Appendix C7: Minutes of Meeting



Savannah Environmental (Pty) Ltd | Directors: KM Jodas, J Thomas, M Matsabu Company Reg No.: 2006/000127/07

VAT Reg No.: 4780226736

ENVIRONMENTAL IMPACT ASSESSMENT & PUBLIC PARTICIPATION PROCESSES FOR THE 75MW THERMAL DUEL FUEL FACILITY NEAR KATHU, NORTHERN CAPE PROVINCE

(DEFF Reference No.: 14/12/16/3/3/2/2019)

MEETING NOTES OF FOCUS GROUP MEETING HELD WITH DEPARTMENT OF WATER AND SANITATION HELD ON TUESDAY, 02 MARCH 2021 AT 10H30 **VENUE: MS TEAMS PLATFORM**

Meeting notes prepared by:

Nicolene Venter Savannah Environmental (Pty) Ltd **E-mail:** publicprocess@savannahsa.com

Please note that these notes are not <u>verbatim</u>, but a summary of the comments submitted at the meeting. Please address any comments to Savannah Environmental at the above address

DEVELOPMENT OF 75MW THERMAL DUAL FUEL FACILITY AT THE AUTHORISED HYPERION PV 1 & 2 SOLAR ENERGY FACILITY

MEETING ATTENDEES

Name	Organisation	Position
Shaun Cloete	DWS	Chief Forester: NFA Regulations
Ms Jana de Jager		Environmental Assessment Practitioner
Ms Nicolene Venter	Savannah Environmental	Public Participation and Social
		Consultant

Please refer to **Appendix A** for proof of attendance.

Nicolene Venter introduces herself and requested Jana de Jager and Shaun Cloete to introduce themselves for record purposes.

Nicolene Venter welcomed Ms Shaun Cloete to the on-line platform and as he is the only attendee that he can raised questions after each slide presented and that any additional comments after the meeting can be submitted via e-mail, WhatsApp or SMS to the public participation office.

Jana de Jager provided a summary of the environmental findings as documented in the Environmental Impact Assessment Report currently out for review and comment.

A copy of the slides presented during the virtual meeting is attached as **Appendix B**.

DISCUSSION SESSION

Question / Comment	Response
Shaun Cloete enquired whether this project's	Jana de Jager responded that any abstraction
WULA is covered under the existing WULA.	will be covered under the WULA process which
	is underway although it is undertaken by
	another independent consultant. The issue
	associated with this EIA is the impact that the
	upgrade of the road will have on the
	Vlermuisleegte River. However, the WULA
	should include application for 21 (c&i).
Shaun Cloete asked whether there will be any	Jana de Jager responded that there will be no
waste facility located on the site.	waste facility on site.
Shaun Cloete asked whether any dams will be	Jana de Jager responded that the water
constructed on the site.	treatment plant will be a closed system with a
	volume less than 10000m³ and does not trigger
	a general authorisation. It was also confirmed
	that there will be no evaporation dams.

Shaun Cloete enquired whether raw water is	Jana de Jager responded that it is covered	
also covered under the WULA.	under the WULA.	
Shaun Cloete informed the project team that	Nicolene Venter thanked Mr Cloete for this	
as instructed from the National Department	information.	
that WULAs is receiving priority attention and		
that a hard copy of reports need to be on		
hand, but all other submissions can be done		
electronically.		
Shaun Cloete informed the project team that	Nicolene Venter thanked Shaun for the	
the lower Vaal CM team will also need to	information and confirmed that the Northern	
comment on the application.	Cape Province's Deputy Director's Office	
	received the notification and request	
	comments from the applicable commenting	
	official.	

CLOSURE

Nicolene Venter thanked Mr Cloete for his valuable inputs into the Environmental Impact Assessment process. The meeting was closed at 11h00.

