scatec project and on the same properties as the Mulilo Phase 1 project.

It should be noted that both projects (i.e. the Scatec and Mulilo Phase 2 Solar PV Projects) aim to have an Environmental Decision on the EA Applications by August/September 2016 to qualify for the Integrated Power Producer Procurement bidding window in 2016.

Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

3. Key Questions and Discussion

CSIR question	DEA response	Action
<p>Is the Scatec proposal to produce 3 separate Applications, 3 separate Scoping-, 3 separate EIA and 3 separate BA Reports but undertaking an integrated PPP acceptable?</p> <p>This would mean that there are still ultimately 6 EA decisions that would be issued by DEA.</p>	<p>Proposal for Scatec process/approach (i.e. to undertake separate processes for all the applications) is acceptable</p>	<p>CSIR to proceed with the proposed approach to submit 6 separate Applications, 3 separate BA Reports, 3 separate Scoping- and 3 separate EIA Reports, but to undertake one integrated PPP.</p>
<p>Is the Mulilo proposal to produce 7 separate EA Applications, an integrated Scoping Report, 7 separate EIA reports but undertaking an integrated PPP acceptable?</p> <p>This would mean that there are still ultimately 7 EA Decisions that would be issued by DEA.</p>	<p>HA indicated that it will be easier to review separate Scoping Reports for administrative reasons. HA further indicated that the 7 Applications may be assigned to more than one case officer.</p> <p>Recommendation from CSIR: Can we produce and submit one integrated Scoping Report, but provide DEA with multiple copies of the report for reviewing purposes?</p> <p>HA and MK propose to clarify this issue with ME and CA. They advised CSIR to email this query to DEA.</p>	<p>CSIR to send email to DEA (HA) requesting confirmation on the question.</p> <p>HA to discuss this question with ME and CA and provide feedback to CSIR.</p> <p>Feedback from ME and CA following the Pre-Application Meeting on the recommendation from CSIR to prepare one Integrated Scoping Report, but provide multiple copies of the report to DEA for reviewing purposes: No. Seven separate applications must be submitted. This must be followed by 7 separate Scoping Reports and 7 separate EIA Reports. Specialist studies must be included in the Scoping Report and this must be site specific.</p> <p>Note that the Scoping Report is either accepted or the Application for EA is refused. This has implications for all 7 applications if 1 scoping report is submitted.</p>

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CSIR question	DEA response	Action
<p>Is it acceptable to release Scoping Report for comment (30 days) prior to submitting the Application for EA to DEA? Can the Application for EA and Scoping Report be submitted simultaneously to DEA after commenting period?</p>	<p>This approach is acceptable.</p> <p>-30 day PPP can be done prior to submitting the Application for EA to DEA.</p> <p>-It is advisable to do most of the work upfront to meet the strict timeframes.</p> <p>-DEA will comment on the Draft Scoping Report within the prescribed timeframe. Provided that an application has been submitted to the DEA.</p> <p>-Once the EA Application is submitted, the EAP has 44 days to submit the draft Scoping Report that has been subjected to Public Participation for at least 30 days. Within that timeframe there is a 30-day period for DEA to review and comment on the Draft Scoping Report, leaving 14 days for EAP to submit Final Scoping Report incorporating/addressing comments from DEA.</p> <p>- It is however important to note that EAP should not submit Scoping Report to DEA without an Application Form, otherwise it will not be processed.</p>	
<p>What level of detail is required in the site assessment matrix and the assessment of alternatives that need to be included in the Scoping Report under the new 20104 NEMA EIA Regulations? How do we screen</p>	<p>EAP can list advantages and disadvantages of the alternatives to identify the most feasible or preferred alternative/s in the Scoping Phase. EAP can assess alternatives in Scoping Report and motivate for the most preferred alternative/s to be taken forward into</p>	<p>Feedback from ME and CA following the Pre-Application Meeting:</p> <p>Specialist studies to be included with the Scoping Report.</p>

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Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

CSIR question	DEA response	Action
alternatives in the Scoping Phase as it was normally assessed by the specialists in the EIA Phase under the 2010 EIA Regulations.	<p>the EIA phase. The specialists to undertake assessments of the <u>preferred alternative/s</u> in EIA phase of the project.</p> <p>Ideally the EAP needs to scope out all possible alternatives during the Scoping Phase and only take forward preferred alternatives in the EIA phase. DEA may authorise any of the alternative/s assessed in the EIA, therefore it is imperative that only reasonable and feasible alternatives be taken forward into the EIA Phase.</p>	
If Scoping Report is refused, do you re-start the whole Application Process (i.e. paying the application fee, undertaking the PPP again?)	<p>The Scoping Report is either accepted or the Application for EA is refused.</p> <p>Upon receipt of the Scoping Report DEA will acknowledge receipt and will comment on the Scoping Report (e.g. request any outstanding information).</p> <p>Should the Application for EA be refused, the Applicant will need to wait for the appeals process to conclude and can then re-apply including payment, undertake the PPP again. An amended Scoping Report must be submitted to DEA addressing all initial issues.</p>	
Scatec proposes to make use of borrow pits, thus they require a mining permit. Is the Department of Mineral Resources (DMR) the Competent Authority to approve this activity or can this listed activity be approved by DEA as	HA and MK propose to clarify this issue with ME and CA. They advised CSIR to email this query to DEA.	<p>CSIR to send email to DEA (HA) requesting confirmation on the question.</p> <p>HA to discuss this question with ME and CA and provide feedback to CSIR.</p>

