

**From:** [Seshni Govender](#)  
**Cc:**  
**Bcc:**

**Subject:** The Development of two 9.9MW ICEs associated with the Project DAO PV Facility on the Remaining Extent of the Farm Bokpoort 390, !Kheis Local Municipality  
**Date:** Friday, 05 November 2021 15:55:00  
**Attachments:** [MD4195-RHD-ZZ-XX-CO-Z-0001-Additional ICE Initial Notification\\_F01.pdf](#)  
**Importance:** High



Dear Stakeholder

Notice is hereby given in terms of the Environmental Impact Assessment (EIA) Regulations, 2014 (as amended in 2021) published in Government Notice Regulation (GNR) 324 - GNR 327, in terms of Section 24(5) of the National Environmental Management Act - NEMA (Act No. 107 of 1998) (as amended) of the initiative by being undertaken by ACWA Power Project DAO (RF) Pty Ltd to develop two individual 9.9MW Internal Combustion Engines (ICE) associated with the Project DAO PV Plant on the Remaining Extent of the Farm Bokpoort 390 near Groblershoop.

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Regards

**Seshni Govender** (*Pr. Sci. Nat.*)  
**Environmental Consultant**

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Building No. 5 Country Club Estate, 21 Woodlands Drive, Woodmead, 2191  
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Interested and Affected Parties

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Date:	05 November 2021	Contact name:	Seshni Govender
Your reference:		Telephone:	087 352 1592
Our reference:	MD4195-RHD-ZZ-XX-CO-Z-0001	Email:	seshni.govender@rhdhv.com
Classification:	Project related		

**THE DEVELOPMENT OF TWO 9.9MW INTERNAL COMBUSTION ENGINES ASSOCIATED WITH THE PROJECT DAO PHOTOVOLTAIC (PV) PLANT ON THE REMAINING EXTENT OF THE FARM BOKPOORT 390 NEAR GROBLERSHOOP WITHIN THE !KHEIS LOCAL MUNICIPALITY IN THE NORTHERN CAPE PROVINCE**

Dear Interested & Affected Party

ACWA Power Project DAO (RF) Pty Ltd (hereafter referred to as ACWA Power) is proposing to develop two individual 9.9MW Internal Combustion Engines (ICE) associated with the Project DAO PV Plant on the Remaining Extent of the Farm Bokpoort 390 near Groblershoop.

**Project Description**

In May 2021, ACWA Power was issued with seven Environmental Authorisations (EAs) for the development of seven individual 9.9MW Internal Combustion Engines (ICE) on the authorised Pedi, Venda, Zulu, Afrikaans, Ndebele, Swati and Sotho Photovoltaic (PV) Plants on the Remaining Extent (RE) of the Farm Bokpoort 390, located 20km north west of the town of Groblershoop within the !Kheis Local Municipality in the ZF Mgcawu District Municipality, Northern Cape Province.

The EAs issued per PV plant were as follows:

- Zulu ICE (Ref 14/12/16/3/3/1/2295);
- Venda ICE ((Ref 14/12/16/3/3/1/2296);
- Swati ICE ((Ref 14/12/16/3/3/1/2297);
- Sotho ICE (Ref 14/12/16/3/3/1/2298);
- Pedi ICE (Ref 14/12/16/3/3/1/2299);
- Ndebele ICE (Ref 14/12/16/3/3/1/2300); and
- Afrikaans ICE (Ref 14/12/16/3/3/1/2301).

PV can only generate electricity when the weather is favourable. In order to address this need, ACWA Power proposed additional infrastructure ICE within their authorised plants to create flexibility and efficiency within the plants which will enable electricity generation during unfavourable weather conditions.



In September 2020, the Department of Mineral Resources and Energy released a request for proposal as part of the Risk Mitigation Independent Power Producer Procurement Programme to reduce the current load shedding periods being experienced by the country. In responding to the request, ACWA Power submitted a bid for a 150MW (export capacity) PV plant that was bid as “Project DAO” and were successful. A condition in the Request For Proposal required Bidders to not tap into the national grid for power and requires that a reliability test be undertaken at a specified generation rate and time.

However, the DMRE informed bidders that these requirements would be relaxed, and ACWA Power decided to lapse four of the seven ICE EAs, the four EAs that have been lapsed are Zulu, Afrikaans, Sotho, and Swati PV Plant ICE. The DMRE has now confirmed that they are not relaxing the reliability run requirements, and as such, ACWA Power now needs two (2) additional ICE infrastructure to meet these requirements.

