



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: 14/12/16/3/3/2/694/2

Enquiries: Ms Mmamohale Kabasa

Telephone: (012) 399 9420 **E-mail:** MKabasa@environment.gov.za

Kotulo Tsatsi Energy (Pty) Ltd
Mr Adriaan Botha
PO Box 423
VANDERBIJLPARK
1900

Telephone Number: (016) 986 0691
Email Address: attie@exherdeo.com

PER EMAIL / MAIL

Dear Mr Botha

APPLICATION FOR ENVIRONMENTAL AUTHORISATION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, 1998: GN R. 543/544/545/546 FOR THE 200MW SOLARRESERVE KOTULO TSATSI CONCENTRATED SOLAR POWER FACILITY 2 (CSP 2) AND ITS ASSOCIATED INFRASTRUCTURE ON PORTION 3 OF THE FARM STYNS VLEY 280 NEAR KENHARDT WITHIN THE HANTAM AND KAI !GARIB LOCAL MUNICIPALITIES IN THE NORTHERN CAPE PROVINCE

With reference to the above application, please be advised that the Department has decided to grant authorisation. The environmental authorisation (EA) and reasons for the decision are attached herewith.

In terms of Regulation 10(2) of the Environmental Impact Assessment Regulations, 2010 (the Regulations), you are instructed to notify all registered interested and affected parties, in writing and within 12 (twelve) days of the date of the EA, of the Department's decision in respect of your application as well as the provisions regarding the submission of appeals that are contained in the Regulations.

Your attention is drawn to Chapter 7 of the Regulations, which prescribes the appeal procedure to be followed. This procedure is summarised in the attached document. Kindly include a copy of this document with the letter of notification to interested and affected parties.

Should the applicant or any other party wish to appeal any aspect of the decision a notice of intention to appeal must be lodged by all prospective appellants with the Minister, within 20 days of the date of the EA, by means of one of the following methods:

By post: Private Bag X447,
Pretoria, 0001; or

By hand: Environment House
473 Steve Biko,
Arcadia,
Pretoria

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If the applicant wishes to lodge an appeal, it must also serve a copy of the notice of intention to appeal on all registered interested and affected parties as well as a notice indicating where, and for what period, the appeal submission will be available for inspection, should you intend to submit an appeal.

Appeals must be submitted in writing to:

Mr. Z Hassam, Director: Appeals and Legal Review, of this Department at the above mentioned addresses. Mr. Hassam can also be contacted at:

Tel: (012) 399 9356

Email: AppealsDirectorate@environment.gov.za

The authorised activities must not commence within twenty (20) days of the date of signature of the environmental authorisation. Further, please note that in terms of section 43(7) of the National Environmental Management Act, 1998, an appeal under section 43 of that Act will suspend the environmental authorisation or any provision or condition attached thereto. In the instance where an appeal is lodged, you may not commence with the activity until such time that the appeal is finalised.

To obtain the prescribed appeal form and for guidance on the submission of appeals, please visit the Department's website at https://www.environment.gov.za/documents/forms#legal_authorisations or request a copy of the documents at appealsdirector@environment.gov.za.



Mr Sabelo Malaza
Chief Director: Integrated Environmental Authorisations
Department of Environmental Affairs

Date: 28/02/2017

cc:	K Jodas	Savannah Environmental (Pty) Ltd	Tel: (011) 656 3237	Email: karen@savannahsa.com
	B Fisher	NCDENC	Tel: (053) 807 7431	Email: BFisher@ncpg.gov.za
	J Lategan	!Kai Garib Local Municipality	Tel: (054) 431 6300	Email: mm@kaigarib.gov.za
	C du Plessis	Hantam Local Municipality	Tel: (027) 341 8500	Email: municipalmanager@hantam.gov.za

APPEALS PROCEDURE IN TERMS OF CHAPTER 7 OF THE NEMA EIA REGULATIONS, 2010 (THE REGULATIONS) AS PER GN R. 543 OF 2010 TO BE FOLLOWED BY THE APPLICANT AND INTERESTED AND AFFECTED PARTIES UPON RECEIPT OF NOTIFICATION OF AN ENVIRONMENTAL AUTHORISATION (EA)

APPLICANT	INTERESTED AND AFFECTED PARTIES (IAPs)
1. Receive EA from the relevant Competent Authority (the Department of Environmental Affairs [DEA]).	1. Receive EA from Applicant/Consultant.
2. Within 12 days of date of the EA notify all IAPs of the EA and draw their attention to their right to appeal against the EA in terms of Chapter 7 of the Regulations.	2. N/A.
3. If you want to appeal against the EA, submit a notice of intention to appeal within 20 days of the date of the EA with the Minister of Environmental Affairs (the Minister).	3. If you want to appeal against the EA, submit a notice of intention to appeal within 20 days of the date of the EA with the Minister of Environmental Affairs (the Minister).
4. After having submitted your notice of intention to appeal to the Minister, provide each registered IAP with a copy of the notice of intention to appeal within 10 days of lodging the notice.	4. After having submitted your notice of intention to appeal to the Minister, provide the applicant with a copy of the notice of intention to appeal within 10 days of lodging the notice.
5. The Applicant must also serve on each IAP: <ul style="list-style-type: none"> • a notice indicating where and for what period the appeal submission will be available for inspection. 	5. Appellant must also serve on the Applicant within 10 days of lodging the notice, <ul style="list-style-type: none"> • a notice indicating where and for what period the appeal submission will be available for inspection by the applicant.
6. The appeal must be submitted in writing to the Minister within 30 days after the lapsing of the period of 20 days provided for the lodging of the notice of intention to appeal.	6. The appeal must be submitted to the Minister within 30 days after the lapsing of the period of 20 days provided for the lodging of the notice of intention to appeal.
7. Any IAP who received a notice of intention to appeal may submit a responding statement to that appeal to the Minister within 30 days from the date that the appeal submission was lodged with the Minister.	7. An Applicant who received notice of intention to may submit a responding statement to the appeal to the Minister within 30 days from the date that the appeal submission was lodged with the Minister.

NOTES:

1. **An appeal must be:-**
 - a) submitted in writing;
 - b) accompanied by:
 - a statement setting out the grounds of appeal;
 - supporting documentation which is referred to in the appeal; and
 - a statement that the appellant has complied with regulation 62 (2) or (3) together with copies of the notices referred to in regulation 62.



