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PO Box 494  
Cape Town  
8000  
Docex: DX 204

4 July 2013

Email: [simon.clark@aurecongroup.com](mailto:simon.clark@aurecongroup.com)

Department of Environmental Affairs:  
Environmental Impact Evaluation  
Fedsure Building  
315 Pretorius Street  
Pretoria  
0001  
**Attention: The Director**

Dear Mr Dumisane Mthembu,

**PROPOSED HYDROPOWER STATION AND ASSOCIATED INFRASTRUCTURE AT BOEGOEBERG DAM  
ON THE ORANGE RIVER, NEAR GROBLERSHOOP, NORTHERN CAPE:  
SUBMISSION OF AMENDED APPLICATION FORM**

The Department's correspondence of 4 July 2013 rejecting the application for the above-mentioned project has reference. The application has been amended to reflect listed activity 10 of Listing Notice 2 (GN No. 545 of 2010) in terms of the EIA Regulations (GN No. 543 of 2010) in terms of the National Environmental Management Act (No. 107 of 1998)(NEMA) per the Departments request. The purpose of this letter is to submit the amended Application Form for Environmental Authorisation.

**Proposed project**

Hydro 9 SA (Pty) Ltd (Hydro 9 SA) wishes to construct a hydropower station of approximately 10 Megawatt (MW) at Boegoeberg Dam on the Orange River, on the farm Zeekoebaart, approximately 26km south east of Groblershoop (see **Figure 1 & 2**). Hydro 9 SA has appointed Aurecon South Africa (Pty) Ltd as the Environmental Assessment Practitioner.

Run-of-river hydropower stations, such as the proposed, use the natural flow and drop in elevation of a river to produce electricity. A portion of the river's flow is channelled through the hydropower station where the water is then passed through turbines. The spinning of the turbines generate electricity in the same was a coal-fired power station creates steam to turn turbines and wind turbines are turned by wind to generate electricity.

The project would entail the construction of:

- An off-take structure at the weir to facilitate the abstraction of water;
- Water conveyance infrastructure comprising a combination of either a canal (open or closed), a pipeline and/or culverts to convey the water to the power house;
- A head pond;
- Steel (or other suitable pipeline material) penstocks to transfer the water to the power chamber;
- The power chamber or power house;
- Outlet works to release the abstracted water back into the riverine environment, downstream of the power chamber; and
- A 132 kv high voltage (hv) distribution lines to evacuate the power to a nearby Fibre substation.

The transmission route is currently in the planning process and will be finalised and submitted to the Department with the Draft documentation. The proposed power station infrastructure will cover an area of approximately 350m in length, from abstraction point including the power house to the release point (tailrace). The Water will be abstracted at a maximum rate of some 130 cubic metres per second (m<sup>3</sup>/s).

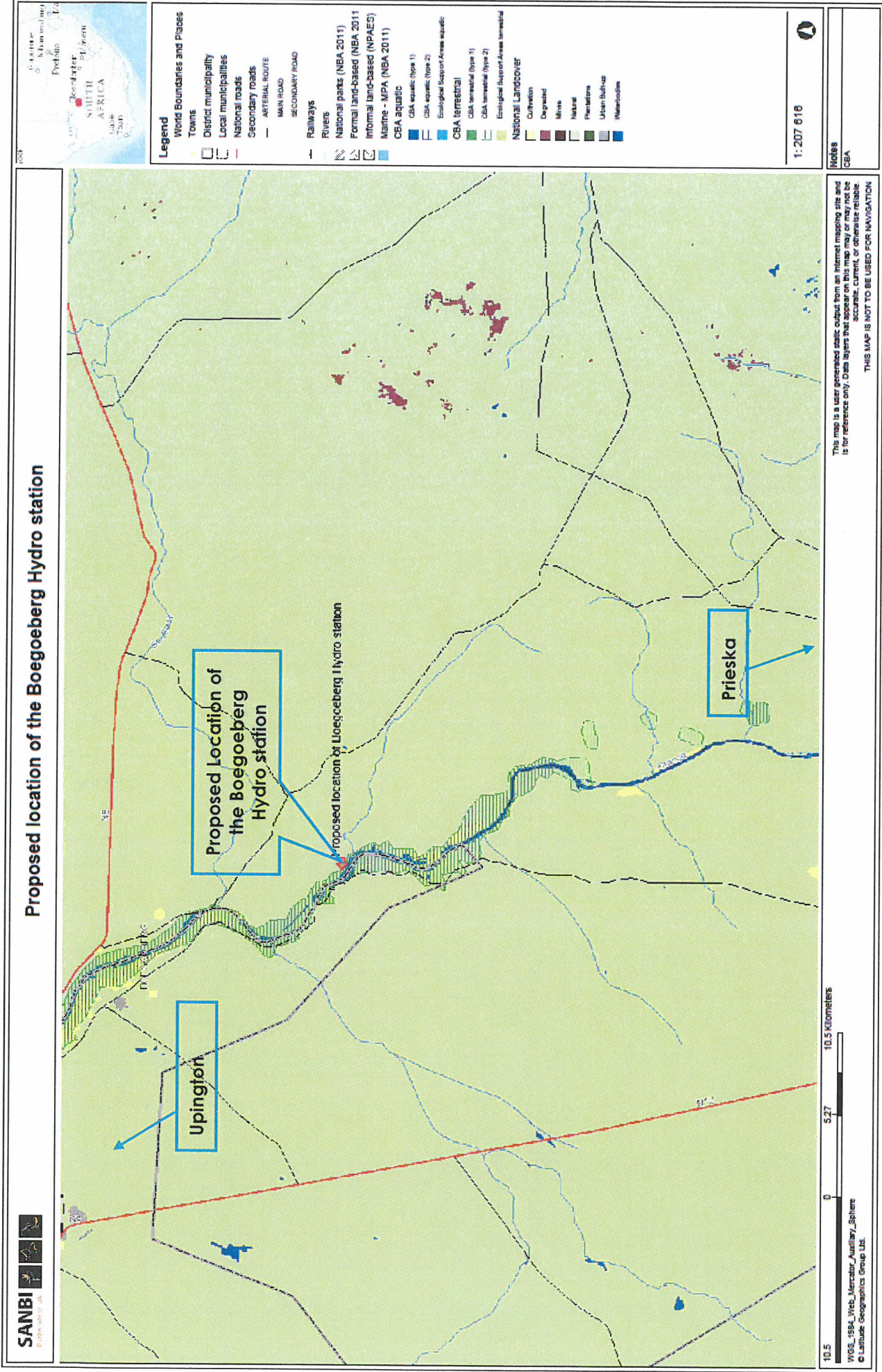


Figure 1 Location of the proposed project (Source: SANBI BGIS).



Figure 2 The existing Boegoeberg dam (Source: Google Earth).