The specifications of each of the ICE are provided below:

- Generating capacity: 9.9 MW
- Fuel Type: Diesel or LPG/ NG
- Stack height: 5 - 30 m
- Number of engines for each plot: 2 - 15 (it is subject to the engine size, various load size available in the market)
- Fuel storage tanks for each plot: 6 - 30 (it is subject to the tanks sizing/designing)
- Fuel volume for each plot: 500 m<sup>3</sup>
- Water requirements: limited water for cooling
- Area size: 2 ha

Refer to Figure 1 for the locality map showing the proposed infrastructure.

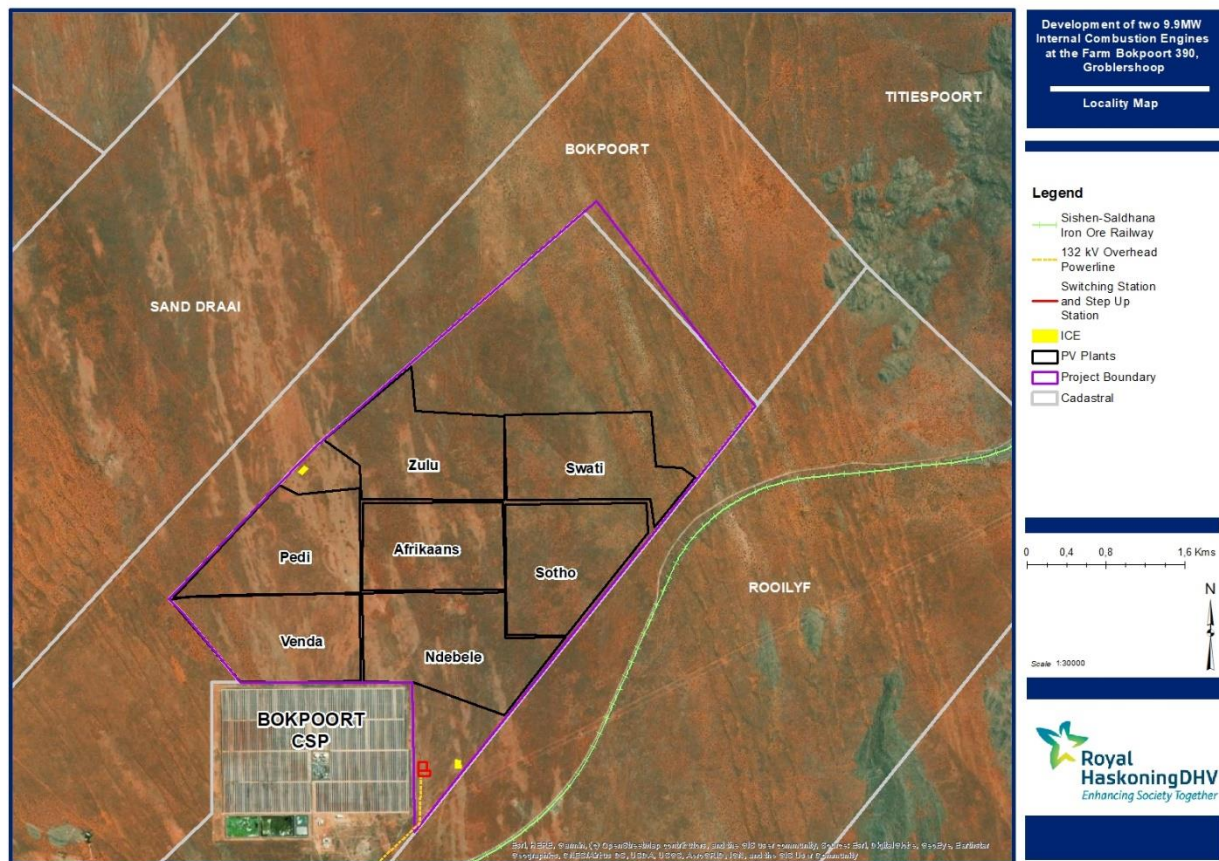


Figure 1: Locality map of proposed additional ICEs

### **What are the Potential Environmental Impacts associated with the Proposed Project?**

A number of potential environmental impacts associated with the project have been identified. Various specialist assessments have been conducted for the previous applications for EAs i.e. Seven (7) ICE developments and will be revised and updated based on additional new infrastructure. The following specialist studies have been undertaken or updated: Agriculture, Biodiversity, Heritage, Palaeontology, Noise, Air Quality and Visual.