LIST OF ABBREVIATIONS / ACRONYMS

DWS	Department of Water and	WULA	Water Use Licence Application
	Sanitation		

		APPENDIX A
Full Name	User Action	Timestamp
Nicolene Venter	Joined	3/2/2021, 10:20:39 AM
Jana de Jager	Joined	3/2/2021, 10:28:38 AM
Shaun Clifford cloete	Joined	3/2/2021, 10:43:02 AM

75MW THERMAL DUAL FUEL FACILITY AND ASSOCIATED INFRASTRUCTURE NEAR KATHU

Public Participation Presentation March 2021



ADGENDA

- Welcome and Introduction
- Meeting Conduct
- Introduction and Project Overview
- Environmental Studies & Findings
- Discussion

2

Way Forward

savannah

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CONDUCT OF THE MEETING

- Please stay on mute during the presentation
- Register attendance on Chat [function (name, surname & affiliation)
- ightharpoonup Please raise your hand $\mathop{\oplus}\limits_{}$ to indicate need for clarification for an impact presented
- Questions submitted in Chat function will be responded to after the presentation
- Equal opportunity
- Recording of meeting
- Attendees welcome to switch video on when raising question / submitting comment

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PURPOSE OF THE MEETING

- Provide stakeholders & I&APs with an overview of the 75MW Thermal dual fuel facility and the associated infrastructure
- Summary of the Environmental Impact Assessment (EIA) & Public Participation being undertaken
- > Present summary of key environmental findings as documented in the EIA Report
- Provide stakeholders the opportunity to seek clarity regarding the project and environmental studies
- Obtain and record comments for inclusion in the Final EIA Report to be submitted to the DEFF

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PROJECT BACKGROUND & INFORMATION (Jana de Jager)



PROJECT DESCRIPTION

- The 75MW Thermal Dual Fuel Facility will comprise the following key infrastructure and components and will be undertaken as a separate EIA process:
 - Reciprocating Engines, utilising Liquified Petroleum Gas (LPG) as a fuel source
 - Access road
 - > Truck entrance and parking facility
 - > Regasification plant and fuel preparation plant
 - Dry cooling system for operating oils/chemicals
 - Fuel off-loading facility
 - Fuel storage facility
 - Water demineralisation
 - Raw water and treated water storage tank
 - Oily water separator and storm water drainage system
 - Cabling, O&M building, fencing, warehouses and workshops

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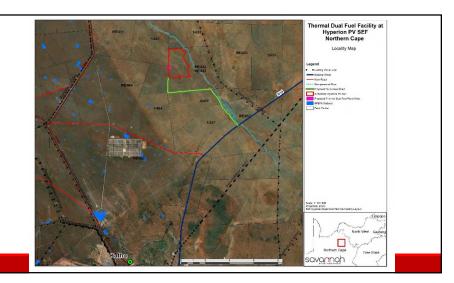
PROJECT OVERVIEW

- Applicant Hyperion Solar Development (Pty) Ltd
- Location The Thermal Dual Fuel Facility and associated infrastructure is to be constructed within the
 project site which comprises the following land titles:
 - Remainder of Farm Lyndoch 432
 - Remainder of the Farm 457, Portion 1 of the Farm 457, and Portion 2 of the Farm 457
- Project proposal development of a 75MW thermal dual fuel facility and upgraded access road
- Need and desirability South Africa is currently experiencing electricity supply challenges, which in turn is leading to periodic periods of load shedding. As part of South Africa's long term energy security planning, as outlined in the Integrated Resource Plan 2019 ("IRP2019"), 2000 to 3000MW of new generation capacity is required from technologies to be determined. The Project site and chosen technology solution is ideally located to meet the IPP Office's objectives. In addition to the introduction of much needed new electricity generation capacity onto the grid, the project will also provide much needed direct investment into the Kathu area and will stimulate additional business in and around the power station in support of its operations.

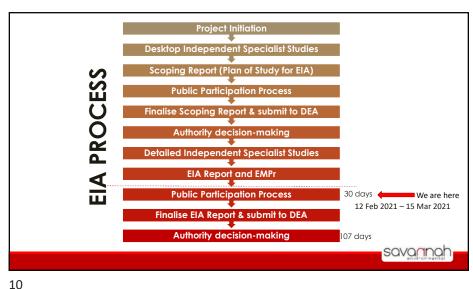
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EIA & Public Participation Processes Summary of environmental studies savannah 9