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

Environmental Authorisation

In terms of Regulation 36 of the Environmental Impact Assessment Regulations, 2010

The establishment of the 200MW SolarReserve Kotulo Tsatsi Concentrated Solar Power Facility 2 (CSP 2) and its associated infrastructure on Portion 3 of the Farm Styns Vley 280 near Kenhardt within the Hantam and Kai !Garib Local Municipalities in the Northern Cape Province

Namakwa District Municipality

ZF Mgcawu District Municipality

Authorisation register number:	<i>14/12/16/3/3/2/694/2</i>
Last amended:	<i>First issue</i>
Holder of authorisation:	<i>Kotulo Tsatsi Energy (Pty) Ltd</i>
Location of activity:	<i>Portion 3 of the Farm Styns Vley 280 Hantam Local Municipality Kai Garib Local Municipality Namakwa District Municipality ZF Mgcawu District Municipality Northern Cape Province</i>

This environmental authorisation does not negate the holder of the authorisation's responsibility to comply with any other statutory requirements that may be applicable to the undertaking of the activity.

Decision

The Department is satisfied, on the basis of information available to it and subject to compliance with the conditions of this environmental authorisation, that the applicant should be authorised to undertake the activities specified below.

Non-compliance with a condition of this environmental authorisation may result in criminal prosecution or other actions provided for in the National Environmental Management Act, 1998 and the EIA regulations.

Details regarding the basis on which the Department reached this decision are set out in Annexure 1.

Activities authorised

By virtue of the powers conferred on it by the National Environmental Management Act, 1998 (Act No.107 of 1998) and the Environmental Impact Assessment Regulations, 2010 the Department hereby authorises –

KOTULO TSATSI ENERGY (PTY) LTD

(hereafter referred to as the **holder of the authorisation**)

with the following contact details –

Mr Adriaan Botha
PO Box 423
VANDEBIJLPARK
1900

Telephone number: (016) 986 0691
Fax number: (016) 986 0497
Cell phone Number: (083) 628 7323
E-mail Address: attie@exheredo.com

to undertake the following activities (hereafter referred to as "the activity") indicated in Listing Notices 1, Listing Notice 2 and Listing Notice 3 (GN R. 544, 545 & 546):

Listed activities	Activity/Project description
<p><u>GN R. 544 Activity 9:</u> <i>"The construction of facilities or infrastructure exceeding 1000 metres in length for the bulk transportation of water, sewage or storm water</i> (i) <i>with an internal diameter of 0.36 metres or more..."</i></p>	<p>The facility will include the construction of a pipeline with an internal diameter of 0.36 metres or more for the bulk transportation of water.</p>
<p><u>GN R. 544 Activity 10:</u> <i>"The construction of facilities or infrastructure for the transmission and distribution of electricity -</i> (i) <i>outside urban areas or industrial complexes with a capacity of more than 33 but less than 275 kilovolts."</i></p>	<p>The facility will be required to evacuate electricity into the national grid and include the construction of a powerline of up to 275kV connecting to an onsite substation and Eskom switching station.</p>
<p><u>GN R.544 Activity 11:</u> <i>"The construction of:</i> (xi) <i>infrastructure or structures covering 50 square meters or more, where such construction occurs within a watercourse or within 32 metres of a watercourse, measured from the edge of a watercourse, excluding where such construction will occur behind the development setback line."</i></p>	<p>Infrastructure exceeding 50m² are required to be constructed within 32m of the drainage lines.</p>
<p><u>GN R. 544 Activity 12:</u> <i>"The construction of facilities or infrastructure for the off-stream storage of water, including dams and reservoirs, with a combined capacity of 50000 cubic metres or more, unless such storage falls within the ambit of activity 19 of Notice 545 of 2010"</i></p>	<p>Ancillary infrastructure includes the construction of a raw water storage reservoir/s on the site and evaporation ponds.</p>
<p><u>GN R. 544 Activity 13:</u> <i>"The construction of facilities or infrastructure for the storage, or for the storage and handling, of a dangerous good, where such storage occurs in</i></p>	<p>The auxiliary steam boiler will be used to provide process steam to the facility (i.e. to supplement generation). The fuel (i.e. diesel or liquid</p>

Listed activities	Activity/Project description
<i>containers with a combined capacity of 80 but not exceeding 500 cubic metres"</i>	petroleum gas (LPG) for the boiler will be required to be stored at the facility and will have a storage capacity of more than 80 cubic metres, but less than 500 cubic metres.
<p><u>GN R.544 Activity 18</u> <i>"The infilling or depositing of any material of more than 5 cubic metres into, or the dredging, excavation, removal or moving of soil, sand, shells, shell grit, pebbles or rock or more than 5 cubic metres from:</i> (i) <i> a watercourse."</i></p>	New access roads within the project site will transverse drainage lines which are required to be infilled for the construction of the road.
<p><u>GN R. 544 Activity 22:</u> <i>"The construction of a road, outside urban areas,</i> (ii) <i> where no road reserve exists where the road is wider than 8 metres."</i></p>	Access roads of approximately 8m in width are required to be constructed in order to access the project site from the main provincial gravel road.
<p><u>GN R.544 Activity 47:</u> <i>"The widening of a road by more than 6 metres, or the lengthening of a road by more than 1 kilometre</i> (ii) <i> where no reserve exists, where the existing road is wider than 8 metres-excluding widening or lengthening occurring inside urban area."</i></p>	The development of the facility may require the widening or lengthening of the existing road along certain sections in order to accommodate abnormal loads.
<p><u>GN R. 545 Activity 1:</u> <i>"The construction of facilities or infrastructure for the generation of electricity where the electricity output is 20 megawatts or more."</i></p>	The proposed CSP facility will have a generation capacity of 200MW.
<p><u>GN R. 545 Activity 5:</u> <i>"The construction of facilities or infrastructure for any process or activity which requires a permit or license in terms of national or provincial legislation governing the generation or release of emissions, pollution or effluent and which is not identified in Notice No. 544 of 2010 or included in the list of waste management activities published in terms of section 19 of the</i></p>	An evaporation pond is required to be constructed which will accept the water discard stream from the energy generation process.