**Amended Application form**

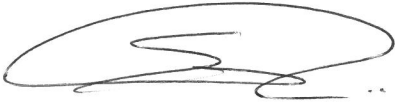
Please find enclosed the amended Application Form for Environmental Authorisation. Please note that the proponent JCD Theron of Hydro 9 SA is currently away and will return on Monday, 8 July 2013. The signed declaration will be forwarded to the Department at this time.

**Way forward**

Please note due to the Department of Energy's bidding process and the associated time constraints of this project it is **URGENTLY** requested that the Department expedite the registration of this Application as information should already have been considered under the original application and only the addition of listed activity 10 of GN545 has been made. We trust that the attached Amended Application Form and additional documentation is sufficient to register the project with your Department, and we look forward to liaising with your Department more extensively in this regard.

Should you have any queries please contact the undersigned.

Yours sincerely  
AURECON



**SIMON CLARK**  
Practitioner: Environment & Advisory Services



**DIANE ERASMUS** (Cert. EAP)  
Associate: Environment & Advisory Services

cc

Ms A Yaphi, Northern Cape Department of Environmental Affairs and Nature Conservation  
Mr N Theron, Boegoeberg Hydropower station



# environmental affairs

Department:  
Environmental Affairs  
REPUBLIC OF SOUTH AFRICA

## APPLICATION FORM FOR ENVIRONMENTAL AUTHORISATION

	(For official use only)
File Reference Number:	12/12/20/
NEAS Reference Number:	DEAT/EIA/
Date Received:	

Application for authorisation in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment Regulations, 2010

### PROJECT TITLE

Proposed hydropower station and associated infrastructure at Boegoeberg dam on the Orange River, near Groblershoop, Northern Cape.

#### Kindly note that:

1. This application form is current as of September 2010. It is the responsibility of the applicant to ascertain whether subsequent versions of the form have been published or produced by the competent authority.
2. The application must be typed within the spaces provided in the form. The sizes of the spaces provided are not necessarily indicative of the amount of information to be provided. Spaces are provided in tabular format and will extend automatically when each space is filled with typing.
3. Where applicable **black out** the boxes that are not applicable in the form.
4. Incomplete applications may be returned to the applicant for revision.
5. The use of the phrase "not applicable" in the form must be done with circumspection. Should it be done in respect of material information required by the competent authority for assessing the application, it may result in the rejection of the application as provided for in the Regulations.
6. This application must be handed in at the offices of the relevant competent authority as determined by the Act and regulations.
7. No faxed or e-mailed applications will be accepted.
8. Unless protected by law, all information filled in on this application will become public information on receipt by the competent authority. Any interested and affected party should be provided with the information contained in this application on request, during any stage of the application process.

#### Queries must be addressed to the contact hereunder:

##### Departmental Details

###### Postal address:

Department of Environmental Affairs  
Attention: Director: Environmental Impact Evaluation  
Private Bag X447  
Pretoria  
0001

###### Physical address:

Department of Environmental Affairs  
Fedsure Forum Building (corner of Pretorius and Van der Walt Streets)  
2<sup>nd</sup> Floor North Tower  
315 Pretorius Street  
Pretoria  
0002

Queries should be directed to the Directorate: Environmental Impact Evaluation at:  
Tel: 012-310-3268  
Fax: 012-320-7539

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

## SITE IDENTIFICATION AND LINKAGE

Please indicate all the Surveyor-general 21 digit site (erf/farm/portion) reference numbers for all sites (including portions of sites) that are part of the application.

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

(if there are **more than 6**, please attach a list with the rest of the numbers)

(These numbers will be used to link various different applications, authorisations, permits etc. that may be connected to a specific site)

Please refer to **Annexure A** for Landowner Details, SG21 codes and Proof of Notification

## PROJECT TITLE

Proposed hydropower station and associated infrastructure at Boegoeberg dam on the Orange River, near Groblershoop, Northern Cape.

### 1. BACKGROUND INFORMATION

Project applicant:	Hydro 9 SA (Pty)Ltd		
Trading name (if any):	-		
Contact person:	Mr Niel Theron		
Physical address:	Third Floor, Terminal Building Execujet Business Centre, Tower Road, Cape Town International Airport		
Postal address:	PO Box 50, Cape Town International Airport		
Postal code:	7525	Cell:	
Telephone:	021 934 5503	Fax:	086 6356 809
E-mail:	<a href="mailto:Niel@hydro-sa.com">Niel@hydro-sa.com</a>		

Provincial Authority:	Northern Cape Department of Environmental Affairs and Nature Conservation		
Contact person:	Ms Anga Yaphi		
Postal address:	Private Bag X6102, Kimberley		
Postal code:	8300	Cell:	079 695 0267
Telephone:	054 332 2885	Fax:	054 331 1155
E-mail:	<a href="mailto:ayaphi@upprov.ncape.gov.za">ayaphi@upprov.ncape.gov.za</a>		

<b>Landowner:</b>	Please refer to <b>Annexure A</b> for Landowner Details		
Contact person:			
Telephone:			
E-mail:			
Local authority in whose jurisdiction the proposed activity will fall:	!Kheis Local Municipality		
Nearest town or districts:	Groblershoop, Northern Cape.		
Contact person:	The Municipal Manager		
Postal address:	Oranje street 97, Groblershoop		
Postal code:	8850	Cell:	-
Telephone:	(054) 8339500	Fax:	054 833 9509

E-mail: ronneywest@kheis.gov.za

Local authority in whose jurisdiction the proposed activity will fall: Siyathemba Local Municipality;

Nearest town or districts: Marydale

Contact person: The Municipal Manager

Postal address: P. O. Box 16

Postal code: 8940

Postal code: 8940

Telephone: (054) 871 5500

Telephone: (054) 871 5500

E-mail: psk.muni@prieska.co.za

Local authority in whose jurisdiction the proposed activity will fall: Siyancuma Local Municipality;

Nearest town or districts: Douglas

Contact person: The Municipal Manager

Postal address: P. O. Box 27, Civic Centre, Otto Du Plessis Square

Postal code: 8730

Postal code: 8730

Telephone: (053) 298 1810

Telephone: (053) 298 1810

E-mail:

## 2. ACTIVITIES APPLIED FOR TO BE AUTHORISED

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

Indicate the number and date of the relevant notice:		No	Relevant notice :	Describe each listed activity as per project description <sup>1</sup> :
<b>Government Notice R544 Activity No(s):</b>				
No. 544, 18 June 2010 (as corrected)	1		The construction of facilities or infrastructure for the generation of electricity where: i. the electricity output is more than 10 megawatts but less than 20 megawatts; or ii. the output is 10 megawatts or less but the total extent of the facility covers an area in excess of 1 hectare	The proposed hydropower station would have an approximate electricity output of <b>10MW</b> .
No. 544, 18 June 2010 (as corrected)	9		The construction of facilities or infrastructure exceeding 1000 metres in length for the bulk transportation of water, sewage or storm water - i. with an internal diameter of 0,36 metres or more; or ii. with a peak throughput of 120 litres per second or more, excluding where: a. such facilities or infrastructure are for bulk transportation of water, sewage or storm water or storm water drainage inside a road reserve; or b. where such construction will occur within urban areas but further than 32 metres from a watercourse, measured from the edge of the watercourse.	The project would consist of an offtake structure at the weir and a pipeline and canal of up to 350 m long. The capacity of the canal would be approximately <b>100 000 to 120 000 litres per second</b> .
No. 544, 18 June 2010 (as corrected)	10		The construction of facilities or infrastructure for the transmission and distribution of electricity:	The hydropower plant would connect to the Eskom grid at the Fibre substation via a <b>132kV transmission line</b> .