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CSIR question	DEA response	Action
part of the EIA process?		<p>Feedback from DEA following the Pre-Application Meeting:</p> <p>Please note that the DMR is the CA to approve the activity relating to the borrow pits.</p>
<p>Can one Application for EA be split into separate Environmental Authorisations? The CSIR is of the opinion that Regulation 25 (2) of the NEMA EIA Regulations makes provision for the Competent Authority to issue a single or multiple Environmental Authorisations in terms of an Application.</p> <p>The CSIR would like to understand under what scenarios can this provision in the Regulations be implemented.</p>	<p>DEA to confirm whether this interpretation is correct, and if not provide the correct interpretation to clarify how this regulation can be applied.</p> <p>HA and MK propose to clarify this issue with ME and CA. They advised CSIR to email this query to DEA.</p>	<p>CSIR to send email to DEA (HA) requesting confirmation on the question.</p> <p>HA to discuss this question with ME and CA and provide feedback to CSIR.</p> <p>Feedback from ME and CA following the Pre-Application Meeting:</p> <p>This applies to projects previously approved.</p>
Regulation 21 (1) states that if a S&EIR must be applied to an application, the applicant must, within 44 days of receipt of the application by the CA, submit to the CA a Scoping Report which has been subjected to a PPP of at least 30 days and which reflects the incorporation of comments received, including any comments from the CA. What is the best way to reflect the comments received in the Scoping Report that will be submitted to the DEA? If there are no substantial comments requiring amendments to the report, then can a separate appendix be	This approach is acceptable. It must be noted that all questions and issues raised during the PPP must be addressed and included in the Report prior to submission of the Report to DEA.	

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Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

CSIR question	DEA response	Action
<p>compiled, noting all the comments received during the 30-day review of the Consultation Scoping Report and appropriate responses from the EAP. The appendix will also note the PPP undertaken for the release of the Consultation Scoping Report. This separate appendix will then be submitted to the DEA with the Scoping Report for decision-making. It is planned to only provide copies of this appendix and Scoping Report to the DEA (and not to I&APs via courier or library).</p>		

- **Recommendations from DEA on the EIA process following queries from CSIR:**

- CSIR to submit separate EA Applications for each project.
- Make sure that you have all the information before starting with the EIA process.
- If timeframes under the 2014 NEMA EIA Regulations are not met, the Application will lapse and a new Application for EA would need to be submitted.
- Letters should be distributed to Interested and Affected Parties (I&APs) via registered mail.
- The commenting period starts on the date that the Application or Report is received by DEA. CSIR does not have to wait for a letter of acknowledgement of receipt. DEA will try to email the letter of acknowledgement to the EAP and Applicant on the same day of receipt or the following day, but delays may occur.
- 2010 NEMA EIA Regulations allowed possibility of downgrading of EIA to BA with motivation. There is no provision for this under the 2014 NEMA EIA Regulations.
- Environmental Authorisation issued under the 2010 NEMA Regulations will follow Appeal Process prescribed under the 2010 NEMA Regulations.
- Background Information of project desirability should be project specific and avoid generalising to South Africa.
- DEA advises that the necessary specialist studies be undertaken (e.g. Radio Frequency Interference (RFI) as the projects are located in close proximity to the Square Kilometre Array (SKA) Project.
- DEA encourages that most of the work should be done upfront to adhere to timeframes.
- Pre-Application Meetings are useful and assist undertaking efficient Application process.
- CSIR to send Scoping and EIA Reports to DEA Biodiversity Directorate for comment.
- DEA will provide comments on the Scoping Report. CSIR to take these comments into consideration when preparing the final Scoping Report or EIA Report. CSIR can motivate if comments are not relevant to specific project.
- Applicant to make sure that only reasonable and feasible project developments are presented in the EIA Report. DEA may approve any one of these options, and not necessarily the preferred alternative proposed by the EAP or Applicant.

4. Way forward and Closure

- ML to draft an email to HA and MK (and copy ME and CA) to seek clarity on issues that could not be finalised at the meeting. HA and MK will then discuss these issues further with ME and CA and provide feedback to CSIR.
- ML and SL to draft the meeting notes and send to DEA for approval and sign-off.
- HA re-iterated that CSIR should not hesitate to contact or request meetings with the DEA case officer/s if they have queries regarding the EIA processes.
- The meeting notes must be included in the Scoping and EIA Reports.

ML and SL thanked DEA for the opportunity to meet with them and for providing feedback on the queries relating to the Scoping and EIA approaches and processes currently being undertaken by CSIR under the 2014 NEMA EIA Regulations for the proposed Mulilo and Scatec Solar PV Facilities near Kenhardt in the Northern Cape.

THE MEETING ADJOURNED AT 12H30.