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Listed activities	Activity/Project description
<p><i>National Environmental Management Waste Act, 2008 (Act No. 59 of 2008) in which case that Act will apply."</i></p>	
<p><u>GN R.545 Activity 8:</u> <i>"The construction of facilities or infrastructure for the transmission and distribution of electricity with a capacity of 275kV or more, outside an urban area or industrial complex"</i></p>	<p>The facility will be required to evacuate electricity into the national grid and will require the construction of a 400kV loop in loop out powerline to facilitate a connection to the existing Aries-Helios 400kV powerline.</p>
<p><u>GN R. 545 Activity 15:</u> <i>"Physical alteration of undeveloped, vacant or derelict land for residential, retail, commercial, recreational, industrial or institutional use where the total area to be transformed is 20 hectares or more."</i></p>	<p>The total development footprint for the CSP facility, including associated infrastructure is 1000ha in extent.</p>
<p><u>GN R. 546 Activity 2:</u> <i>"The construction of reservoirs for bulk water supply with a capacity of more than 250 cubic metres in</i> (a) Northern Cape: (iii) Outside urban areas, in: (bb) Sensitive arrears as identified in an environmental management framework as contemplated in chapter 5 of the Act and as adopted by the competent authority"</p>	<p>Associated infrastructure includes raw water storage reservoirs situated within an Ecological Support Area (ESA) as identified in the Environmental Management Framework (EMF) for the Namakwa District Municipality.</p>
<p><u>GN R. 546 Activity 4:</u> <i>"The construction of a road wider than 4 metres with a reserve less than 13,5 metres in the</i> (a) Northern Cape: (ii) Outside urban arrears (cc) sensitive areas as identified in an environmental management framework as contemplated in chapter 5 of the Act and as adopted by the competent authority"</p>	<p>A road wider than 4m may need to be constructed within an area that the EMF identifies as an ESA.</p>

Listed activities	Activity/Project description
<p><u>GN R. 546 Activity 10:</u></p> <p><i>"The construction of facilities or infrastructure for the storage, or storage and handling of a dangerous good, where such storage occurs in containers with a combined capacity of 30 but not exceeding 80 cubic metres"</i></p> <p>(a) Northern Cape: (ii) Outside urban arrears (cc) sensitive areas as identified in an environmental management framework as contemplated in chapter 5 of the Act and as adopted by the competent authority"</p>	<p>The auxiliary steam boiler will be used to provide process steam to the facility (i.e. to supplement generation). The fuel ((i.e. diesel or liquid petroleum gas (LPG)) for the boiler will be required to be stored at the facility in a sensitive area as identified in the EMF for the Namakwa District Municipality.</p>
<p><u>GN R.546 Activity 12:</u></p> <p><i>"The clearance of an area of 300 square metres or more of vegetation where 75% or more of the vegetative cover constitutes indigenous vegetation</i></p> <p>(b) Within critical biodiversity areas identified in bioregional plans"</p>	<p>The development is situated in an ESA, the construction may result in the clearance of 300m² or more of indigenous vegetation where 75% of which constitutes indigenous vegetation.</p>
<p><u>GN R. 546 Activity 13:</u></p> <p><i>"The clearance of an area of 1 hectare or more of vegetation where 75% or more of the vegetative cover constitutes indigenous vegetation...</i></p> <p>(a) Critical biodiversity areas and ecological support areas as identified in systematic biodiversity plans adopted by the competent authority. (c) Northern Cape: (ii) outside urban areas: (cc) Sensitive areas as identified in an environmental management framework as contemplated in chapter 5 of the Act and as adopted by the competent authority"</p>	<p>The proposed facility occurs within an ESA and will require the clearance of vegetative cover which will be more than 75% indigenous vegetation.</p>

Listed activities	Activity/Project description
<p><u>GN R. 546 Activity 14:</u> <i>"The clearance of an area of 5 Ha or more of vegetation where 75% or more of the vegetative cover constitutes indigenous vegetation.</i> (a) <i>In Northern Cape:</i> i. <i>All areas outside urban areas."</i></p>	<p>The establishment of the proposed CSP facility will require the clearance of 75% or more indigenous vegetation within the site with an area of more than 5ha.</p>
<p><u>GN R. 546 Activity 16:</u> <i>"The construction of:</i> (iv) <i>infrastructure covering 10 square metres or more</i> <i>where such construction occurs within a watercourse or within 32 metres of a watercourse, measured from the edge of a watercourse, excluding where such construction will occur behind the development setbackline</i> (a) <i>in the Northern Cape,</i> (ii) <i>outside urban areas, in:</i> (dd) <i>Sensitive areas as identified in an environmental management framework as contemplated in chapter 5 of the Act and as adopted by the competent authority."</i></p>	<p>Infrastructure larger than 10m² which occur within 32m of a watercourse may be required to be built in a sensitive area as identified in the EMF for the Namakwa District Municipality.</p>
<p><u>GN R. 546 Activity 19:</u> <i>"The widening of a road by more than 4 metres, or the lengthening of a road by more than 1 kilometre.</i> (a) <i>In Northern Cape</i> (ii) <i>outside urban areas, in:</i> (cc) <i>sensitive areas as identified in an environmental management framework as contemplated in Chapter 5 of the Act and as adopted by the competent authority"</i></p>	<p>Existing roads will need to be widened or lengthened in an area situated within the ESA.</p>

The following listed activities as described in GN R 983, GN R 984 and GN R 985:

Activity number	Activity description
<p><u>GN R. 983 Activity 9:</u> <i>"The construction of facilities or infrastructure exceeding 1000 metres in length for the bulk transportation of water, sewage or storm water</i> <i>(i) with an internal diameter of 0.36 metres or more"</i></p>	<p>The facility will include the construction of a pipeline with an internal diameter of 0.36 metres or more for the bulk transportation of water.</p>
<p><u>GN R. 983 Activity 11:</u> <i>"The development of facilities or infrastructure for the transmission and distribution of electricity-</i> <i>(i) outside urban areas or industrial complexes with a capacity of more than 33 but less than 275 kV...."</i></p>	<p>The proposed facility will be required to evacuate electricity into the national grid and include the construction of a distribution line of less than 275kV.</p>
<p><u>GN R 983 Activity 12:</u> <i>"The development of-</i> <i>(xii) infrastructure or structures with a physical footprint of 100 square metres or more; where such development occurs-</i> <i>(a) within a watercourse;</i> <i>(c) if no development setback exists, within 32 metres of a watercourse, measured from the edge of a watercourse"</i></p>	<p>Bridges for access roads and cabling structures are required to cross the non-perennial stream traversing the site and infrastructure exceeding 50m² are required to be constructed within 32m of a watercourse.</p>
<p><u>GN R. 983 Activity 13:</u> <i>"The development of facilities or infrastructure for the off-stream storage of water, including dams and reservoirs, with a combined capacity of 50000 cubic metres or more, unless such storage falls within the ambit of activity 16 of Listing Notice 2 of 2014."</i></p>	<p>Ancillary infrastructure includes water storage reservoir/s on the site and evaporation ponds (for clean water storage, wastewater from the generation process and water treatment plant). The combined capacity of these exceeds 50000m³.</p>
<p><u>GN R. 983 Activity 14:</u> <i>"The development of facilities or infrastructure, for the storage, or for the storage and handling, of a</i></p>	<p>The auxiliary steam boiler will be used to provide process steam to the facility (i.e. to supplement</p>