### **Why are Environmental Studies Needed?**

In terms of the Environmental Impact Assessment (EIA) Regulations Government Notice Regulation (GNR) 324 – 327, published in terms of Section 24(5), and read with Section 44, of the National Environmental Management Act (NEMA) (Act No. 107 of 1998), ACWA Power requires an Environmental Authorisation for the ICE from the Department of Forestry, Fisheries and the Environment (DFFE) for undertaking the proposed project as it includes activities listed under Listing Notices 1 of the EIA Regulations 2014 (as amended).

Listing Notice	Activity Number	Description and Applicability
1 (GNR 327)	2	The development and related operation of facilities or infrastructure for the generation of electricity from a non-renewable resource where – (ii) the output is 10MW or less but the total extent of the facility covers an area in excess of 1ha.

Listing Notice	Activity Number	Description and Applicability
		<i>Applicable to the development and operation of the ICE with the total generating capacity of 9.9MW to be developed on an area of 4ha (2ha per ICE).</i>
1 (GNR 327)	14	The development and related operation of facilities or infrastructure, for the storage, or for the storage and handling of, a 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>Liquified Natural Gas or Liquified Petroleum Gas or diesel will be stored in 6 - 30 storage tanks with a combined volume of not exceeding 500m<sup>3</sup>.</i>
1 (GNR 327)	27	The clearance of an area of 1ha or more, but less than 20ha of indigenous vegetation, except where such clearance of indigenous vegetation. <i>The construction of the proposed 9.9MW ICE will require the clearance of 4ha (2ha per ICE) of indigenous vegetation.</i>
1 (GNR 327)	28	Residential, mixed, retail, commercial, industrial or institutional developments where such land was used for agriculture on or after 01 April 1998 and where such development will occur outside an urban area, where the total land to be developed is bigger than 1ha. <i>The 9.9MW ICE will entail the development on 4ha (2ha per ICE) of agricultural land. The project site is located outside an urban area.</i>

A Basic Assessment study as contemplated in Regulation 19 and 20 of the EIA Regulations 2014 (as amended), must be followed in order to obtain environmental authorisation.

A BA is an effective planning and decision-making tool, which allows for the identification of potential environmental consequences of a proposed project, and its management through the planning process.

ACWA Power has appointed Royal HaskoningDHV to provide independent Environmental Assessment Practitioner (EAP) services for the proposed project. As part of these environmental studies, all I&APs will be actively involved through a public participation process (PPP).

The PPP entails informing the local authorities, Interested and Affected Parties (I&APs), key stakeholders and landowners about the proposed project.

You can register as an Interested and Affected Party (I&AP) or request additional information by:

- Contacting the public participation consultant directly (contact details provided below), or
- Submitting written comments to Royal HaskoningDHV (*via* post or e-mail).

I&APs are requested to provide their name and surname, contact information and interest in the project to the environmental consultant. Kindly note that I&APs will be notified in due course of the availability of the draft report for public review.

Details of Public Participation Consultant:

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**Seshni Govender**

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Southern Africa

## NOTICE OF APPLICATION FOR ENVIRONMENTAL AUTHORISATIONS

**BASIC ASSESSMENT STUDY FOR THE DEVELOPMENT OF TWO 9.9MW INTERNAL COMBUSTION ENGINES ASSOCIATED WITH THE PROJECT DAO PHOTOVOLTAIC (PV) PLANT ON THE REMAINING EXTENT OF THE FARM BOKPOORT 390 NEAR GROBLERSHOOP WITHIN THE !KHEIS LOCAL MUNICIPALITY IN THE NORTHERN CAPE PROVINCE**

NOVEMBER 2021



**DFFE REFERENCE NUMBERS: TBC**

Notice is hereby given in terms of the Environmental Impact Assessment (EIA) Regulations, 2014 (as amended) published in Government Notice Regulation (GNR) 324 - GNR 327, in terms of Section 24(5) of the National Environmental Management Act - NEMA (Act No. 107 of 1998) (as amended) of the initiative by **ACWA Power Project DAO (RF) Pty Ltd (ACWA Power)**, to apply for environmental authorisations for the proposed development of two individual 9.9MW Internal Combustion Engines (ICE) associated with the Project DAO PV Plant on the remaining extent of the farm Bokpoort 390, !Kheis Local Municipality.