<sup>1</sup> Please note that this description should not be a verbatim repetition of the listed activity as contained in the relevant Government Notice, but should be a brief description of activities to be undertaken as per the project description



	<p>i. <b>outside urban areas or industrial complexes with a capacity of more than 33 but less than 275 kilovolts;</b> or</p> <p>ii. inside urban areas or industrial complexes with a capacity of 275 kilovolts or more.</p>		
<p>No. 544, 18 June 2010 (as corrected)</p>	<p>The <b>construction of:</b></p> <ol style="list-style-type: none"> <li>i. canals;</li> <li>ii. channels;</li> <li>iii. bridges;</li> <li>iv. dams;</li> <li>v. weirs;</li> <li>vi. bulk storm water outlet structures;</li> <li>vii. marinas;</li> <li>viii. jetties exceeding 50 square metres in size;</li> <li>ix. slipways exceeding 50 square metres in size;</li> <li>x. buildings exceeding 50 square metres in size; or</li> <li><b>xi. infrastructure or structures covering 50 square metres or more</b></li> </ol> <p><b>where such construction occurs within a watercourse or within 32 metres of a watercourse</b>, measured from the edge of a watercourse, excluding where such construction will occur behind the development setback line.</p>	<p>11</p>	<p>The <b>footprint</b> of the proposed hydropower plant, which would be constructed within and <b>adjacent to the Orange River, would exceed 50 square meters.</b></p>
<p>No. 544, 18 June 2010 (as corrected)</p>	<p>The <b>infilling or depositing of any material of more than 5 cubic metres into</b>, or the dredging, excavation, removal or moving of soil, sand, shells, shell grit, pebbles or rock from</p> <ol style="list-style-type: none"> <li>i. <b>a watercourse;</b></li> <li>ii. the sea;</li> <li>iii. the seashore;</li> <li>iv. the littoral active zone, an estuary or a distance of 100 metres inland of the high-water mark of the sea or an estuary, whichever distance is the greater-</li> </ol> <p>but excluding where such infilling, depositing, dredging, excavation, removal or moving</p> <ol style="list-style-type: none"> <li>i. is for maintenance purposes undertaken in accordance with a management plan agreed to by the relevant environmental authority; or</li> </ol>	<p>18</p>	<p>During construction of the proposed hydropower plant <b>more than 5 cubic metres of material could be removed from the Orange River.</b></p>

		ii. occurs behind the development setback line.	
<b>Government Notice R545 Activity No(s):</b>			
GN No. 545 June 2010 (as corrected)	10	<p>The <b>construction of facilities or infrastructure for the transfer of 50 000 cubic metres or more water per day</b>, from and to or <b>between</b> any combination of the following:</p> <ul style="list-style-type: none"> <li>(i) water catchments,</li> <li>(ii) water treatment works; or</li> <li>(iii) <b>impoundments</b>, excluding treatment works where water is to be treated for drinking purposes.</li> </ul>	<p>The proposed hydropower station would involve the transfer of <b>more than 50, 000m<sup>3</sup> per day</b>.</p>
<b>Government Notice R546 Activity No(s):</b>			
No. 546, 18 June 2010 (as corrected)	4	<p><b>The construction of a road wider than 4 metres</b> with a reserve less than 13,5 metres.</p> <ul style="list-style-type: none"> <li>(a) In Eastern Cape, Free State, KwaZulu-Natal, Limpopo, Mpumalanga and Northern Cape provinces: <ul style="list-style-type: none"> <li>i. In an estuary;</li> <li>ii. <b>Outside urban areas, in:</b> <ul style="list-style-type: none"> <li>(aa) A protected area identified in terms of NEMPAA, excluding conservancies;</li> <li>(bb) National Protected Area Expansion Strategy Focus areas;</li> <li>(cc) <b>Sensitive areas as identified in an environmental management framework as contemplated in chapter 5 of the Act and as adopted by the competent authority;</b></li> <li>(dd) Sites or areas identified in terms of an International Convention;</li> <li>(ee) Critical biodiversity areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans;</li> <li>(ff) Core areas in biosphere reserves;</li> <li>(gg) Areas within 10 kilometres from national parks or world heritage sites or 5 kilometres from any other protected area identified in terms of NEMPAA or from the core areas of a biosphere reserve;</li> <li>(hh) Areas seawards of the development setback line or within 1 kilometre from</li> </ul> </li> </ul> </li> </ul>	<p><b>Access roads</b> to the hydropower station <b>would be approximately 6m in width.</b></p>

<p>the high-water mark of the sea if no such development setback line is determined.</p> <p>iii. In urban areas:</p> <p>(aa) Areas zoned for use as public open space;</p> <p>(bb) Areas designated for conservation use in Spatial Development Frameworks adopted by the competent authority or zoned for a conservation purpose;</p> <p>(cc) seawards of the development setback line or within urban protected areas.</p>		
<p>No. 546, 18 June 2010 (as corrected)</p>	<p>13</p>	<p>The <b>clearance of an area of 1 hectare or more of vegetation where 75% or more of the vegetative cover constitutes indigenous vegetation</b>, except where such removal of vegetation is required for:</p> <p>(2) the undertaking of a linear activity falling below the thresholds mentioned in Listing Notice 1 in terms of GN No. 544 of 2010.</p> <p><b>Northern Cape and Western Cape:</b></p> <p>i. In an estuary;</p> <p>ii. <b>Outside urban areas, the following:</b></p> <p>(aa) A protected area identified in terms of NEMPAA, excluding conservancies;</p> <p>(bb) National Protected Area Expansion Strategy Focus areas;</p> <p>(cc) <b>Sensitive areas as identified in an environmental management framework as contemplated in chapter 5 of the Act and as adopted by the competent authority;</b></p> <p>(dd) Sites or areas identified in terms of an International Convention;</p> <p>(ee) Core areas in biosphere reserves;</p> <p>(ff) Areas within 10 kilometres from national parks or world heritage sites or 5 kilometres from any other protected area identified in terms of NEMPAA or from the core area of a biosphere reserve;</p> <p>(gg) Areas seawards of the development setback line or within 1 kilometre from the high-water mark of the sea if no such development setback line is determined.</p> <p>The <b>footprint</b> of the proposed hydropower station would be greater than <b>1 ha and would be located in CBA.</b></p>