<p><i>dangerous good, where such storage occurs in containers with a combined capacity of 80 cubic metres or more but not exceeding 500 cubic metres</i></p>	<p>generation). The fuel (i.e. diesel or liquid petroleum gas (LPG)) for the boiler will be required to be stored at the facility and will have a storage capacity of more than 80 cubic metres, but less than 500 cubic meters.</p>
<p><u>GN R. 983 Activity 19:</u> <i>"The infilling or depositing of any material of more than 5 cubic metres into, or the dredging, excavation, removal or moving of soil, sand, shells, shell grit, pebbles or rock of more than 5 cubic metres from-</i> <i>(i) a watercourse;"</i></p>	<p>The construction of the facility and/or associated infrastructure which crosses the ephemeral drainage line will require the infilling, excavation, removal or moving of any material into or from a watercourse.</p>
<p><u>GN R.983 Activity 24:</u> <i>"The development of-</i> <i>(ii) a road with a reserve wider than 13,5 metres, or where no reserve exists where the road is wider than 8 metres"</i></p>	<p>Access roads are required to be constructed in order to access the project site from the main provincial gravel road.</p>
<p><u>GN R. 983 Activity 27:</u> <i>"The clearance of an area of 1 hectares or more, but less than 20 hectares of indigenous vegetation, except where such clearance of indigenous vegetation is required for –</i> <i>(i) The undertaking of a linear activity or</i> <i>(ii) Maintenance purposes undertaken in accordance with a maintenance management plan"</i></p>	<p>The construction may result in the clearance of 1 hectare or more of indigenous vegetation.</p>
<p><u>GN R. 983 Activity 56:</u> <i>"The widening of a road by more than 6 metres, or the lengthening of a road by more than 1 kilometre-</i> <i>(ii) where the existing reserve is wider than 13,5 meters"</i></p>	<p>The development of the facility will require the widening or lengthening of the existing access road.</p>
<p><u>GN R. 984 Activity 1:</u> <i>"The development of facilities or infrastructure for the generation of electricity from a renewable resource where the electricity output is 20MW or more..."</i></p>	<p>The facility will consist of a power tower and heliostats with a generation capacity of up to 200MW.</p>

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<p><u>GN R. 984 Activity 6:</u> <i>"The development of facilities or infrastructure for any process or activity which requires a permit or license in terms of national or provincial legislation governing the generation or release of emissions, pollution or effluent..."</i></p>	<p>The evaporation ponds require a Water Use Licence for the release of pollution and effluents in a lined lagoon.</p>
<p><u>GN R. 984 Activity 9:</u> <i>"The development or construction of facilities or infrastructure for the transmission and distribution of electricity with a capacity of 275 kV or more, outside an urban area or industrial complex"</i></p>	<p>The proposed facility will be required to evacuate electricity into the national grid and include the construction of a powerline of up to 275kV, an onsite substation and Eskom switching station.</p>
<p><u>GN R. 985 Activity 2:</u> <i>"The development of reservoirs for bulk water supply with a capacity of more than 250 cubic metres.</i> <i>(a) In the Northern Cape</i> <i>(iii) outside urban areas;</i> <i>(dd) Critical biodiversity areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans"</i></p>	<p>The EMF identifies the area the site is located within as an ESA.</p>
<p><u>GN R. 985 Activity 4:</u> <i>"The development of a road wider than 4 metres with a reserve less than 13, 5 metres.</i> <i>(a) in the Northern Cape</i> <i>(i) Outside urban areas</i> <i>(cc) sensitive areas as identified in an environmental management framework as contemplated in chapter 5 of the Act and as adopted by the competent authority"</i></p>	<p>A road wider than 4m may need to be constructed in an ESA as identified in the District Municipality's EMF.</p>

<p><u>GN R. 985 Activity 10:</u> <i>"The construction of facilities or infrastructure for the storage, or storage and handling of a dangerous good, where such storage occurs in containers with a combined capacity of 30 but not exceeding 80 cubic metres</i> <i>(a) in the Northern Cape</i> <i>(ii) Outside urban areas</i> <i>(cc) sensitive areas as identified in an environmental management framework as contemplated in chapter 5 of the Act and as adopted by the competent authority"</i></p>	<p>The auxiliary steam boiler will be used to provide process steam to the facility (i.e. to supplement generation). The fuel ((i.e. diesel or liquid petroleum gas (LPG)) for the boiler will be required to be stored at the facility in a sensitive area as identified in the EMF for the Namakwa District Municipality.</p>
<p><u>GN R.985 Activity 12:</u> <i>"The clearance of an area of 300 square metres or more of vegetation where 75% or more of the vegetative cover constitutes indigenous vegetation</i> <i>(d) In the Northern Cape</i> <i>(i) Within any critically endangered or endangered ecosystem listed in terms of section 52 of the NEMBA or prior to the publication of such a list, within an area that has been identified as critically endangered in the National Spatial Biodiversity Assessment 2004"</i></p>	<p>The total area to be utilised is more than 300 square metres.</p>
<p><u>GN R. 985 Activity 14:</u> <i>"The development of:</i> <i>(xii) infrastructure or structures with a physical footprint of 10 square metres or more.</i> <i>(a) in the Northern Cape</i> <i>(ii) Outside urban areas in</i> <i>(ff) Critical biodiversity areas or ecosystem service areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans."</i></p>	<p>Buildings and infrastructure larger than 10m² which occur within 32m of an ephemeral drainage line or watercourse may be required to be built in a sensitive area as identified in the District Municipality's EMF.</p>

<p><u>GN R. 985 Activity 18:</u> <i>"The widening of a road by more than 4 metres, or the lengthening of a road by more than 1 kilometre.</i> <i>(a) In the Northern Cape</i> <i>(ii) Outside urban areas, in:</i> <i>(cc) sensitive areas as identified in an environmental management framework as contemplated in Chapter 5 of the Act and as adopted by the competent authority."</i></p>	<p>The development of the facility will require the widening or lengthening of the existing access road in a sensitive area as identified in the District Municipality's EMF.</p>
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as described in the amended Environmental Impact Assessment Report (EIAR) dated September 2016 at:

Development Area	Latitude	Longitude
Northern Corner	29° 45' 30.569" S	20° 34' 57.389" E
Eastern Corner	29° 47' 17.929" S	20° 36' 16.304" E
Southern Corner	29° 49' 10.951" S	20° 34' 25.019" E
Western Corner	29° 47' 36.702" S	20° 32' 30.679" E
Substation (Centre coordinate)	29° 46' 5.482" S	20° 34' 53.478" E
Powerline (Alternative Connection 1)		
Start point (Project Substation)	29° 45' 57.392" S	20° 34' 52.395" E
Middle Point	29° 38' 28.690" S	20° 43' 4.766" E
End Point (Aries Substation)	29° 29' 41.348" S	20° 47' 38.419" E

- for the 200MW SolarReserve Kotulo Tsatsi Concentrated Solar Power Facility 2 (CSP 2) and its associated infrastructure on Portion 3 of the Farm Styns Vley 280 near Kenhardt, which falls within the Hantam and Kai !Garib Local Municipalities in the Northern Cape Province, hereafter referred to as "the property".

The 200MW SolarReserve Kotulo Tsatsi Concentrated Solar Power Facility 2 (CSP 2) comprise the following:

- Solar collector field/Heliostat field – consists of all systems and infrastructure related to the control and operation of the heliostats;
- Molten salt circuit – includes the thermal storage tanks for storing low and high temperature liquid salt, a central solar-thermal tower receiver, pipelines and molten salt to steam heat exchangers;

- Power block – consists of the steam turbine and generator, as well as the air-cooled condenser and associated feedwater system;
- Auxiliary facilities - consists of the switch yard, step-up transformers, facility start-up generators (gas or diesel-fired – dependent on detailed design);
- On-site IPP/Project Substation and Eskom Substation;
- Grid connection infrastructure up to 400kV between the IPP/Project Substation and the Eskom Substation infrastructure to Aries MTS;
- Access roads (roads up to 8m wide);
- Water supply pipeline within existing road reserves (up to 95km in length);
- Water storage reservoir and tanks (20 000m³ and 5 000m³);
- Water treatment facility;
- Wastewater treatment facility;
- Plant assembly facility;
- Evaporation ponds (approximately 8ha in extent);
- Workshop and office buildings; and,
- Man camp.

Technical details for the facility:

Component	Description/ Dimensions
Location of the site	Portion 3 of the Farm Styns Vley 280 Hantam Local Municipality !Kai Garib Local Municipality Namakwa District Municipality ZF Mgcawu District Municipality 75km south west of the town of Kenhardt and 70 km north of the town of Brandvlei.
Heliostat field and tower area	1000 Ha
SG Codes	C03600000000002800003
Preferred Site access	Access to the site will be from via an existing gravel access road branching off of the R27 between Kenhardt and Brandvlei.
Export capacity	200MW

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Proposed technology	CSP Tower Technology
Height of the receiver tower	Up to 250m in height.
Width and length of the facility internal roads	Width: 8m, length on the main access road: ~2.5km
Width of the powerline corridor	1km

Conditions of this Environmental Authorisation

Scope of authorisation

1. The 200MW SolarReserve Kotulo Tsatsi Concentrated Solar Power Facility 2 (CSP 2) and its associated infrastructure on Portion 3 of the Farm Styns Vley 280 within the Hantam and Kai !Garib Local Municipalities in the Namakwa and ZF Mgcawu District Municipalities, Northern Cape Province are hereby approved.
2. Authorisation of the activity is subject to the conditions contained in this environmental authorisation, which form part of the environmental authorisation and are binding on the holder of the authorisation.
3. The holder of the environmental authorisation is responsible for ensuring compliance with the conditions contained in this environmental authorisation. This includes any person acting on the holder's behalf, including but not limited to, an agent, servant, contractor, sub-contractor, employee, consultant or person rendering a service to the holder of the environmental authorisation.
4. The activities authorised may only be carried out at the property as described above.
5. Any changes to, or deviations from, the project description set out in this environmental authorisation must be approved, in writing, by the Department before such changes or deviations may be effected. In assessing whether to grant such approval or not, the Department may request such information as it deems necessary to evaluate the significance and impacts of such changes or deviations and it may be necessary for the holder of the environmental authorisation to apply for further environmental authorisation in terms of the regulations.
6. This activity must commence within a period of five (05) years from the date of issue of this environmental authorisation. If commencement of the activity does not occur within that period, the environmental authorisation lapses and a new application for environmental authorisation must be made in order for the activity to be undertaken.
7. Commencement with one activity listed in terms of this environmental authorisation constitutes commencement of all authorised activities.

8. The holder of an environmental authorisation must apply for an amendment of environmental authorisation with the competent authority for any alienation, transfer or change of ownership rights in the property on which the activity is to take place.

Notification of authorisation and right to appeal

9. The holder of the authorisation must notify every registered interested and affected party, in writing and within 12 (twelve) calendar days of the date of this environmental authorisation, of the decision to authorise the activity.
10. The notification referred to must –
 - 10.1. specify the date on which the environmental authorisation was issued;
 - 10.2. inform the interested and affected party of the appeal procedure provided for in Chapter 7 of the Environmental Impact Assessment Regulations, 2010;
 - 10.3. advise the interested and affected party that a copy of the environmental authorisation will be furnished on request; and
 - 10.4. give the reasons of the competent authority for the decision.
11. The holder of the authorisation must publish a notice –
 - 11.1. informing interested and affected parties of the decision;
 - 11.2. informing interested and affected parties where the decision can be accessed; and
 - 11.3. drawing the attention of interested and affected parties to the fact that an appeal may be lodged against this decision in the newspaper(s) contemplated and used in terms of regulation 54(2)(c) and (d) and which newspaper was used for the placing of advertisements as part of the public participation process.