CSIR Presentation given at the Pre-Application Meeting with DEA on 17 September 2015

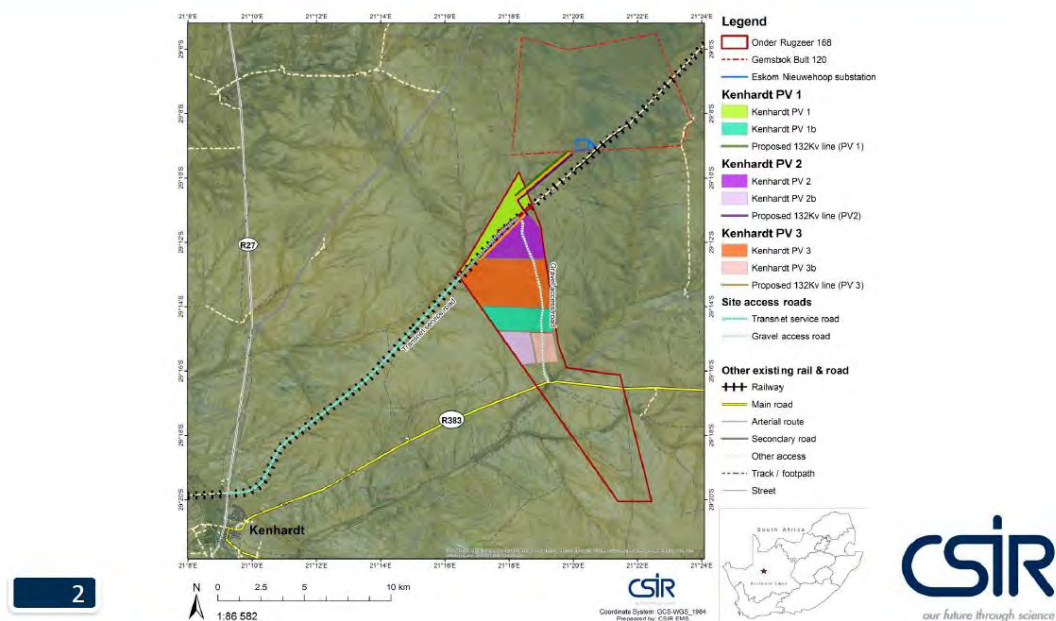
CELEBRATING
70 Years
Ideas that work

CSIR
our future through science

PRE-APPLICATION MEETING WITH DEA ON MULILO AND SCATEC SOLAR EIAs FOR SOLAR PV PROJECTS NEAR KENHARDT IN NORHTERN CAPE PROVINCE

17 September 2015

SCATEC SOLAR PV PROJECT & ALTERNATIVE SITES



2

Key Questions

- **Confirmation of Scatec Solar and Mulilo EIA Processes/Approaches**
- **Can PPP for Scoping Report (30 days) be undertaken before submission of Applications for EA?**
- **Should alternatives be screened out during Scoping Phase? What about specialist studies and assessments that are only done in EIA Phase?**
- **Regulation 25 of the Regulations – multiple authorisations**

5



**FURTHER
QUESTIONS AND
DISCUSSION**

THANK YOU!

Minnelise Levendal (mlevendal@csir.co.za)

Surina Laurie (slaurie@csir.co.za)



Appendix I.2: DEA Acknowledgement of Receipt of Application for EA and Scoping Report for Comment



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: 14/12/16/3/3/2/836

Enquiries: Ms Julliet Mahlangu

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

Surina Laurie
Council for Scientific and Industrial Research
P O BOX 320
STELLENBOSCH
7599

Tel: (021) 888 2490
Email: SLaurie@csir.co.za

PER EMAIL / MAIL

Dear Surina Laurie

ACKNOWLEDGEMENT OF RECEIPT OF A NEW APPLICATION FOR ENVIRONMENTAL AUTHORISATION (SCOPING PROCESS) AND A DRAFT SCOPING REPORT FOR THE PROPOSED DEVELOPMENT OF A 75 MW SOLAR PHOTOVOLTAIC FACILITY (KENHARDT PV 3) ON THE REMAINING EXTENT OF ONDER RUGZEER FARM 168, NORTH-EAST OF KENHARDT, NORTHERN CAPE PROVINCE

The Department confirms having received the application for environmental authorisation and the Draft Scoping report for the abovementioned project on 02 October 2015. You have submitted these documents to comply with the Environmental Impact Assessment Regulations, 2014.

Further 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 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 sincerely

Mr Sabelo Malaza

Chief Director: Integrated Environmental Authorisations

Department of Environmental Affairs:

Letter signed by: Ms Senisha Soobramany

Designation: Control Environmental Officer (Grade A): Integrated Environmental Authorisations

Date: 23 October 2015

CC:	Mitchell Hodgson	Scatec Solar SA 370 (PTY)	Email: Mitchell.hodgson@scatecsolar.com
	A Yahphi	Department of Nature Conservation	Email:nyaphi@ncpg.gov.za

Appendix I.3: DEA Acknowledgement of Receipt of finalised Scoping Report for Decision-Making



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

Private Bag X 447 · PRETORIA · 0001 · Environmental House · 473 Steve Biko Road · PRETORIA
Tel (+ 27 12) 399 9972

DEA References: 14/12/16/3/3/2/836

: 14/12/16/3/3/2/837

: 14/12/16/3/3/2/838

Enquiries: Muhammad Essop

Tel: 012 399 9406 E-mail: MEssop@environment.gov.za

Surina Laurie
Council for Scientific and Industrial Research
P O BOX 320
STELLENBOSCH
7599

Tel: (021) 888 2490
Email: SLaurie@csir.co.za

PER EMAIL / MAIL

Dear Surina Laurie

ACKNOWLEDGEMENT OF RECEIPT OF THE FINAL SCOPING REPORTS FOR THE PROPOSED DEVELOPMENT OF THREE SOLAR PHOTOVOLTAIC (PV) FACILITIES (KENHARDT PV1, KENHARDT PV2 AND KENHARDT PV3) ON THE REMAINING EXTENT OF ONDER RUGZEER FARM 168, NORTH-EAST OF KENHARDT, NORTHERN CAPE PROVINCE

The Department confirms having received the Final Scoping Reports dated 11 November 2015 for the above-mentioned project on 12 November 2015.