<p>No. 546, 18 June 2010 (as corrected)</p>	<p>14</p>	<p>The clearance of an area of 5 hectares or more of vegetation where 75% or more of the vegetative cover constitutes indigenous vegetation, except where such removal of vegetation is required for:</p> <ul style="list-style-type: none"> <li>(a) purposes of agriculture or afforestation inside areas identified in spatial instruments adopted by the competent authority for agriculture or afforestation purposes;</li> <li>(b) the undertaking of a process or activity included in the list of waste management activities published in terms of section 19 of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) in which case the activity is regarded to be excluded from this list;</li> <li>(c) the undertaking of a linear activity falling below the thresholds in Notice 544 of 2010.</li> </ul>	<p>The footprint of the proposed hydropower station could be greater than 5 ha and would be located in an area of at least 75 % indigenous vegetation.</p>
<p>No. 546, 18 June 2010 (as corrected)</p>	<p>16</p>	<p>The construction of:</p> <ul style="list-style-type: none"> <li>i) jetties exceeding 10 square metres in size;</li> <li>ii) slipways exceeding 10 square metres in size;</li> <li>iii) buildings with a footprint exceeding 10 square metres in size; or</li> <li>iv) infrastructure covering 10 square metres or more</li> </ul> <p>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.</p>	<p>The footprint of the proposed hydropower plant, which would be constructed within and adjacent to the Orange River, would be greater than 10 square meters.</p>

Please note that any authorisation that may result from this application will only cover activities specifically applied for.

2.2 A project schedule, indicating the different phases and timelines of the project, must be attached to this application form.

Please refer to **Annexure B** for the Project Schedule

### **3. OTHER AUTHORISATIONS REQUIRED**

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

- |  |            |
|--|------------|
| 3.1.1 National Environmental Management: Waste Act           | <b>No</b>  |
| 3.1.2 National Environmental Management: Air Quality Act     | <b>No</b>  |
| 3.1.3 National Environmental Management: Protected Areas Act | <b>No</b>  |
| 3.1.4 National Environmental Management: Biodiversity Act    | <b>Yes</b> |
| 3.1.5 Mineral Petroleum Development Resources Act            | <b>No</b>  |
| 3.1.6 National Water Act                                     | <b>Yes</b> |
| 3.1.7 National Heritage Resources Act                        | <b>Yes</b> |
| 3.1.8 Other (please specify)                                 | <b>No</b>  |
| 3.2 Have such applications been lodged already?              | <b>No</b>  |

## 1 4. DECLARATIONS

### 4.1 The Applicant

I, JCD THERON that I -

- am, or represent<sup>1</sup>, 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 practitioner<sup>2</sup>;
- will provide the environmental assessment practitioner and the competent authority with access to all information at my disposal that is relevant to the application;
- will be responsible for the costs incurred in complying with the Environmental Impact Assessment Regulations, 2010, including but not limited to –
  - costs incurred in connection with the appointment of the environmental assessment practitioner or any person contracted by the environmental assessment practitioner;
  - costs incurred in respect of the undertaking of any process required in terms of the Regulations;
  - costs in respect of any fee prescribed by the Minister or MEC in respect of the Regulations;
  - costs in respect of specialist reviews, if the competent authority decides to recover costs; and
  - the provision of security to ensure compliance with conditions attached to an environmental authorisation, should it be required by the competent authority;
- will ensure that the environmental assessment practitioner is competent to comply with the requirements of these Regulations and will take reasonable steps to verify whether the EAP complies with the Regulations;
- will inform all registered interested and affected parties of any suspension of the application as well as of any decisions taken by the competent authority in this regard;
- am responsible for complying with the conditions of any environmental authorisation issued by the competent authority;
- hereby indemnify the Government of the Republic, the competent authority and all its officers, agents and employees, from any liability arising out of the content of any report, any procedure or any action which the applicant or environmental assessment practitioner is responsible for in terms of these Regulations;
- will not hold the competent authority responsible for any costs that may be incurred by the applicant in proceeding with an activity prior to obtaining an environmental authorisation or prior to an appeal being decided in terms of these Regulations;
- will perform all other obligations as expected from an applicant in terms of the Regulations;
- all the particulars furnished by me in this form are true and correct; and
- I realise that a false declaration is an offence in terms of regulation 71 and is punishable in terms of section 24F of the Act.

  
Signature of the applicant<sup>3</sup>/ Signature on behalf of the applicant:

BOEGEBERG HYDRO ELECTRIC POWER (PTY) LIMITED  
Name of company (if applicable):

10<sup>th</sup> JUNE 2013  
Date:

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

<sup>2</sup> 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.

<sup>3</sup> 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.

4.2 The Environmental Assessment Practitioner

I, Diane Erasmus of Aurecon South Africa (Pty) Ltd, declare that –

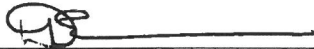
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General declaration:

- I act as the independent environmental practitioner in this application
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting environmental impact assessments, including knowledge of the Act, regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, regulations and all other applicable legislation;
- I will take into account, to the extent possible, the matters listed in regulation 8 of the regulations when preparing the application and any report relating to the application;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- I will ensure that information containing all relevant facts in respect of the application is distributed or made available to interested and affected parties and the public and that participation by interested and affected parties is facilitated in such a manner that all interested and affected parties will be provided with a reasonable opportunity to participate and to provide comments on documents that are produced to support the application;
- I will ensure that the comments of all interested and affected parties are considered and recorded in reports that are submitted to the competent authority in respect of the application, provided that comments that are made by interested and affected parties in respect of a final report that will be submitted to the competent authority may be attached to the report without further amendment to the report;
- I will keep a register of all interested and affected parties that participated in a public participation process; and
- I will provide the competent authority with access to all information at my disposal regarding the application, whether such information is favourable to the applicant or not
- all the particulars furnished by me in this form are true and correct;
- will perform all other obligations as expected from an environmental assessment practitioner in terms of the Regulations; and
- I realise that a false declaration is an offence in terms of regulation 71 and is punishable in terms of section 24F of the Act.