With respect of the above, the Applicant, ACWA Power intends undertaking a **Basic Assessment (BA) study** as contemplated in the EIA Regulations, 2014 (as amended) for the process of applying for authorisations for the above proposed developments to the Competent Authority, the **Department of Forestry, Fisheries and the Environment (DFFE)**.

<b>Name of Applicant</b>	ACWA Power Project DAO (RF) Pty Ltd				
<b>Project Name</b>	BASIC ASSESSMENT PROCESS FOR THE DEVELOPMENT OF TWO 9.9MW INTERNAL COMBUSTION ENGINES ASSOCIATED WITH THE PROJECT DAO PHOTOVOLTAIC (PV) PLANT FACILITY ON THE REMAINING EXTENT OF THE FARM BOKPOORT 390 NEAR GROBLERSHOOP WITHIN THE !KHEIS LOCAL MUNICIPALITY IN THE NORTHERN CAPE PROVINCE				
<b>District and Local Authorities</b>	District: ZF Mgcawu District Municipality                      Local: !Kheis Local Municipality				
<b>Project Nature</b>	The specifications of each ICE are provided below: <ul style="list-style-type: none"> <li>▪ Generating capacity: 9.9MW</li> <li>▪ Fuel type: Diesel or Liquified Petroleum Gas (LPG) or Natural Gas (NG)</li> <li>▪ Stack height: 5 – 30m</li> <li>▪ Number of engines: 2 - 15 (it is subject to the engine size, various load size available in the market)</li> <li>▪ Fuel storage tanks: 6 – 30</li> <li>▪ Total fuel volume: 500m<sup>3</sup></li> <li>▪ Water requirements: limited water for cooling</li> <li>▪ Footprint: 2ha</li> </ul>				
<b>Project Location &amp; Coordinates</b>	<p>The study area is situated approximately 19 km from the Orange River, located 19.55 km north-west of Groblershoop and 13.94 km north-west of the N8. The site is surrounded by vacant and agricultural land. The study area is located in one of the Renewable Energy Development Zones. The coordinates for the ICE per site are included below.</p> <table border="1"> <tbody> <tr> <td>ICE 1</td><td>A: 28°41'59.32"S, 21°59'40.32"E; B: 28°42'0.40"S, 21°59'41.84"E; C: 28°42'2.56"S, 21°59'39.84"E; D: 28°42'1.47"S, 21°59'38.33"E</td></tr> <tr> <td>ICE 2</td><td>A: 28°43'36.42"S, 22° 0'30.01"E; B: 28°43'36.42"S; 22° 0'31.97"E C: 28°43'39.21"S, 22° 0'31.96"E; D: 28°43'39.22"S, 22° 0'30.00"E</td></tr> </tbody> </table>	ICE 1	A: 28°41'59.32"S, 21°59'40.32"E; B: 28°42'0.40"S, 21°59'41.84"E; C: 28°42'2.56"S, 21°59'39.84"E; D: 28°42'1.47"S, 21°59'38.33"E	ICE 2	A: 28°43'36.42"S, 22° 0'30.01"E; B: 28°43'36.42"S; 22° 0'31.97"E C: 28°43'39.21"S, 22° 0'31.96"E; D: 28°43'39.22"S, 22° 0'30.00"E
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<b>Property Details</b>	Remaining Extent of the Farm Bokpoort 390				
<b>Competent Authority</b>	Department of Forestry, Fisheries and the Environment				
<b>Listed Activities</b>	<p>The following listed activities will be applied for:</p> <ul style="list-style-type: none"> <li>▪ Listing Notice 1 - GNR 327: Activity 2, 14, 27 and 28.</li> </ul>				
<b>How to Register</b>	<p>You can register as an Interested and Affected Party (I&amp;AP) or request additional information by:</p> <ul style="list-style-type: none"> <li>▪ Contacting the public participation consultant directly (contact details provided below), or</li> <li>▪ Submitting comments to Royal HaskoningDHV (<i>via</i> post, telephone or e-mail).</li> </ul> <p>I&amp;APs are requested to provide their name and surname, contact information and interest in the project to the environmental consultant. Kindly note that I&amp;APs will be notified in due course of the availability of the draft report for public review.</p>				
<b>Public Participation Consultant</b>	<p>Seshni Govender</p> <p>E-mail   <a href="mailto:seshni.govender@rhdhv.com">seshni.govender@rhdhv.com</a></p> <p>PO Box 867 Gallo Manor 2052</p> <p>Tel           087 352 1592</p>				