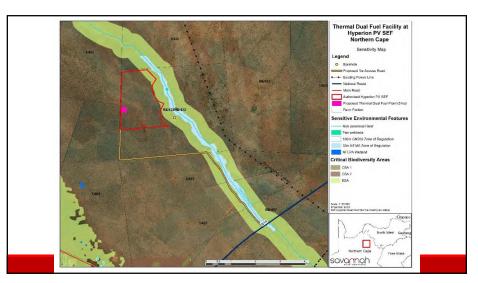
ENVIRONMENTAL IMPACTS/SENSITIVIES IDENTIFIED

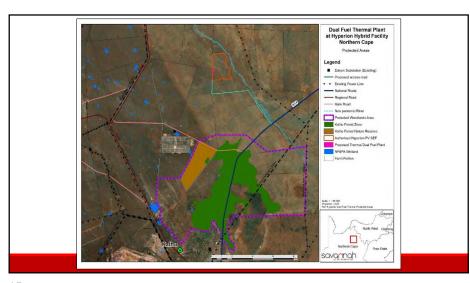
- · Understanding the nature of the proposed Thermal dual fuel facility and the impacts associated with the project, the following has been considered and assessed within the EIA phase:
 - Ecological Impacts (fauna & flora);
 - Wetland and Freshwater Impacts;
 - Soil & Agricultural Impacts;
 - Palaeontological & Archaeological Impacts;
 - Air Quality & Climate Change Impacts;
 - Visual Impacts;
 - Traffic Impacts;
 - Impacts due to unplanned events;
 - Socio-Economic Impacts.



EIA Report Specialist Studies	Assessment of issues
Ecological Assessment (fauna & flora);	Floral and faunal habitat, diversity and species of concern for both thermal plant and upgraded access road. With mitigation: Low impact significance
Avifauna Assessment	Avifauna habitat, diversity, and species of concern for both thermal plant and upgraded access road. With mitigation: Low impact significance
Wetland and Freshwater Assessment	Disturbance of watercourse habitat Alteration of runoff patterns Altered hydrology of the watercourses Altered stream and baseflow patterns With mitigation: Medium impact significance
Soil & Agricultural Assessment	Soil compaction, erosion, and chemical pollution With mitigation: Low impact significance
Quantitative Risk Assessment (unplanned events)	Impact associated with LPG installations With mitigation: Low impact significance

Paleontological & Archaeological	Potential impacts to fossils (palaeontological impacts) Potential impacts to Archaeological stone artefacts (archaeological)
	Potential impacts to Archaeological stone diretacts (atchaeological impacts) Potential impacts to graves With mitigation: Low impact significance
Air Quality & Climate Change Assessment	Potential to impact on the ambient air quality of the area through elevated daily PM10 concentrations Contribute NOX, CO, SOX and VOCs to the existing baseline concentrations Climate change (contribution to GHG emissions) With mitigation: Medium to Low impact significance
Visual Assessment	Intensification of existing industrial impacts With mitigation: Low impact significance
Socio-Economic Assessment	Increase in the production and GDP, and Employment opportunities (economic) Impact on sense of place, presence of construction workers, social upliftment (social) Positive: Medium to High impact significance (with enhancement)





DISCUSSIONS

WAY FORWARD

- » Meeting notes will be distributed for verification
- » Presentation will be distributed
- » Review and comment period for EIA phase ending Monday, 15 March 2021
- » Final EIA Report submission to DEFF including C&RR
- » Notification of authority decision on Environmental Authorisation



WHO TO CONTACT FOR FURTHER INFORMATION

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Nicolene Venter

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Savannah Environmental (Pty) Ltd | Directors: KM Jodas, J Thomas, M Matsabu Company Reg No.: 2006/000127/07

VAT Reg No.: 4780226736

ENVIRONMENTAL IMPACT ASSESSMENT & PUBLIC PARTICIPATION PROCESSES FOR THE 75MW THERMAL DUEL FUEL FACILITY NEAR KATHU, NORTHERN CAPE PROVINCE

MEETING NOTES OF FOCUS GROUP MEETING HELD WITH NORTHERN CAPE DEPARTMENT OF AGRICULTURE, ENVIRONMENTAL AFFAIRS, RURAL DEVELOPMENT & LAND REFORM, AND DEPARTMENT OF ENVIRONMENTAL AFFAIRS FORESTRY AND FISHERIES HELD ON THURSDAY, 04 MARCH 2021 AT 14H00 **VENUE: MS TEAMS PLATFORM**