**Disclosure of Vested Interest (delete whichever is not applicable)**

- I do not have and will not have any vested interest (either business, financial, personal or other) in the proposed activity proceeding other than remuneration for work performed in terms of the Environmental Impact Assessment Regulations, 2010;



Signature of the environmental assessment practitioner:

**Aurecon South Africa (Pty) Ltd**

Name of company:

4 JUNE 2013

Date:

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# **ANNEXURE A**

## **Landowner Details and Notifications**

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<b>Landowner:</b>	Susara Geldenhuis
Contact person:	Susara Geldenhuis
Telephone:	0836083311
E-mail:	rugbreek@gmail.com
Farm	2/306 & 3/306
SG 21 code	C03100000000030600002
SG 21 code	C03100000000030600003
Postal Address	

<b>Landowner:</b>	Republic of South
Contact person:	Title Deed: T64217/2011
Telephone:	
E-mail:	
Farm	RE/306; 1/306 & 2/306
SG 21 code	C03100000000030600001
Postal Address	

<b>Landowner:</b>	HENDRIK JOHANNES LOUIS HANEKOM
Contact person:	Hendrik Johannes Louis Hanekom
Telephone:	082 421 2115
E-mail:	
Farm	2/9 & 3/9
SG 21 code	C0600000000000900002
SG 21 code	C0600000000000900003
Postal Address	

<b>Landowner:</b>	DIRK JACOBUS FRANCOIS HANEKOM-TRUSTEES
Contact person:	Dirk Jacobus Francois Hanekom
Telephone:	082 421 2115
E-mail:	
Farm	RE/9 & 5/9
SG 21 code	C0600000000000900000
SG 21 code	C0600000000000900005
Postal Address	

<b>Landowner:</b>	DIRK JACOBUS FRANCOIS GREEFF
Contact person:	Gert Greeff
Telephone:	082 690 4949
E-mail:	gertgreeff@yahoo.com
Farm	1/9
SG 21 code	C0600000000000900001
Postal Address	

<b>Landowner:</b>	HENDRIK JOHANNES LOUIS HANEKOM
Contact person:	Hendrik Johannes Louis Hanekom
Telephone:	082 421 2115
E-mail:	
Farm	1/10 & 12/10
SG 21 code	C0600000000001000001
SG 21 code	C0600000000001000012
Postal Address	

<b>Landowner:</b>	JOHNNIE SMIT FAMILIETRUST
Contact person:	Johnnie Smit
Telephone:	084 406 3375
E-mail:	johnniesmit@yahoo.com
Farm	RE/ 10 & 6/10
SG 21 code	C06000000000001000000
	C06000000000001000006
Postal Address	
<b>Landowner:</b>	BLAAUWPUTS TRUST
Contact person:	Kobus Maree
Telephone:	0722421265
E-mail:	
Farm	4/10
SG 21 code	C06000000000001000004
Postal Address	
<b>Landowner:</b>	WILKOT BOERDERY PTY LTD
Contact person:	Mattheus Maree
Telephone:	082 948 2791
E-mail:	wilkotb@gmail.com
Farm	2/11
SG 21 code	C06000000000001100002
Postal Address	
<b>Landowner:</b>	B J GROENEWALD FAMILIETRUST
Contact person:	Christo & Bernie
Telephone:	082 948 2394 & 082 948 2395
E-mail:	groenweide@gmail.com
Farm	5/11
SG 21 code	C06000000000001100005
Postal Address	

**Cape Town**  
1 Century City Drive  
Waterford Precinct  
Century City  
7441

**T** +27 21 526 9400  
**F** +27 21 526 9500  
**E** capetown@aurecongroup.com  
**W** aurecongroup.com

**aurecon**

PO Box 494  
Cape Town  
8000  
Docex: DX 204

12 June 2013

Email: [simon.clark@aurecongroup.com](mailto:simon.clark@aurecongroup.com)

**PROPOSED HYDROPOWER STATION AND ASSOCIATED INFRASTRUCTURE AT  
BOEGOEBERG DAM ON THE ORANGE RIVER, NEAR GROBLERSHOOP, NORTHERN CAPE.**

**LANDOWNER NOTIFICATION OF ENVIRONMENTAL IMPACT ASSESSMENT PROCESS IN  
TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, NO. 107 OF 1998**

Dear sir/madam

The purpose of this letter is to notify you, as the landowner/manager/occupant about the above-mentioned project.

*Proposed project*

Hydro 9 SA (Pty) Ltd (Hydro 9 SA) wishes to construct a hydropower station of approximately 10 Megawatts (MW) at Boegoeberg Dam on the Orange River which is situated on the farm Zeekoebaart, approximately 26km south east of Groblershoop. The proposed 132 kV overhead transmission line would connect to Eskom's Fibre substation ~34km south of the hydropower station.

Run-of-river hydropower stations, such as proposed, use the natural flow and drop in the river levels to produce electricity. A portion of the river's flow is channelled through the hydropower station where the water is then passed through turbines. The spinning of the turbines generate electricity. This is the same principle as a coal-fired power station that creates steam to turn turbines, as well as wind turbines that are turned by wind.

Hydro 9 SA intends to apply to the Department of Environmental Affairs and Development Planning (DEA&DP) for Environmental Authorisation to undertake certain activities associated with construction of the abovementioned hydropower station. This Application will be made by Aurecon SA (PTY) Ltd. on behalf of the Hydro 9 SA in terms of Regulations pursuant to the National Environmental Management Act, No. 107 of 1998 (NEMA) for activities listed in GN.R 544 and GN.R 546.

Should you have any comments or queries, or should you wish to register as an Interested and Affected Party at this stage in the process, please do not hesitate to contact the Aurecon

**Aurecon South Africa (Pty) Ltd** Reg No 1977/003711/07  
**Board of Directors**  
BMH Tsita (Chairperson), PC Bliersch, MG Diliza,  
ZB Ebrahim, AB Geldenhuys, NN Gwagwa, SA le Roux,  
PC Lombard, AW Möhr, GT Rohde  
(01/2013)

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Member of CESA and ASAQS  
Silver Founding Member of the  
Green Building Council of  
South Africa

\*Under licence from Aurecon Group Brand (Pte) Ltd Reg no 200903592H

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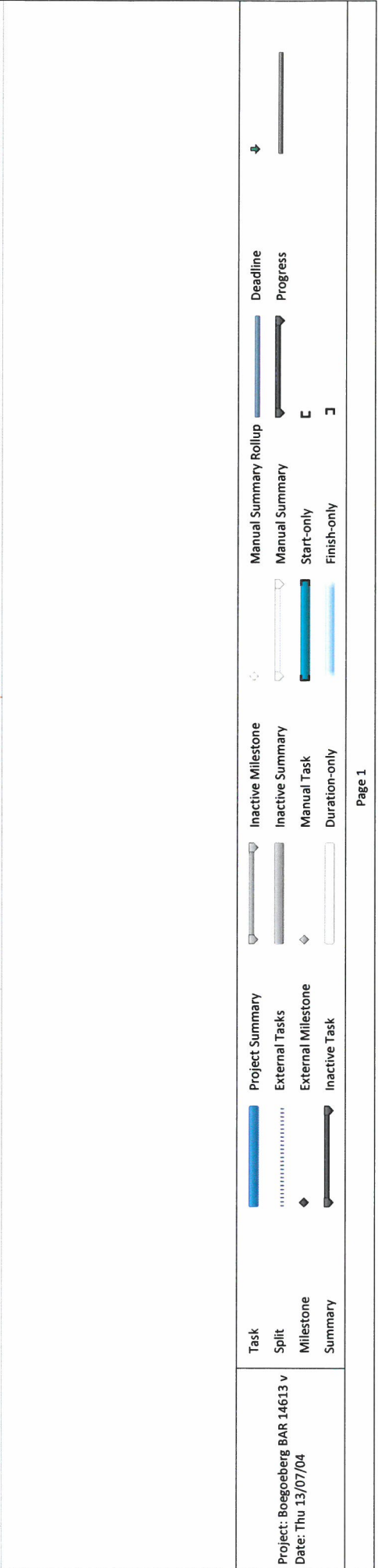
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## **ANNEXURE B**