## **Appendix E: Proof of Comments**

**From:** [Seshni Govender](#)  
**To:** [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** RE: The Development of two 9.9MW ICEs associated with the Project DAO PV Facility on the Remaining Extent of the Farm Bokpoort 390, !Kheis Local Municipality  
**Date:** Monday, 08 November 2021 09:44:00  
**Attachments:** [Additional ICE.kmz](#)

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Hi John

I will forward the requirements to the applicant, please find attached the KMZ for the additional ICE's as requested.

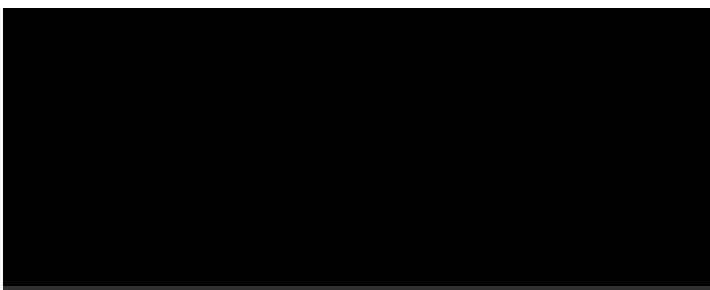
Regards  
Seshni

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**From:** [REDACTED]  
**Sent:** Monday, 08 November 2021 09:34  
**To:** Seshni Govender <[seshni.govender@rhdhv.com](mailto:seshni.govender@rhdhv.com)>  
**Subject:** RE: The Development of two 9.9MW ICEs associated with the Project DAO PV Facility on the Remaining Extent of the Farm Bokpoort 390, !Kheis Local Municipality

Please find attached Eskom general requirements for works at or near Eskom infrastructure and servitudes. Please send me a KMZ file of the proposed development footprints of the ICE's.

Kind regards



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**From:** Seshni Govender <[seshni.govender@rhdhv.com](mailto:seshni.govender@rhdhv.com)>  
**Sent:** Friday, 05 November 2021 15:56  
**Cc:** [REDACTED]  
**Subject:** [CAUTION:EXTERNAL EMAIL] - The Development of two 9.9MW ICEs associated with the Project DAO PV Facility on the Remaining Extent of the Farm Bokpoort 390, !Kheis Local Municipality  
**Importance:** High



Dear Stakeholder

Notice is hereby given in terms of the Environmental Impact Assessment (EIA) Regulations, 2014 (as amended in 2021) published in Government Notice Regulation (GNR) 324 - GNR 327, in terms of Section 24(5) of the National Environmental Management Act - NEMA (Act No. 107 of 1998) (as amended) of the initiative by being undertaken by ACWA Power Project DAO (RF) Pty Ltd to develop two individual 9.9MW Internal Combustion Engines (ICE) associated with the Project DAO PV Plant on the Remaining Extent of the Farm Bokpoort 390 near Groblershoop.



Please find attached initial notification regarding the project.

In accordance with the Protection of Personal Information (POPI) Act, your details will be securely stored and will not be shared with any third parties. If you wish to be removed from this database, please send an email to: [seshni.govender@rhdhv.com](mailto:seshni.govender@rhdhv.com).

Regards

**Seshni Govender (Pr. Sci. Nat.)**  
**Environmental Consultant**

D 087 352 1592 | E [seshni.govender@rhdhv.com](mailto:seshni.govender@rhdhv.com) | W [www.rhdhv.co.za](http://www.rhdhv.co.za)  
**Royal HaskoningDHV (Pty) Ltd trading as Royal HaskoningDHV** | Reg No. 1966/001916/07  
Building No. 5 Country Club Estate, 21 Woodlands Drive, Woodmead, 2191  
PO Box 867, Gallo Manor, 2052, Gauteng, South Africa



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