Meeting notes prepared by:

Nicolene Venter Savannah Environmental (Pty) Ltd **E-mail:** publicprocess@savannahsa.com

Please note that these notes are not <u>verbatim</u>, but a summary of the comments submitted at the meeting. Please address any comments to Savannah Environmental at the above address

DEVELOPMENT OF 75MW THERMAL DUAL FUEL FACILITY AT THE AUTHORISED HYPERION PV 1 & 2 SOLAR ENERGY FACILITY NEAR KATHU, NORTHERN CAPE PROVINCE

MEETING ATTENDEES

Name	Organisation	Position	
Elsabe Swart		Scientific Manager: Research &	
	NC DAEARD&LR	Development Support Unit	
Samantha De la	INC DALANDALK	Production Scientist Grade A: District	
Fontaine		Ecologist	
Jacoline Mans	DAFF	Chief Forester: NFA Regulations	
Ms Jana de Jager		Environmental Assessment Practitioner	
Ms Nicolene Venter	Savannah Environmental	Public Participation and Social	
		Consultant	

Please refer to **Appendix A** for proof of attendance.

Nicolene Venter requested the attendees to introduce themselves, the Department they are representing and their position at the Department. They were also requested to please submit their names and roles on the chat function of MS Teams. The same introductory process was followed by the project team members.

Nicolene Venter welcomed all on the on-line platform and informed the attendees that comments can be submitted on the chat function and verbally during the meeting and advised that any additional comments after the meeting can be submitted via e-mail, WhatsApp or SMS to the public participation office.

Jana de Jager provided a summary of the environmental findings as documented in the Environmental Impact Assessment Report to the attendees and opened the floor for questions and comments.

A copy of the slides presented during the virtual meeting is attached as **Appendix B**.

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Question / Comment	Response
Elsabe Swart enquired that in terms of the freshwater system, runoffs and associated impact, was the DWS consulted and was any conditions provided i.e. off-set options. Elsabe Swart asked who we had communicated to regarding the WULA.	Jana de Jager confirmed that a meeting was held with the DWS to discuss the upgrading and surfacing of the access road adjacent to the Vlermuisleegte River however, it was not viewed as an issue by DWS. A WULA in terms of 21c and i is underway but is undertaken by another independent consultant. The applicant has also engaged with the DWS. Nicolene Venter responded that the process set out by the NC DWS is that all notifications and communications to be addressed to the Deputy Director, Mr Kobus Streuders. Mr Shaun Cloete
	also provided valuable inputs during the meeting held with his Office.
Elsabe Swart enquired that in terms of the Air Quality and Climate Change whether Savannah Environmental was involved in the studies. The reason for the question is to confirm whether Savannah Environmental is aware of the guideline being developed by National Department. She informed the project team that the person to be contacted at their Department is Mr David Kekane, especially in terms of monitoring.	Jana de Jager responded that Airshed had undertaken the Air Quality and Climate Change studies and she will inform them of the contact mentioned by Mrs Swart and to ensure that comments are received from him.
Jana de Jager asked for clarification purposes whether the biodiversity permitting whether the PV permits would only be appreciable to the PVs footprint or for the site as a whole, or is two separate applications required i.e. for the thermal plant as well. To clarify the matter, Elsabe Swart added that separate permits must be submitted for each	Jacoline Mans responded that as two separate EAs will be issued, two separate permitting applications need to be submitted.
EA application. Elsabe Swart stated that when a permit application is lodged, the final layout and walk-through report must be attached to the permit application.	Jana de Jager thank Mrs Swart for the clarification.
Tracking of permit applications is a problem when an application is received before an EA has been issued as the final layout is not	