### **Project Schedule**

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ID	Task Name	Duration	Start	Finish
1	<BA process>	236 days	Thu 13/06/13	Mon 14/05/14
2	Initiation	22 days	Thu 13/06/13	Mon 13/07/13
3	Client meeting	1 day	Thu 13/06/13	Thu 13/06/13
4	Submit Applications	7 days	Fri 13/06/14	Tue 13/06/25
5	Receive DEA Ref. No.	14 days	Wed 13/06/26	Mon 13/07/15
6	BAR Process	126 days	Tue 13/07/16	Thu 14/01/09
7	Compile the Draft Basic Assessment Report (BAR)	30 days	Tue 13/07/16	Tue 13/08/27
8	Client review of Draft BAR	3 days	Wed 13/08/28	Fri 13/08/30
9	Incorporate client comments, print & courier	5 days	Mon 13/09/02	Fri 13/09/06
10	Notify I&APs of the availability of the draft BAR & EMP	1 day	Mon 13/09/09	Mon 13/09/09
11	Commenting period of 40 days for I&APs and State	40 days	Tue 13/09/10	Tue 13/11/05
12	Consider the comments received and complete the final BAR (including the final draft of the EMP).	14 days	Wed 13/11/06	Mon 13/11/25
13	Client review of Final BAR	3 days	Tue 13/11/26	Thu 13/11/28
14	Incorporate client comments, print & courier	5 days	Fri 13/11/29	Thu 13/12/05
15	Make the final BAR (including the final draft of the EMP) available to the registered I&APs for a 21-day commenting period	21 days	Mon 13/12/09	Mon 14/01/06
16	Submit the BAR together with any comments received on the final BAR to the Department	3 days	Tue 14/01/07	Thu 14/01/09
17	Decision-making period	88 days	Fri 14/01/10	Mon 14/05/14
18	Authority review period	76 days	Fri 14/01/10	Thu 14/04/24
19	Notify I&APs of Environmental Decision	12 days	Fri 14/04/25	Mon 14/05/12



Project: Boegoeborg BAR 14613 v  
Date: Thu 13/07/04

Task	Project Summary	Inactive Milestone	Manual Summary Rollup	Deadline
Split	External Tasks	Inactive Summary	Manual Summary	Progress
Milestone	External Milestone	Manual Task	Start-only	
Summary	Inactive Task	Duration-only	Finish-only	



# environmental affairs

Department:  
Environmental Affairs  
REPUBLIC OF SOUTH AFRICA

Private Bag X 447 · PRETORIA · 0001 · Fedsure Building · 315 Pretorius Street · PRETORIA  
Tel (+ 27 12) 310 3911 · Fax (+ 2712) 322 2682

DEA Reference: 14/12/16/3/3/2/568

Enquiries: Mmatlala Rabothata

Tel: 012 395 1768 Fax: 012 320 7539 E-mail: [mrabothata@environment.gov.za](mailto:mrabothata@environment.gov.za)

Mr Simon Clark  
Aurecon South Africa (Pty) Ltd  
PO Box 494  
CAPE TOWN  
8000

Fax: 021 526 9500

Tel: 021 526 9400

PER FACSIMILE / MAIL

Dear Mr Clark

No.:		File:		
Date: 15/07/2013				
To	Seen	Act	Cl	
EU/ Dit.	Initial			
	SC			

## ACKNOWLEDGEMENT OF RECEIPT AND ACCEPTANCE OF NEW APPLICATION FOR ENVIRONMENTAL AUTHORISATION (SCOPING/EIA PROCESS) FOR THE PROPOSED HYDROPOWER STATION AND ASSOCIATED INFRASTRUCTURE AT BOEGOEBERG DAM ON THE ORANGE RIVER, NEAR GROBLERSHOOP, NORTHERN CAPE PROVINCE

The Department confirms having received the application form, details of EAP and Declaration of interest, landowner notification and project schedule submitted by you on 18 June 2013 and the amended application (amending the listed activities) on 5 July 2013 for environmental authorisation for the abovementioned project. You have submitted these documents to comply with the Environmental Impact Assessment Regulations, 2010. The Application is accepted.

Please note that the Basic Assessment process reference number was erroneously assigned to your application. The reference number has been changed from **14/12/16/3/3/1/951** to **14/12/16/3/3/2/568**.

In addition, please consider the following during compilation of reports for this application for environmental authorisation:

- All applicable Departmental Guidelines must be considered throughout the application process. These can be downloaded from the Department's website: [www.environment.gov.za](http://www.environment.gov.za), Environmental Impact Management button, listed under "EIA Administration": Integrated Environmental Management Information Series link. These include, but are not limited to, the following topics: Scoping, Environmental Impact Reporting, Stakeholder Engagement, Specialist Studies, Impact Significance, Cumulative Effects Assessments, Alternatives in EIA and Environmental Management Plans.
- Please be advised that in terms of the EIA Regulations and NEMA the investigation of alternatives is mandatory. Alternatives must therefore be identified, investigated to determine if they are feasible and reasonable. It is also mandatory to investigate and assess the option of not proceeding with the proposed activity (the "no-go" option).

- Should water, solid waste removal, effluent discharge, stormwater management and electricity services be provided by the municipality, you are requested to provide this office with written proof that the municipality has sufficient capacity to provide the necessary services to the proposed development. Confirmation of the availability of services from the service providers must be provided together with the reports to be submitted.
- In the reports to be submitted it must clearly be demonstrated in which way the proposed development will meet the requirements of sustainable development. You must also consider energy efficient technologies and water saving devices and technologies for the proposed development. This could include measures such as the recycling of waste, the use of low voltage or compact fluorescent lights instead of incandescent globes, maximising the use of solar heating, the use of dual flush toilets and low-flow shower heads and taps, the management of storm water, the capture and use of rainwater from gutters and roofs, the use of locally indigenous vegetation during landscaping and the training of staff to implement good housekeeping techniques.
- A detailed and complete EMPr must be submitted with the EIR. This EMPr must not provide recommendations but must indicate actual remediation activities which will be binding on the applicant. Without this EMPr the documents will be regarded as not meeting the requirements and will be returned to the applicant for correction.
- The applicant/EAP is required to inform this Department in writing upon submission of any draft report, of the contact details of the relevant State Departments (that administer laws relating to a matter affecting the environment) to whom copies of the draft report were submitted for comment. Upon receipt of this confirmation, this Department will in accordance with Section 24O(2) & (3) of the National Environmental Management Act, 1998 (Act 107 of 1998) inform the relevant State Departments of the commencement date of the 40 day commenting period, or 60 days in the case of the Department of Water Affairs for waste management activities which also require a licence in terms of the National Water Act, 1998 (Act 36 of 1998).
- Should it be necessary to apply for a permit in terms of the National Heritage Resources Act, 1999 (Act 25 of 1999), please submit the necessary application to SAHRA or the relevant provincial heritage agency and submit proof thereof with the Environmental Impact Assessment Report. The relevant heritage agency should also be involved during the public participation process and have the opportunity to comment on all the reports to be submitted to this Department.