You are hereby reminded that the activity may not commence prior to an environmental authorisation being granted by the Department.

Yours sincerely

Mr Sabelo Malaza

Chief Director: Integrated Environmental Authorisations
Department of Environmental Affairs

Letter signed by: Ms Senisha Soobramany

Designation: Control Environmental Officer (Grade A): Coordination and Strategic Planning and Support

Date: 23 November 2015

Appendix I.4: DEA Acceptance of finalised Scoping Report



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

Private Bag X 447 · PRETORIA · 0001 · Environment House · 473 Steve Biko Road · Arcadia · PRETORIA
Tel (+ 27 12) 399 9372

DEA Reference: 14/12/16/3/3/2/836

Enquiries: Mr Herman Alberts

Telephone: (012) 399 9371 E-mail: HALberts@environment.gov.za

Ms Surina Laurie
Council for Scientific and Industrial Research
PO Box 320
STELLENBOSCH
7599

Telephone Number: (021) 888 2490
Email: SLaurie@csir.co.za

PER EMAIL / MAIL

Dear Ms Laurie

ACCEPTANCE OF THE SCOPING REPORT FOR THE PROPOSED DEVELOPMENT OF THE 75 MW SOLAR PHOTOVOLTAIC FACILITY (KENHARDT PV 3) ON THE REMAINING EXTENT OF ONDER RUGZEER FARM 168, NORTH-EAST OF KENHARDT, NORTHERN CAPE PROVINCE

The Scoping Report (SR) and Plan of Study for Environmental Impact Assessment (PoSEIA) dated November 2015 and received by this Department on 12 November 2015 refer.

This Department has evaluated the submitted SR and the PoSEIA dated November 2015 and is satisfied that the documents comply with the minimum requirements of the Environmental Impact Assessment (EIA) Regulations, 2014. The SR is hereby accepted by the Department in terms of Regulation 22 (a) of the EIA Regulations, 2014.

You may proceed with the Environmental Impact Assessment process in accordance with the tasks contemplated in the PoSEIA and the requirements of the EIA Regulations, 2014.

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 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 comments from all relevant stakeholders are submitted to the Department with the final EIAR. This includes but is not limited to the Northern Cape Department of Environment and Nature Conservation, the Department of Agriculture, Forestry and Fisheries (DAFF) and the provincial Department of Agriculture, the South African Civil Aviation Authority (SACAA), the Department of Transport, the Kagisano-Molopo Local Municipality, the Dr Ruth Segomotsi Mompoti District Municipality, the Department of Water and Sanitation (DWS), the Department of Communications, Eskom Holdings SOC Limited, the South African National Roads Agency Limited (SANRAL), the South African Heritage Resources Agency (SAHRA), EWT, BirdLife SA, the Department of Mineral Resources, the Department of Rural Development and Land Reform, the Department of Environmental Affairs: Directorate Biodiversity and Conservation and the Square Kilometre Array (SKA).