available at that point of the permitting application. Additional to the above, Elsabe Swart Jana de Jager thanked Mrs Swart for the informed the project team that to ease the information provided. permitting proses that when a permit application is submitted, the following proofs must be attached: EA issued specialist reports biodiversity report air quality report climate change report associated water impacts WULA Monitoring progress Jacoline Mans informed the project team that Jana de Jager responded that she will inform the Department is experiencing frustration the applicants accordingly. when an application is received and only the company name and contact details are provided and not a contact person. It is imperative that there is a person at the company who is taking responsibility for the compliance of the permitting conditions. Elsabe Swart informed the project team that to ensure easy tracking of a permitting application that the Project Name, as registered with the DEFF, and the applicant's name be clearly stated as these information changes with each application amendment to the EA. Elsabe Swart informed the project team that there is no permitting amendment process. If information change, a new application needs to be submitted. It is also important that tracking numbers are strictly adhered as it will fast track where a permit application is in the process when following up. Jacoline Mans informed the project team that Jana de Jager responded that a detailed it was her understanding that the purpose of assessment was done for the PV facility site the meeting would be to discuss the consisting of approximately 300ha of which the environmental findings for the fauna and flora. thermal plant would take up only 5ha. A walkthrough of the entire site was done as part of the PV facility, but only a desk-top verification was done for the thermal plant application and the walkthrough has been referenced in the thermal plan EIAr.

Elsabe Swart enquired for clarification purposes that at the previous meeting it was not yet know whether the fuel source will be gas or diesel or a mix and that it is important to be informed what fuel source will be used as the environmental impacts associated with the fuel sources are different.

Jana de Jager responded that LPG would be used as the fuel source but the plant still operates as dual fuel facility.

Elsabe Swart enquired whether a model of the gas emissions and the content of the process to be used have been modelled by the specialists.

Jana de Jager indicated that in the Air Quality Impact Assessment Report all of the simulated concentrations of these pollutants were modelled, and description provided on the possible impact of these emissions on faunal and flora.

She also informed the attendees that on page 52 in the Air Quality Impact Report, there is a summary of the assessment done on the particulate and emissions on fauna was undertaken.

Samantha de la Fontaine informed the project that the Department already received permitting applications for the hybrid plant facility and to ensure that there is no further confusion, the project team to provide the Department with the timelines of each of the applications. This will assist the Department to have a clear understanding of the way forward.

Jana de Jager responded that as the applicant needed to submit proof of permitting application submitted to the relevant authorities, with their bidding documents before they can be considered as a preferred bidder.

Elsabe Swart added that it is important that the applicant keep track of their permitting numbers as projects are sold to other developers, project name changes takes place, etc and this is part of the confusion within the Department.

She informed the attendees that construction for the thermal plant and hybrid system needs to be in operation by 2022.

Jacoline Mans informed the project team that it is important that proof of preferred bidder status must be submitted with the permit application.

Nicolene Venter, and agreed by Jana de Jager, informed the attendees that a detailed overview table will be requested from the client for each of the PVs, thermal and hybrid applications and provided to the Department as part of the meeting minutes.

Jana de Jager acknowledged that the applicant fast tracks the permitting process to submit it with their bidding documents and should they be selected as a preferred bidder the EA will be submitted to the Department.

Samantha de la Fontaine pointed out that the amended application for the hybrid facility referenced the PV facility and there are other inconsistencies and discrepancies.

Jana de Jager responded that Savannah Environmental will do separate permitting applications going forward.

She advised the project team that when applying for a permit to ensure that the application is applicable to one development

and one EA.

She confirmed that the Department is still awaiting the EAs for the PVs.

Elsabe Swart informed the project team that going forward the following needs to apply:

- all current permit applications to be withdrawn; and
- new applications to be submitted.

The new applications will be captured in their inception diary at the Department's permitting

Jana de Jager confirmed that the process as requested by the Departments will be undertaken.

Elsabe Swart informed the project team that their Department will submit formal comments once they have reviewed the specialists' reports, EIAr and the EMPr.

Nicolene Venter thanked Mrs Swart for the confirmation.

Jacoline Mans requested as to how many tries will be affected by the applications as the Department needs to determine which impacts cannot be mitigated.

Jana de Jager responded that in walkthrough report of the PVs which was done for entire PV facility which consists of 300ha the trees that will be impacted are:

Jacoline Mans raised the concern regarding

the number of impacted trees, and it is envisaged that off-sets might be applicable.