Management of the activity

12. A copy of the final development layout map must be made available for comments by registered Interested and Affected Parties and the holder of this environmental authorisation must consider such comments. Once amended, the final development layout map must be submitted to the Department for written approval prior to commencement of the activity. 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:
 - 12.1. Compliance with the conditions of the EA;
 - 12.2. Cable routes (where they are not along internal roads);

- 12.3. Positions of power tower, heliostats and all associated infrastructure;
 - 12.4. Internal roads indicating width;
 - 12.5. Wetlands, drainage lines, rivers, stream and water crossing of roads and cables;
 - 12.6. All sensitive features e.g. Important Bird Areas, Critical Biodiversity Areas, Ecological Support Areas, heritage sites, wetlands, pans and drainage channels that will be affected by the facility and associated infrastructure;
 - 12.7. Substation(s) inverters and/or transformer(s) sites including their entire footprint;
 - 12.8. Connection routes (including pylon positions) to the distribution/transmission network;
 - 12.9. All existing infrastructure on the site, such as roads;
 - 12.10. Buildings, including accommodation; and,
 - 12.11. All "no-go" and buffer areas.
13. The Environmental Management Programme (EMPr) submitted as part of the EIAr is not approved and must be amended to include measures as dictated by the final site layout map and micro-siting, and the provisions of this environmental authorisation. The EMPr must be made available for comments by registered Interested and Affected Parties and the holder of this environmental authorisation must consider such comments. Once amended, the final EMPr must be submitted to the Department for written approval prior to commencement of the activity. Once approved the EMPr must be implemented and adhered to.
 14. The EMPr amendment must include the following:
 - 14.1. The EMPr must incorporate an EMC Control Plan, which identifies potential risk, mitigation measures and appropriate test and acceptable procedures during the design and construction of this facility. The EMC Control Plan must be made available by the holder of this environmental authorisation to Square Kilometre Array South Africa (SKA-SA) for acceptance and must be submitted to this Department for approval prior to construction.
 - 14.2. All mitigation measure arising from compliance with condition 35 of this EA.
 - 14.3. The requirements and conditions of this authorisation.
 - 14.4. All recommendations and mitigation measures recorded in the EIAr.
 - 14.5. All mitigation measures as listed in the specialist reports must be included in the EMPr and implemented.
 - 14.6. The final site layout map.
 - 14.7. 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.

- 14.8. A plant rescue and protection plan which allows for the maximum transplant of conservation important species from areas to be transformed. This plan must be compiled by a vegetation specialist familiar with the site in consultation with the ECO and be implemented prior to commencement of the construction phase.
- 14.9. 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.
- 14.10. 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.
- 14.11. The post construction avifaunal monitoring plan that is in line with Birdlife's most recent avifaunal guideline.
- 14.12. 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.
- 14.13. 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.
- 14.14. 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.
- 14.15. A fire management plan to be implemented during the construction and operational phases.
- 14.16. 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.
- 14.17. An environmental sensitivity map indicating environmental sensitive areas and features identified during the EIA process.

- 14.18. A map combining the final layout map superimposed (overlain) on the environmental sensitivity map. This map must reflect the proposed location of the turbine as stated in the EIAr and this authorisation.
15. The final amended EMPr (once approved) must be implemented and strictly enforced during all phases of the project. It shall be seen as a dynamic document and shall be included in all contract documentation for all phases of the development when approved.
 16. Changes to the EMPr must be submitted to this Department for approval before such changes could be effected.
 17. The Department reserves the right to amend the approved EMPr should any impacts that were not anticipated or covered in the EIAr be discovered.
 18. A shapefile of the development layout/footprint must be submitted to this Department within two months from the date of this decision. 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 or specify if an alternative scale was used. The metadata must include a description of the base data used for digitizing. The shapefile must be submitted in a zip file using the EIA application reference number as the title. The shape file must be submitted to:

Postal Address:

Department of Environmental Affairs
Private Bag X447
Pretoria
0001

Physical address:

Department of Environmental Affairs
Environment House
473 Steve Biko
Arcadia
Pretoria

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

Environmental Control Officer (ECO) and duties

19. The holder of this authorisation must appoint an independent and qualified Environmental Control Officer (ECO) with experience or expertise in undertaking ECO functions. The ECO will have the responsibility to ensure that the conditions referred to in this environmental authorisation are implemented and to ensure compliance with the provisions of the approved EMPr.
20. The ECO must be appointed before commencement of any authorised activity.
21. Once appointed, the name and contact details of the ECO must be submitted to the Director: Compliance Monitoring of this Department.
22. The ECO must meet with the contractors to discuss the conditions of the EA and the contents of the EMPr prior to any site clearing occurring.
23. The ECO must remain employed until all rehabilitation measures, as required for implementation due to construction damage, are completed and the site is ready for operation.
24. Records relating to monitoring and auditing must be kept on site and made available for inspection to the competent authority in respect of this development.
25. The duties of the ECO must include the following:
 - 25.1. Keeping record of all activities on site, problems identified, transgressions noted and a schedule of tasks undertaken by the ECO.
 - 25.2. Keeping and maintaining a detailed incident (including spillage of bitumen, fuels, chemicals, or any other material) and complaint register on site indicating how these issues were addressed, what rehabilitation measures were taken and what preventative measures were implemented to avoid re-occurrence of incidents/complaints.
 - 25.3. Keeping and maintaining a daily site diary.
 - 25.4. Keeping copies of all reports submitted to the Department.
 - 25.5. Keeping and maintaining a schedule of current site activities including the monitoring of such activities.

- 25.6. Obtaining and keeping record of all documentation, permits, licences and authorisations such as waste disposal certificates, hazardous waste landfill site licences etc. required by this facility.
- 25.7. Compiling a monthly monitoring report.

Recording and reporting to the Department

26. The holder of this environmental authorisation must keep all records relating to monitoring and auditing on site and make them available for inspection to any relevant and competent authority in respect of this development.
27. All documentation e.g. audit/monitoring/compliance reports and notifications, required to be submitted to the Department in terms of this environmental authorisation, must be submitted to the Director: Compliance Monitoring at this Department.

Environmental audit report

28. The holder of this environmental authorisation must submit an environmental audit report to the Department within 30 days of completion of the construction phase (i.e. within 30 days of site handover) and within 30 days of completion of rehabilitation activities.
29. The environmental audit report must:
 - 29.1. Be compiled by an independent environmental auditor;
 - 29.2. Indicate the date of the audit, the name of the auditor and the outcome of the audit;
 - 29.3. Evaluate compliance with the requirements of the approved EMPr and this environmental authorisation;
 - 29.4. Include measures to be implemented to attend to any non-compliances or degradation noted;
 - 29.5. Include copies of any approvals granted by other authorities relevant to the development for the reporting period;
 - 29.6. Highlight any outstanding environmental issues that must be addressed, along with recommendations for ensuring these issues are addressed;
 - 29.7. Include a copy of this environmental authorisation and the approved EMPr;
 - 29.8. Include all documentation such as waste disposal certificates, hazardous waste landfill site licences etc. pertaining to this environmental authorisation; and
 - 29.9. Include evidence of adherence to the conditions of this environmental authorisation and the approved EMPr where relevant such as training records and attendance records.