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

Please ensure that the EIAr and EMPr comply with Appendix 3 and Appendix 4 of the EIA Regulation 2014, 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. This Department requests the EAP to familiarise themselves with the requirements with Appendix 3 of GNR 982 of the EIA Regulations, 2014 and ensure that the final EIAr submitted to this Department for consideration meets the requirements in terms of the assessment and providing mitigation measures of the impacts on the preferred sites.
- ii. Clarity must be provided regarding GN R.983 Item 9 (i) or (ii) and GN R.983 Item 10 (i) or (ii). An amended application must be submitted.
- iii. The EIAr must include the following:
 - GN R.983 Item 19: With regards to infilling and excavation of watercourses for the construction of the PV Solar Energy facility, this Department requires the applicant to provide an indication of the preferred and alternate locations from which the material used for infilling will be sourced and where excavated material will be stored and/or disposed of. In addition, the impacts associated with this activity must be adequately assessed in the EIAr.
- iv. The EIAr must provide an assessment of the impacts and mitigation measures for each of the listed activities applied for.
- v. It is imperative that the relevant authorities are continuously involved throughout the EIAr process.
- vi. The listed activities represented in the EIAr and the application form must be the same and correct.
- vii. It is noted that no activity under GN R 985 is being applied for. However, should they at a later stage be found to be applicable, an amended application form as well as written comments must be obtained and submitted to this Department confirming their applicability to the proposed development. In addition, a graphical representation of the proposed development within the respective geographical areas must be provided.
- viii. The Social Impact Assessment to be compiled by the CSIR as indicated in the final SR must be peer reviewed by an external specialist.
- ix. 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 solar energy facilities below.
- x. 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 all linear activities.
- xi. The EIAr must provide the final detailed EMPr and final detailed layout plan with the information as requested in this letter.
- xii. The EIAr must provide the following:
 - Clear indication of the envisioned area for the proposed solar energy facility; i.e. placing of photovoltaic 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.
- xiii. The EIA must also include a comments and response report in accordance with Appendix 3 of the EIA Regulations, 2014.
- xiv. The EIA must include the detail inclusive of the PPP in accordance with Regulation 41 of the EIA Regulations.
- xv. Details of the future plans for the site and infrastructure after decommissioning in 20-30 years and the possibility of upgrading the proposed infrastructure to more advanced technologies.
- xvi. Information on services required on the site, e.g. sewage, refuse removal, water and electricity. Who will supply these services and has an agreement and confirmation of capacity been obtained? Proof of these agreements must be provided.
- xvii. The EIA must provide a detailed description of the need and desirability, not only providing motivation on the need for clean energy in South Africa of the proposed activity. The need and desirability must also indicate if the proposed development is needed in the region and if the current proposed location is desirable for the proposed activity compared to other sites.
- xviii. 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:
 - PV 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.
- xix. An environmental sensitivity map indicating environmental sensitive areas and features identified during the EIA process.
- xx. A map combining the final layout map superimposed (overlain) on the environmental sensitivity map.
- xxi. 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. Measures as dictated by the final site layout map and micro-siting.
- iv. An environmental sensitivity map indicating environmental sensitive areas and features identified during the EIA process.
- v. A map combining the final layout map superimposed (overlain) on the environmental sensitivity map.
- vi. An alien invasive management plan to be implemented during construction and operation of the facility. The plan must include mitigation measures to reduce the invasion of alien species and ensure that the continuous monitoring and removal of alien species is undertaken.
- vii. A plant rescue and protection plan which allows for the maximum transplant of conservation important species from areas to be transformed. This plan must be compiled by a vegetation specialist familiar with the site and be implemented prior to commencement of the construction phase.
- viii. A re-vegetation and habitat rehabilitation plan to be implemented during the construction and operation of the facility. Restoration must be undertaken as soon as possible after completion of construction activities to reduce the amount of habitat converted at any one time and to speed up the recovery to natural habitats.
- ix. An open space management plan to be implemented during the construction and operation of the facility.
- x. A traffic management plan for the site access roads to ensure that no hazards would result from the increased truck traffic and that traffic flow would not be adversely impacted. This plan must include measures to minimize impacts on local commuters e.g. limiting construction vehicles travelling on public roadways during the morning and late afternoon commute time and avoid using roads through densely populated built-up areas so as not to disturb existing retail and commercial operations.
- xi. A transportation plan for the transport of components, main assembly cranes and other large pieces of equipment.
- xii. A storm water management plan to be implemented during the construction and operation of the facility. The plan must ensure compliance with applicable regulations and prevent off-site migration of contaminated storm water or increased soil erosion. The plan must include the construction of appropriate design measures that allow surface and subsurface movement of water along drainage lines so as not to impede natural surface and subsurface flows. Drainage measures must promote the dissipation of storm water run-off.
- xiii. A fire management plan to be implemented during the construction and operation of the facility.
- xiv. 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.
- xv. 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.

- xvi. 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.

The EIAr must include a **cumulative impact assessment** of the facility since there are other similar facilities in the region. The specialist studies e.g. biodiversity, visual, noise, avifauna etc. must also assess the facility in terms of potential cumulative impacts. The specialist studies as outlined in the PoSEIA which is incorporated as part of the SR must also assess the facility in terms of potential cumulative impacts.

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

You are hereby reminded that should the EIAr fail to comply with the requirements of this acceptance letter, a negative environmental authorisation will be issued.

The applicant is hereby reminded to comply with the requirements of Regulation 45 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. The reports referred to are listed in Regulation 43(1).

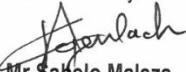
Furthermore, it must be reiterated that, should an application for Environmental Authorisation be subject to the provisions of Chapter II, Section 38 of the National Heritage Resources Act, Act 25 of 1999, then this Department will not be able to make nor issue a decision in terms of your application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

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

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

Letter Signed by: Mr Coenrad Agenbach

Designation: Deputy Director: Strategic Infrastructure Developments

Date 08/12/2015

cc:	Mitchell Hodgson	Scatec Solar SA 330 (Pty) Ltd	E-mail: Mitchell.hodgson@scatecsolar.com
	A Yahphi	NC: DENC	E-mail: nyaphi@ncpg.gov.za

A. EIA INFORMATION REQUIRED FOR SOLAR ENERGY FACILITIES

1. General site information

The following general site information is required:

- Descriptions of all affected farm portions
- 21 digit Surveyor General codes of all affected farm portions
- Copies of deeds of all affected farm portions
- Photos of areas that give a visual perspective of all parts of the site
- Photographs from sensitive visual receptors (tourism routes, tourism facilities, etc.)
- Solar plant design specifications including:
 - Type of technology
 - Structure height
 - Surface area to be covered (including associated infrastructure such as roads)
 - Structure orientation
 - Laydown area dimensions (construction period and thereafter)
 - Generation capacity
- Generation capacity of the facility as a whole at delivery points

This information must be indicated on the first page of the EIAr. 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 Array	
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 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)
 - steeper than 18 % slope (unsuitable for PV 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 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

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.