Vachelia erioloba = 8725 Vachelia haematoxylon = 22872

Elsabe Swart reiterated Jacoline comment that the Departments looked at the cumulative impact on protected tree species and not in isolation as per project / Cumulative impacts are not application. considered for EIAs but are considered for permitting.

Jana de Jager responded that the figures mentioned is for the 300ha site of the PV facility not the 5ha applicable to the thermal plant.

Jacoline Mans submitted an upfront warning that there is strong possibility that there will be an off-set for protected trees for all should the projects received preferred bidder status.

Jana de Jager thanked the delegates for the clarification and the information will be shared with the applicant.

Jacoline Mans stated that the off-set should	Jana de Jager enquire whether an off-set needs		
be as a condition in the EA and it not, it can	to be considered for the Thermal Plant		
be included in the licencing application but	specifically. Jacoline responded that it is		
that is not an ideal situation.	unlikely, but in terms of cumulative impact, it is a		
	possibility.		
Jana de Jager enquired whether an off-set	possibility. Jacoline Mans responded that it is unlikely, but		
Jana de Jager enquired whether an off-set would be required for the thermal plant.	,		

CLOSURE

Nicolene Venter thanked the attendees for their valuable inputs into the Environmental Impact Scoping and Basic Assessment processes. The meeting was closed at 15h00.

LIST OF ABBREVIATIONS / ACRONYMS

DAFF	Department of Agriculture,	ElAr	Environmental Impact Assessment
	Forestry and Fisheries		Report
DWS	Department of Water and	EMPr	Environmental Management
	Sanitation		Programme
EA	Environmental Authorisation	WULA	Water Use Lisence Application
NC DAEARD&LR	Northern Cape Department of Agriculture, Environmental Affairs, Rural		
	Development and Land Reform		

		APPENDIX A
Full Name	User Action	Timestamp
Nicolene Venter	Joined	3/4/2021, 1:51:04 PM
Jana de Jager	Joined	3/4/2021, 1:52:41 PM
Jacoline Mans (Guest)	Joined	3/4/2021, 1:55:05 PM
Samantha De la Fontaine (Guest)	Joined	3/4/2021, 2:00:54 PM
elsabe.dtec	Joined	3/4/2021, 2:06:44 PM

elsabe.dtec (Guest) 3/4 2:13 PM
Elsabe Swart, Department of Environment and Nature Conservation (DENC), Kimberley

Jacoline Mans (Guest) 3/4 2:14 PM
Jacoline Mans, Directorate Forestry Management (Other Regions) in the Department of Environment, Forestry and Fisheries (DEFF)

Samantha De la Fontaine (Guest) 3/4 2:15 PM
Samantha De la Fontaine, Department of Environment and Nature Conservation (DENC), Upington (responsible for ZFM and JTG DM's)

75MW THERMAL DUAL FUEL FACILITY AND ASSOCIATED INFRASTRUCTURE NEAR KATHU

Public Participation Presentation March 2021



ADGENDA

- Welcome and Introduction
- Meeting Conduct
- Introduction and Project Overview
- Environmental Studies & Findings
- Discussion

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Way Forward

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CONDUCT OF THE MEETING

- Please stay on mute during the presentation
- Register attendance on Chat [function (name, surname & affiliation)
- ightharpoonup Please raise your hand $\mathop{\oplus}\limits_{}$ to indicate need for clarification for an impact presented
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PURPOSE OF THE MEETING

- Provide stakeholders & I&APs with an overview of the 75MW Thermal dual fuel facility and the associated infrastructure
- Summary of the Environmental Impact Assessment (EIA) & Public Participation being undertaken
- > Present summary of key environmental findings as documented in the EIA Report
- Provide stakeholders the opportunity to seek clarity regarding the project and environmental studies
- Obtain and record comments for inclusion in the Final EIA Report to be submitted to the DEFF

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PROJECT BACKGROUND & INFORMATION (Jana de Jager)