Commencement of the activity

30. The authorised activity shall not commence within twenty (20) days of the date of signature of the environmental authorisation.

Notification to authorities

31. A written notification of commencement must be given to the Department no later than fourteen (14) days prior to the commencement of the activity. Commencement for the purposes of this condition includes site preparation. The notice must include a date on which it is anticipated that the activity will commence. This notification period may coincide with the Notice of Intent to Appeal period.

Operation of the activity

32. A written notification of operation must be given to the Department no later than fourteen (14) days prior to the commencement of the activity operational phase.

Site closure and decommissioning

33. Should the activity ever cease or become redundant, the holder of the authorisation must undertake the required actions as prescribed by legislation at the time and comply with all relevant legal requirements administered by any relevant and competent authority at that time.

Specific conditions

34. An EMC Control Plan, which identifies potential risk, mitigation measures and appropriate test and acceptable procedures during the design and construction of this facility must be developed. The EMC Control Plan must be made available by the holder of the EA to the Square Kilometre Array South Africa (SKA-SA) for acceptance and must be submitted to this Department for approval prior to construction.
35. An avifaunal monitoring programme, stipulating the duration and frequency of monitoring should be prepared by an independent avifaunal specialist appointed by the holder of the EA. The avifaunal monitoring programme is to be submitted by the holder of the EA to the Department for approval prior to construction and must include the following:

- 35.1. The impacts on bird communities and bird movements; and,
 - 35.2. The estimated fatality rates during construction and operational phases.
 36. Should the need for additional mitigation be identified through the results of the monitoring, an adaptive management approach must be adopted to ensure impacts on birds are reduced to acceptable levels.
 37. Monitoring reports and mitigation plans must be made available to the Department and Bird Life SA on a bi-annual basis.
 38. Infrastructure must be designed and/or managed in accordance with the recommendations of the relevant avifaunal specialists as to avoid unduly attracting birds to the facility and in order to prevent and/or mitigate avifaunal impacts.
 39. Should any heritage resources of archaeological or paleontological significance be discovered during construction activities, construction must cease and a Phase 2 rescue operation must be undertaken by a qualified specialist. The findings must be submitted to the South African Heritage Resources Agency (SAHRA) and should they have implications to the layout or mitigation measures, these must be submitted to this Department with SAHRA's recommendations for review and consideration.
 40. The footprint of the development must be limited to the areas required for actual construction works and operational activities. Vegetation clearing must be limited to the required footprint.
 41. Areas outside of the development footprint, including sensitive areas and buffer areas, must be clearly demarcated (using fencing and signage) before construction commences and must be regarded as "no-go" areas. Contractors and construction workers must be clearly informed of the no-go areas.
 42. The holder of this authorisation must train safety representatives, managers and workers on workplace safety. The construction process must be compliant with all safety and health measures as prescribed by the relevant act.
 43. All areas of disturbed soil must be reclaimed using only indigenous grass and shrubs.
 44. Topsoil from all excavations and construction activities must be salvaged and reapplied during reclamation.
 45. Watercourses and associated buffer outside the approved footprint/layout must be treated as "no-go" areas and demarcated as such. No vehicles, machinery, personnel, construction material, fuel, oil, bitumen or waste must be allowed into these areas without the express permission of and supervision by the ECO, except for rehabilitation work in these areas.
 46. Anti-erosion measures such as silt fences must be installed in disturbed areas.
 47. Cleared alien vegetation must be temporarily stored in a demarcated area. Once clearing is completed, they must be moved to a licenced waste disposal facility.
 48. Signs must be placed along construction roads to identify speed limits, travel restrictions, and other standard traffic control information.
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49. Roads must be designed so that changes to surface water runoff are avoided and erosion is not initiated.
50. Should abnormal loads have to be transported by road to the site, a permit must be obtained from the relevant Provincial and National Transport Authority.
51. Leakage of fuel must be avoided at all times and if spillage occurs, it must be remedied immediately. Spill kits must be made available on-site for the clean-up of spills.
52. No dumping or temporary storage of any materials may take place outside designated and demarcated laydown areas, and these must all be located within areas of low environmental sensitivity.
53. Hazardous substances must be stored in a bunded and designated area to avoid accidental leakage into the environment.
54. An integrated waste management approach must be implemented that is based on waste minimisation. Where waste is disposed of, such disposal shall only occur at a landfill licensed in terms of the National Environment Management Waste Act, 2008 (Act 59 of 2008).
55. The holder of this authorisation must take note that no temporary site camps will be allowed outside the footprint of the development area as the establishment of such structures might trigger a listed activity as defined in the Environmental Impact Assessment Regulations, 2010.
56. Foundations and trenches must be backfilled with originally excavated materials as much as possible. Excess excavation materials must be disposed of only in approved areas or, if suitable, stockpiled for use in reclamation activities.
57. Borrow materials must be obtained only from authorized and permitted sites. Permits must be kept on site by the ECO.
58. Dust suppression techniques must be implemented on all exposed surfaces during the construction phase. Such measures may include wet suppression, chemical stabilisation, the use of a wind fence, covering surfaces with straw chippings and re-vegetation of open areas.
59. The holder of this authorisation must reduce visual impacts during construction by minimising areas of surface disturbance, controlling erosion, using dust suppression techniques and restoring exposed soil as closely as possible to their original contour and vegetation.
60. Any vegetation clearing that needs to take place as part of maintenance activities (during the operational phase of the approved development), must be done in accordance to the approved EMPr.
61. Monitoring for erosion must take place to ensure that no erosion problems are occurring at the site as a result of the roads and other infrastructure. All erosion problems observed must be rectified as soon as possible as outlined in the erosion management plan within the EMPr.
62. Kerbs and storm water channels must be designed in such a way that they can allow small animals and reptiles to move freely.