You are required to submit the final site layout plan together with the Final EIR to the Department. All available biodiversity information must be used in the finalisation of the layout plan.

The Environmental Management Programme (EMPr) submitted as part of the application for environmental authorisation must include the following:

- All recommendations and mitigation measures to be recorded in the Final EIR.
- 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.
- An open space management plan to be implemented during the construction and operation of the facility.
- A re-vegetation and habitat rehabilitation plan to be implemented during the construction and operation of the facility including timeframes for restoration which must indicate rehabilitation within the shortest possible time 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.

- 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.
- 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.
- 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.
- 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.
- 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.
- An environmental sensitivity map indicating environmental sensitive areas and features identified during the EIA process.
- 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.

You are requested to submit two (2) electronic copies (the main report must be separated from the Appendices (each appendix saved separately) (CD/DVD) and two (2) hard copies of both the Draft and Final Report to the Department. The hard copies must be double-sided printed; double-punched and must be bound using a lever arch file (two or four holes).

The EAP must, in order to give effect to regulation 56 (2), before submitting the Environmental Impact Assessment Report to the Department give registered interested and affected parties access to, and an opportunity to comment on the report in writing.

In terms of regulation 67 of the EIA Regulations, 2010 this application will lapse if the applicant (or the EAP on behalf of the applicant) fails to comply with a requirement in terms of the Regulations for a period of six months after having submitted the application, unless the reasons for failure have been communicated to and accepted by this Department.



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 Mark Gordon

Chief Director: Integrated Environmental Authorisation  
Department of Environmental Affairs

Letter signed by: Ms Mmatlala Rabothata

Designation: Environmental Officer: Integrated Environmental Authorisations

Date: 12/07/13

CC:	Mr Niel Theron	Hydro 9 SA (Pty) Ltd	Fax: 086 635 6809
	Ms Anga Yaphi	NC DEANC	Fax: 054 331 1155
	The Municipal Manager	!Kheis Local Municipality	Fax: 054 833 9509



# environmental affairs

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Environmental Affairs  
REPUBLIC OF SOUTH AFRICA

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Tel (+ 27 12) 310 3911 · Fax (+ 2712) 322 2682

DEA Reference: 14/12/16/3/3/568

Enquiries: Herman Alberts

Tel: 012 310 3427 Fax: 012 320 7539 E-mail: HAlberts@environment.gov.za

Mr Simon Clark  
AURECON (Pty) Ltd  
PO Box 494  
CAPE TOWN  
8000

Fax: 021 526 9500  
Tel: 021 526 9400

PER FACSIMILE / MAIL

Dear Mr Clark

**ACKNOWLEDGEMENT OF RECEIPT OF FINAL SCOPING REPORT FOR THE PROPOSED HYDRO POWER STATION AND ASSOCIATED INFRASTRUCTURE AT BOEGOEBERG DAM ON THE ORANGE RIVER, NEAR GROBLERSHOOP, THE NORTHERN CAPE PROVINCE**

The Department confirms having received the final Scoping Report dated 12 September 2013 for the above-mentioned project on 12 September 2013.

You are hereby reminded that the activity may not commence prior to an environmental authorisation being granted by the Department.

Yours sincerely

Mr Ishaam Abader  
Deputy Director-General: Legal, Authorizations Compliance and Enforcement  
Department of Environmental Affairs  
Letter signed by: Mr Herman Alberts  
Designation: Environmental Officer: Integrated Environmental Authorisations  
Date: 26/09/2013

No.:	File:		
Date:	27/09/2013		
To	Seen	Act	Ct
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	SC		



## environmental affairs

Department:  
Environmental Affairs  
REPUBLIC OF SOUTH AFRICA

Private Bag X 447 · PRETORIA · 0001 · Federe Building · 315 Pretorius Street · PRETORIA  
Tel (+ 27 12) 310 3911 · Fax (+ 2712) 322 2682

NEAS Reference: DEA/EIA/0001942/2013 and DEA/EIA/0002030/2013

DEA Reference: 14/12/16/3/3/2/568

Enquiries: Thabile Sangweni

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

Ms Diane Erasmus  
Aurecon South Africa (Pty) Ltd  
Aurecon Centre  
1 Century City Drive  
Waterford Precinct  
CENTURY CITY  
7441

Fax Number: (044) 805 5454

### **PER FACSIMILE / MAIL**

Dear Ms Erasmus

### **ACCEPTANCE OF THE FINAL SCOPING REPORT FOR THE PROPOSED HYDROPOWER STATION AND ITS ASSOCIATED INFRASTRUCTURE AT BOEGOEBERG DAM ON THE ORANGE RIVER NEAR GLOBLERSHOOP, !KHEIS AND SIYATHEMBA LOCAL MUNICIPALITIES, NORTHERN CAPE PROVINCE**

The Final Scoping Report (FSR) and Plan of Study for Environmental Impact Assessment (PoSEIA) dated September 2013 and received by this Department on 12 September 2013 refer.

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

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

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

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

Affairs (DWA), the Department of Energy, the South African National Roads Agency Limited (SANRAL), the South African Heritage Resources Agency (SAHRA), water and irrigation bodies, farmers unions 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](mailto:atiplady@ska.ac.za).

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

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

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

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

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

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

- i. The Environmental Impact Assessment report must provide an assessment of the impacts and mitigation measures for each of the listed activities applied for.
- ii. Written comment from the provincial Department of Environmental Affairs indicating that the activities applied for under GNR 546 applies. In addition, a graphical representation of the proposed development within the respective geographical areas must be provided.
- iii. 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.
- iv. The total footprint of the proposed development should be indicated. Exact locations of the power lines and associated infrastructure should be mapped at an appropriate scale.
- v. Should a Water Use License be required, proof of application for a license needs to be submitted.
- vi. 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.
- vii. A copy of the final site layout map. All available biodiversity information must be used in the finalisation of the layout map. Existing infrastructure must be used as far as possible e.g. roads. The layout map must indicate the following:
  - Foundation footprint;
  - Permanent laydown area footprint;
  - Construction period laydown footprint;