PROJECT DESCRIPTION

- The 75MW Thermal Dual Fuel Facility will comprise the following key infrastructure and components and will be undertaken as a separate EIA process:
 - Reciprocating Engines, utilising Liquified Petroleum Gas (LPG) as a fuel source
 - Access road
 - > Truck entrance and parking facility
 - > Regasification plant and fuel preparation plant
 - Dry cooling system for operating oils/chemicals
 - Fuel off-loading facility
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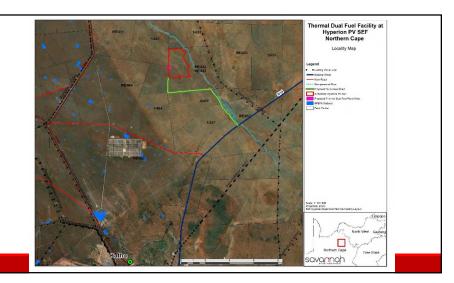
PROJECT OVERVIEW

- Applicant Hyperion Solar Development (Pty) Ltd
- Location The Thermal Dual Fuel Facility and associated infrastructure is to be constructed within the
 project site which comprises the following land titles:
 - Remainder of Farm Lyndoch 432
 - Remainder of the Farm 457, Portion 1 of the Farm 457, and Portion 2 of the Farm 457
- Project proposal development of a 75MW thermal dual fuel facility and upgraded access road
- Need and desirability South Africa is currently experiencing electricity supply challenges, which in turn is leading to periodic periods of load shedding. As part of South Africa's long term energy security planning, as outlined in the Integrated Resource Plan 2019 ("IRP2019"), 2000 to 3000MW of new generation capacity is required from technologies to be determined. The Project site and chosen technology solution is ideally located to meet the IPP Office's objectives. In addition to the introduction of much needed new electricity generation capacity onto the grid, the project will also provide much needed direct investment into the Kathu area and will stimulate additional business in and around the power station in support of its operations.

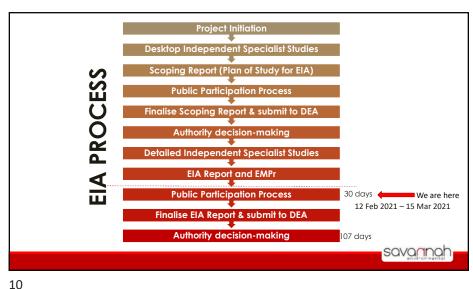
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EIA & Public Participation Processes Summary of environmental studies savannah 9



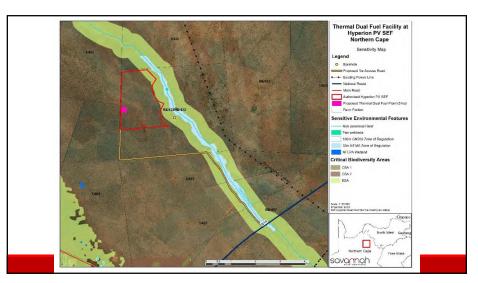
ENVIRONMENTAL IMPACTS/SENSITIVIES IDENTIFIED

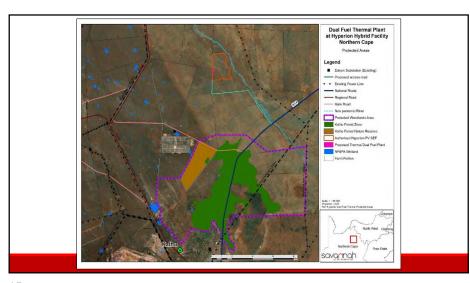
- · Understanding the nature of the proposed Thermal dual fuel facility and the impacts associated with the project, the following has been considered and assessed within the EIA phase:
 - Ecological Impacts (fauna & flora);
 - Wetland and Freshwater Impacts;
 - Soil & Agricultural Impacts;
 - Palaeontological & Archaeological Impacts;
 - Air Quality & Climate Change Impacts;
 - Visual Impacts;
 - Traffic Impacts;
 - Impacts due to unplanned events;
 - Socio-Economic Impacts.