63. The holder of the authorisation must comply with the Conservation of Agricultural Resources Act, 1983 (Act No. 43 of 1983) Articles 7.1 and (3) b of Regulation 9238.
64. Top soil and subsoil must be stockpiled separately and replaced according to the correct profile i.e. topsoil replaced last. Stockpiles must not be situated such that they obstruct natural water pathways and drainage channels.
65. Top soil stockpiles must not exceed 2m in height, stockpiles older than 6 months must be enriched before they can be used to ensure the effectiveness of the topsoil.
66. Any fauna directly threatened by the construction activities must be removed to a safe location by a qualified person.
67. All new powerlines must be marked with bird flight diverters along their entire length. To create a net benefit, where possible, the new lines must run parallel to existing marked lines so as to reduce the collision risk posed by the older lines. The poles must be fitted with bird perches on top of the poles to draw birds, particularly vultures away from the potentially risky insulators. All pylons to be constructed must make use of "bird friendly" structures, fitted with a bird perch, as per Eskom standard guidelines.
68. The recommendations of the EAP in the amended EIAr dated September 2016 and the specialist studies attached must be adhered to. In the event of any conflicting mitigation measures and conditions of the Environmental Authorisation, the specific condition of this Environmental Authorisation will take preference.

General

69. In terms of Section 43(7), an appeal under Section 43 of the National Environmental Management Act, 1998 will suspend the environmental authorisation or any provision or condition attached thereto. In the instance where an appeal is lodged you may not commence with the activity until such time that the appeal has been finalised.
70. A copy of this authorisation and the approved EMPr must be kept at the property where the activity will be undertaken. The environmental authorisation and approved EMPr must be produced to any authorised official of the Department who requests to see it and must be made available for inspection by any employee or agent of the holder of the authorisation who undertakes work at the property.
71. National government, provincial government, local authorities or committees appointed in terms of the conditions of this authorisation or any other public authority shall not be held responsible for any damages or losses suffered by the holder of the authorisation or his/her successor in title in any instance where construction or operation subsequent to construction be temporarily or permanently stopped for reasons of non-compliance by the holder of the authorisation with the conditions of environmental authorisation as

set out in this document or any other subsequent document emanating from these conditions of environmental authorisation.

Date of environmental authorisation: 28/02/2017


Mr Sabelo Malaza

Chief Director: Integrated Environmental Authorisations
Department of Environmental Affairs

Annexure 1: Reasons for Decision

1. Information considered in making the decision

In reaching its decision, the Department took, *inter alia*, the following into consideration -

- a) The listed activities as applied for in the amended application form received on 03 May 2016.
- b) The information contained in the amended EIAr dated September 2016.
- c) The comments received from organs of state and interested and affected parties as included in the amended EIAr dated September 2016.
- d) Mitigation measures as proposed in the amended EIAr dated September 2016 and the draft EMPr;
- e) The information contained in the specialist studies contained in the amended EIAr dated September 2016 and as appears below:

Title	Prepared by	Date
Ecology assessment	Savannah Environmental (Pty) Ltd. (Marianne Strohbach) and Simon Todd Consulting (Simon Todd)	September 2015
Avifauna assessment	Birds Unlimited Environmental Consultants (Dr. Rob Simmons)	March 2015
Agricultural potential	HydroPedological Solutions (J.J. van Tol)	November 2014
Surface and Groundwater Assessment	Future Flow Groundwater & Project Management Solutions (M. Prinsloo; T. Mgwebi & I. Phalane)	January 2015
Heritage assessment	Heritage Contracts & Archaeological Consulting (J. van der Walt)	August 2015
Visual assessment	NuLeaf Planning and Environmental (Pty) Ltd. and MetroGIS (Pty) Ltd. (M. van der Westhuizen)	March 2015
SKA assessment	ITC Services (Pty) Ltd. (CFH Fouche & J.J. Joubert)	March 2015
Palaeontological assessment	Natura Viva cc (J.E. Almond)	March 2015
Social assessment	Savannah Environmental (Pty) Ltd. (Neville Bews - External reviewer)	October 2015

Noise assessment	Enviro-Acoustic Research cc (M. De Jager)	March 2015
Traffic assessment	Siyazi Gauteng (Pty) Ltd. (P. van der Westhuizen)	October 2014
Economic assessment	Urban-Econ Development Economists (C. Hunter)	January 2015
Draft EMPr	Savannah Environmental (Pty) Ltd. (Karen Jodas, Steven Ingle)	April 2016

- f) The objectives and requirements of relevant legislation, policies and guidelines, including section 2 of the National Environmental Management Act, 1998 (Act 107 of 1998).

2. Key factors considered in making the decision

All information presented to the Department was taken into account in the Department's consideration of the application. A summary of the issues which, in the Department's view, were of the most significance is set out below.

- a) Details provided of the qualifications of the Environmental Assessment Practitioner (EAP).
- b) The findings of all the specialist studies conducted and their recommended mitigation measures.
- c) The need for the proposed project stems from the provision of electricity to the national grid in terms of the Renewable Energy Independent Power Producers Procurement Programme (REIPPPP) as required by the Department of Energy.
- d) The amended EIAr dated September 2016 identified all legislation and guidelines that have been considered in the preparation of the EIAr.
- e) The description of the environment that may be affected by the activity and the manner in which the physical, biological, social, economic and cultural aspects of the environment may be affected by the proposed activity.
- f) The methodology used in assessing the potential impacts identified in the amended EIAr dated September 2016 and the specialist studies have been adequately indicated.
- g) A sufficient public participation process was undertaken and the applicant has satisfied the minimum requirements as prescribed in the EIA Regulations, 2010 for public involvement.

3. Findings

After consideration of the information and factors listed above, the Department made the following findings -

- a) The identification and assessment of impacts are detailed in the amended EIAr dated September 2016 and sufficient assessment of the key identified issues and impacts have been completed.
- b) The procedure followed for impact assessment is adequate for the decision-making process.
- c) The proposed mitigation of impacts identified and assessed adequately curtails the identified impacts.
- d) The information contained in the EIAr dated September 2016 is deemed to be accurate and credible.
- e) EMPr measures for the pre-construction, construction and rehabilitation phases of the development were proposed and included in the EIAr dated September 2016 and will be implemented to manage the identified environmental impacts during the construction phase.

In view of the above, the Department is satisfied that, subject to compliance with the conditions contained in the environmental authorisation, the authorised activity will not conflict with the general objectives of integrated environmental management laid down in Chapter 5 of the National Environmental Management Act, 1998 and that any potentially detrimental environmental impacts resulting from the authorised activity can be mitigated to acceptable levels. The environmental authorisation is accordingly granted.