- Internal roads indicating width (construction period width and operation period width) and with numbered sections between the other site elements which they serve (to make commenting on sections possible);
  - Wetlands, drainage lines, rivers, stream and water crossing of roads and cables indicating the type of bridging structures that will be used;
  - The location of sensitive environmental features on site e.g. CBAs, heritage sites, wetlands, drainage lines etc. that will be affected by the facility and its associated infrastructure;
  - Sub-station(s) and/or transformer(s) sites including their entire footprint;
  - Cable routes and trench dimensions (where they are not along internal roads);
  - Connection routes (including pylon positions) to the distribution/transmission network;
  - Cut and fill areas along roads and at sub-station/transformer sites indicating the expected volume of each cut and fill;
  - Borrow pits;
  - Spoil heaps (temporary for topsoil and subsoil and permanently for excess material);
  - All existing infrastructure on the site, especially roads;
  - Buffer areas;
  - Buildings, including accommodation; and,
  - All "no-go" areas.
- viii. An environmental sensitivity map indicating environmental sensitive areas and features identified during the EIA process.
- ix. A map combining the final layout map superimposed (overlain) on the environmental sensitivity map.
- x. A shapefile of the preferred development layout/footprint must be submitted to this Department. The shapefile must be created using the Hartebeesthoek 94 Datum and the data should be in Decimal Degree Format using the WGS 84 Spheroid. The shapefile must include at a minimum the following extensions i.e. .shp; .shx; .dbf; .prj; and, .xml (Metadata file). If specific symbology was assigned to the file, then the .avl and/or the .lyr file must also be included. Data must be mapped at a scale of 1:10 000 (please specify if an alternative scale was used). The metadata must include a description of the base data used for digitizing. The shapefile must be submitted in a zip file using the EIA application reference number as the title.

The shape file must be submitted to:

**Postal Address:**

Department of Environmental Affairs  
Private Bag X447  
Pretoria  
0001

**Physical address:**

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

For Attention: Mr Muhammad Essop  
Integrated Environmental Authorisations

Strategic Infrastructure Developments

Telephone Number: (012) 395 1734

Fax Number: (012) 320 7539

Email Address: MEssop@environment.gov.za

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

- i. All recommendations and mitigation measures recorded in the EIR and the specialist studies conducted.
- ii. The final site layout map.
- iii. Measures as dictated by the final site layout map and micro-siting.
- iv. An environmental sensitivity map indicating environmental sensitive areas and features identified during the EIA process.
- v. A map combining the final layout map superimposed (overlain) on the environmental sensitivity map.
- vi. An alien invasive management plan to be implemented during construction and operation of the facility. The plan must include mitigation measures to reduce the invasion of alien species and ensure that the continuous monitoring and removal of alien species is undertaken.
- vii. A plant rescue and protection plan which allows for the maximum transplant of conservation important species from areas to be transformed. This plan must be compiled by a vegetation specialist familiar with the site and be implemented prior to commencement of the construction phase.
- viii. A re-vegetation and habitat rehabilitation plan to be implemented during the construction and operation of the facility. Restoration must be undertaken as soon as possible after completion of construction activities to reduce the amount of habitat converted at any one time and to speed up the recovery to natural habitats.
- ix. An open space management plan to be implemented during the construction and operation of the facility.
- x. A traffic management plan for the site access roads to ensure that no hazards would result from the increased truck traffic and that traffic flow would not be adversely impacted. This plan must include measures to minimize impacts on local commuters e.g. limiting construction vehicles travelling on public roadways during the morning and late afternoon commute time and avoid using roads through densely populated built-up areas so as not to disturb existing retail and commercial operations.
- xi. A transportation plan for the transport of the components, main assembly cranes and other large pieces of equipment
- xii. A storm water management plan to be implemented during the construction and operation of the facility. The plan must ensure compliance with applicable regulations and prevent off-site migration of contaminated storm water or increased soil erosion. The plan must include the construction of appropriate design measures that allow surface and subsurface movement of water along drainage lines so as not to impede natural surface and subsurface flows. Drainage measures must promote the dissipation of storm water run-off.
- xiii. An erosion management plan for monitoring and rehabilitating erosion events associated with the facility. Appropriate erosion mitigation must form part of this plan to prevent and reduce the risk of any potential erosion.
- xiv. An effective monitoring system to detect any leakage or spillage of all hazardous substances during their transportation, handling, use and storage. This must include precautionary measures to limit the possibility of oil and other toxic liquids from entering the soil or storm water systems.
- xv. Measures to protect hydrological features such as streams, rivers, pans, wetlands, dams and their catchments, and other environmental sensitive areas from construction impacts including the direct or indirect spillage of pollutants.

The EIR must include a **cumulative assessment** of the facility if there are other similar facilities in the region. The specialist studies e.g. biodiversity, visual, noise etc. must also assess the facility in terms of potential cumulative impacts.

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

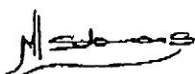
The applicant is hereby reminded to comply with the requirements of Regulation 67 with regard to the time period allowed for complying with the requirements of the Regulations, and Regulations 56 and 57 with regard to the allowance of a comment period for interested and affected parties on all reports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

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

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

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

Yours faithfully



**Mr Ishaam Abader**

**Deputy Director-General: Legal, Authorisations, Compliance and Enforcement**  
**Department of Environmental Affairs**

**Letter signed by: Ms Milicent Solomons**

**Designation: Director: Integrated Environmental Authorisations**

**Date: 17/10/2013.**

cc:	Ms Anga Yaphi	Northern Cape Department of Environmental Affairs and Nature Conservation	Tel: 054 332 2885	Fax: 054 331 1155
	The Municipal Manager	IKheis Local Municipality	Tel: 054 833 9500	Fax: 054 833 9509
	The Municipal Manager	Siyathemba Local Municipality	Tel: 054 871 5500	Fax: 054 871 5500



## environmental affairs

Department:  
Environmental Affairs  
REPUBLIC OF SOUTH AFRICA

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Tel (+ 27 12) 310 3911 · Fax (+ 2712) 322 2682

**DEA Reference:** 14/12/16/3/3/2/568

**Enquiries:** Salome Mambane

**Tel:** 012 395 1823 **Fax:** 012 320 7539 **E-mail:** SMambane@environment.gov.za

Mr Simon Clark  
Aurecon  
PO Box 494  
**CAPE TOWN**  
8000

**Fax:** 021 526 9400

**Tel:** 021 526 9500

### **PER FACSIMILE / MAIL**

Dear Mr Clark

### **ACKNOWLEDGEMENT OF RECEIPT OF DRAFT ENVIRONMENTAL IMPACT ASSESSMENT REPORT FOR THE PROPOSED HYDROEPOWER STATION AND ASSOCIATED INFRASTRUCTURE AT BOEGOEBERG DAM ON THE ORANGE RIVER, NEAR GROBLERSHOP, NORTHERN CAPE**

The Department confirms having received the draft Environmental Impact Assessment Report dated 02 December 2013 for the above-mentioned project on 03 December 2013.

You are hereby reminded that the activity may not commence prior to an environmental authorisation being granted by the Department.

Yours sincerely

**Mr Ishaam Abader**

**Deputy Director-General: Legal Authorisation Compliance and Enforcement**

**Department of Environmental Affairs**

**Letter signed by: Mr Herman Alberts**

**Designation: Environmental Officer: Integrated Environmental Authorisations**

**Date:** 14/01/2014