Appendix I.5: DEA Acknowledgement of Receipt of EIA Report for Comment



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

Private Bag X 447 · PRETORIA · 0001 · Environmental House · 473 Steve Biko Road · PRETORIA
Tel (+ 27 12) 399 9972

DEA Reference: 14/12/16/3/3/2/837; 838 & 836

Enquiries: Mr Herman Alberts

Tel: 012 399 9371 E-mail: HALberts@environment.gov.za

Ms Surina Laurie
Council for Scientific and Industrial Research
PO Box 320
STELLENBOSCH
7599

Telephone Number: (021) 888 2490
Email: SLaurie@csir.co.za

PER EMAIL / MAIL

Dear Sir/Madam

ACKNOWLEDGEMENT OF RECEIPT OF DRAFT EIA REPORT FOR THE PROPOSED DEVELOPMENT OF THREE SOLAR PHOTOVOLTAIC (PV) FACILITIES (REFERRED TO AS KENHARDT PV 1, KENHARDT PV 2 AND KENHARDT PV 3) AND THREE TRANSMISSION LINES AND ASSOCIATED ELECTRICAL INFRASTRUCTURE FACILITIES (REFERRED TO AS KENHARDT PV 1 – TRANSMISSION LINE, KENHARDT PV 2-TRANSMISSION LINE AND KENHARDT PV 3-TRANSMISSION LINE) TO SUPPORT THE PROPOSED PV FACILITIES, NORTH-EAST OF KENHARDT, NORTHERN CAPE PROVINCE

The Department confirms having received the Draft EIA Report for the above-mentioned projects on 22 March 2016.

You are hereby reminded that the activity may not commence prior to an environmental authorisation being granted by the Department.

Yours sincerely

Mr Sabelo Malaza

Chief Director: Integrated Environmental Authorisations
Department of Environmental Affairs

Letter signed by: Ms Senisha Soobramany

Designation: Environmental Officer (Grade A): Integrated Environmental Authorisations

Date: 5 April 2016

EIA REPORT

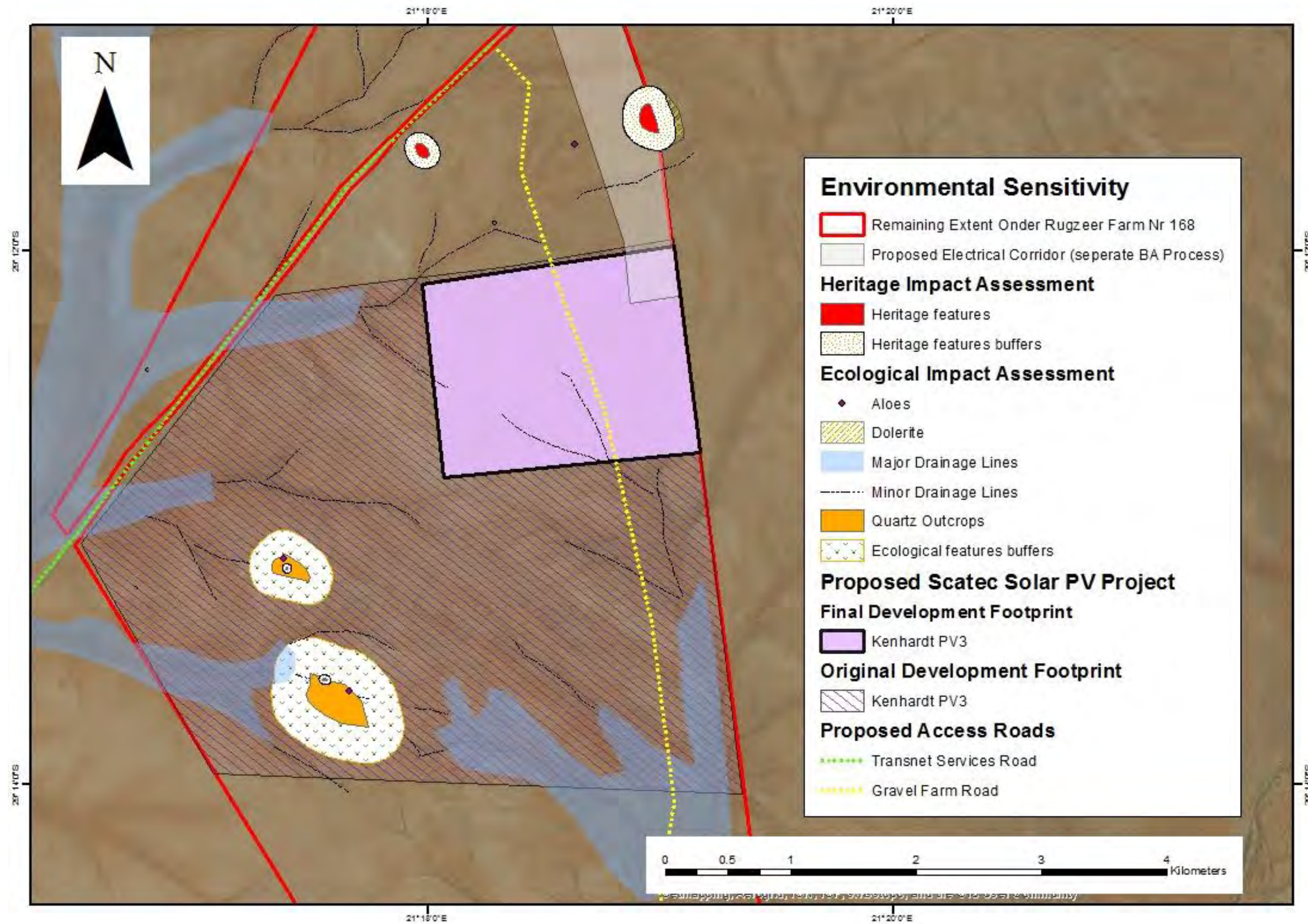
APPENDIX J:

Maps and Title Deeds

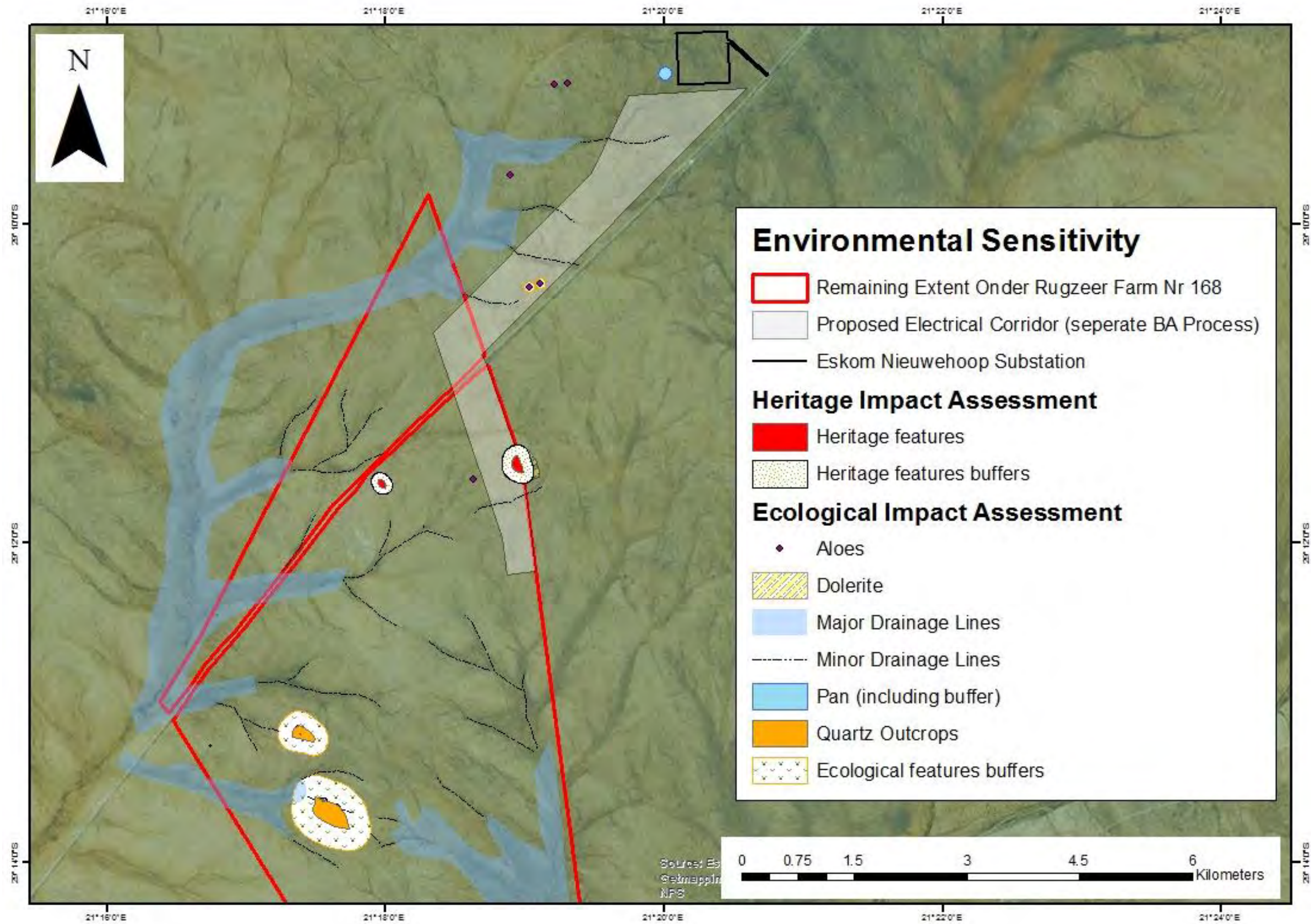
- Appendix J.1 Environmental Sensitivity Map
- Appendix J.2 Layout Plan
- Appendix J.3 Title Deeds

Scoping and Environmental Impact Assessment for the Proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 3) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

Appendix J.1: Environmental Sensitivity Map



Sensitivity Map for Kenhardt PV 3



Combined Sensitivity Layout Map for Kenhardt PV 1, 2 and 3

Appendix J.2: Layout Map



Appendix J.3: Title Deed for Remaining Extent of Onder Rugzeer Farm 168




151
MARAIS MÜLLER

Opgestel deur my:


TRANSPORTBESORGER
HOFMEYR M T S

SEELFEE DUTY	R.
FOOI FEE	R. 100,00

VERBIND - MORTGAGED	
VIR FOR R. 400 000,00	
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T 1519 196

TRANSPORTAKTE

HIERBY WORD BEKENDGEMAAK:

DAT JOHANNES HENDRIK VAN DER VYVER KRISTO STOFBERG
voor my, Registrateur van Aktes
verskyn het te KAAPSTAD
hy, die genoemde komparant synde behoorlik daartoe gemagtig deur 'n volmag aan hom
verleen deur

THERESA VAN NIEKERK
Identiteitsnommer 401106 0045 00 5
Getroud buite gemeenskap van goed

gedateer die 31ste dag van OKTOBER 1995, en geteken te STELLENBOSCH

1511  

- 2 -

En genoemde Komparant het verklaar dat Sy voorsegde Prinsipaal werklik en wettiglik verkoop het op 31 Mei 1995

en dat hy in sy voornoemde hoedanigheid hierby in volkome en vrye eiendom sedeer en transporteer aan en ten gunste van

Die Trustees indertyd van die VAN NIEKERK GESINSTRUST
Nr. T. 4311/94

Of diese regverkrygendes

1. DIE RESTANT van die Plaas **ONDER RUGZEER NR. 168** in die Afdeling van Kenhardt, Provinsie van die Noord-Kaap:

GROOT: 5677,5041 (Vyf Duisend Ses Honderd Sewe en Sewentig Komma Vyf Nul Vier Een) hektar:

OORSPRONKLIK OORGEDRA kragtens Grondbrief gedateer 8 Maart 1890 (Carnarvon Erfpate Boekdeel 3 Nr. 18) met Kaart wat daarop betrekking het en gehou kragtens Transportakte Nr. T.46901/92. (para 1)

- A. **ONDERHEWIG** aan die voorwaardes waarna verwys word in Grondbrief gedateer 8 Maart 1890 (Carnarvon Erfpate Boekdeel 3 Nr. 18), waarvan paragraaf V. soos volg lees:

"V. That all rights to gold, silver and precious stones found or discovered at any time on or in the said land, shall be reserved to the State, together with a right of ingress to and egress from any mines or works undertaken for mining or prospecting purposes by any person or persons authorised by the Commissioner; but subject always to the provisions of the Act No. 44 of 1887 or any other Act to be hereafter passed with regard to prospecting and mining for precious stones or minerals."

- B. **ONDERHEWIG VERDER** aan die bepalinge van 'n endossement gedateer 21 Maart 1980 aangebring op Verdelingstransportakte Nr. T.2938/1952, welke endossement soos volg lees:

"Endossement ingevolge Artikel 2A.(2) van die Spoorweg & Hawe Aankoopwet 1977 (Wet 47/1977) soos gewysig deur Wet 80/1979

Aangesien Die Republiek van Suid Afrika (in sy Administrasie van Spoorweë & Hawens) die grond groot ongeveer 47,664 hektaar wat deur die Suid Afrikaanse Yster & Staal Industriële Korporasie Bpk. kragtens onteienings Kennisgewing No. 108(c) onteien is, van die genoemde Korporasie gekoop het, vestig die gemelde grond ingevolge die bepalings van Artikel 2A. (1) van die bovermelde Wet in die Republiek van Suid Afrika (in sy Administrasie van Spoorweë en Hawens) vanaf 21 Maart 1980.

(Onteienings-endossement/e gedateer 11 September 1974 hierop verwys / Onteienings-endossement vervat as voorwaarde op bladsy hierin verwys).

Aansoek weggeleë as T.7080/1980."

2. DIE RESTANT van die Plaas **BOVEN RUGZEER NR. 169** in die Afdeling van Kenhardt, Provinsie van die Noord-Kaap;

GROOT: 7200,3699 (Sewe Duisend Twee Honderd Komma Drie Ses Nege Nege) hektaar;

OORSPRONKLIK OORGEDRA kragtens Grondbrief gedateer 13 Mei 1890 (Carnarvon Erfpagie Boekdeel 3 Nr. 25) met Kaart wat daarop betrekking het en gehou kragtens Transportakte Nr. T.46901/92. (para 2)

ONDERHEWIG aan die voorwaardes waarna verwys word in Transportakte Nr. T.14345/1944.

Weshalwe die Komparant afstand doen van al die regte en titeel wat die genoemde TRANSPORTGEWER

voorheen op genoemde eiendom gehad het en gevolglik ook erken dat die genoemde TRANSPORTGEWER geheel en al van die besit daarvan onthef en nie meer daartoe geregtig is nie en dat, kragtens hierdie akte, bogenoemde TRANSPORTNEMER TRUSTEES

Of die se Regverkrygendes tans en voortaan daartoe geregtig is, ooreenkomstig plaaslike gebruik, behoudens die regte van die Staat en ten slotte erken ' dat die volle koopsom ten bedrae van R550 428,00 behoorlik betaal en verseker is.

Ten bewyse waarvan ek, genoemde Registrateur van Aktes tesame met die Komparant hierdie Akte onderteken en dit met die ampseël bekragtig het.

Aldus gedoen en verly op die kantoor van die Registrateur van Aktes

te KAAPSTAD
op

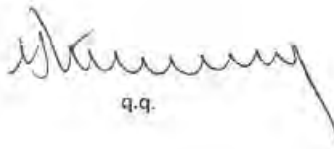
10 Januarie

1996

In my teenwoordigheid,



Registrateur van Aktes.



q.q.