EIA Report Specialist Studies	Assessment of issues	
Ecological Assessment (fauna & flora);	Floral and faunal habitat, diversity and species of concern for both thermal plant and upgraded access road. With mitigation: Low impact significance	
Avifauna Assessment	Avifauna habitat, diversity, and species of concern for both thermal plant and upgraded access road. With mitigation: Low impact significance	
Wetland and Freshwater Assessment	Disturbance of watercourse habitat Alteration of runoff patterns Altered hydrology of the watercourses Altered stream and baseflow patterns With mitigation: Medium impact significance	
Soil & Agricultural Assessment	Soil compaction, erosion, and chemical pollution With mitigation: Low impact significance	
Quantitative Risk Assessment (unplanned events)	Impact associated with LPG installations With mitigation: Low impact significance	

EIA Report Specialist Studies	Assessment of issues
Paleontological & Archaeological	Potential impacts to fossils (palaeontological impacts) Potential impacts to Archaeological stone artefacts (archaeological impacts) Potential impacts to graves With mitigation: Low impact significance
Air Quality & Climate Change Assessment	Potential to impact on the ambient air quality of the area through elevated daily PM10 concentrations Contribute NOX, CO, SOX and VOCs to the existing baseline concentrations Climate change (contribution to GHG emissions) With mitigation: Medium to Low impact significance
Visual Assessment	Intensification of existing industrial impacts With miligation: Low impact significance
Socio-Economic Assessment	Increase in the production and GDP, and Employment opportunities (economic) Impact on sense of place, presence of construction workers, social upliftment (social)





DISCUSSIONS

WAY FORWARD

- » Meeting notes will be distributed for verification
- » Presentation will be distributed
- » Review and comment period for EIA phase ending Monday, 15 March 2021
- » Final EIA Report submission to DEFF including C&RR
- » Notification of authority decision on Environmental Authorisation



WHO TO CONTACT FOR FURTHER INFORMATION

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Nicolene Venter

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www.savannahSA.com



SCOPING PHASE



Savannah Environmental (Pty) Ltd | Directors: KM Jodas, J Thomas, M Matsabu Company Reg No.: 2006/000127/07

VAT Reg No.: 4780226736

SCOPING AND BASIC ASSESSMENT & PUBLIC PARTICIPATION PROCESSES FOR THE 75MW THERMAL DUEL FUEL FACILITY and 132KV POWER LINE NEAR KATHU, NORTHERN CAPE PROVINCE

MEETING NOTES OF FOCUS GROUP MEETING HELD WITH AUTHORITIES HELD ON FRIDAY, 20 NOVEMBER 2020 AT 10H00 **VENUE: MS TEAMS PLATFORM**

Meeting notes prepared by:

Nicolene Venter Savannah Environmental (Pty) Ltd **E-mail:** publicprocess@savannahsa.com

Please note that these notes are not <u>verbatim,</u> but a summary of the comments submitted at the meeting. Please address any comments to Savannah Environmental at the above address

DEVELOPMENT OF 75MW THERMAL DUAL FUEL FACILITY AND ASSOCIATED 132KV POWER LINE AT THE AUTHORISED HYPERION PV 1 & 2 SOLAR EENERGY FACILITY

LIST OF ABBREVIATIONS / ACRONYMS

ВА	Basic Assessment	DAFF	Department of Agriculture, Forestry
			and Fisheries
EA	Environmental Authorisation	EIA	Environmental Impact Assessment
NC DAEARD&LR	Northern Cape Department of Agriculture, Environmental Affairs, Rural		
	Development and Land Reform		

MEETING ATTENDEES

Name	Organisation	Position
Elsabe Swart		Scientific Manager: Research &
	NC DAEARD&LR	Development Support Unit
Samantha De la		Production Scientist Grade A: District
Fontaine		Ecologist
Jacoline Mans	DAFF	Chief Forester: NFA Regulations
Mrs Arlene Singh		Environmental Assessment Practitioner
Ms Jana de Jager	Savannah Environmental	Environmental Assessment Practitioner
Ms Nicolene Venter		Public Participation and Social
		Consultant

Please refer to **Appendix A** for proof of attendance.

Nicolene Venter requested the attendees to introduce themselves, the Department they are representing and their position at the Department. They were also requested to please submit their names and roles on the chat function of MS Teams. The same introductory process was followed by the project team members.

Nicolene Venter welcomed all on the on-line platform and informed the attendees that comments can be submitted on the chat function and verbally during the meeting and advised that any additional comments after the meeting can be submitted via e-mail, WhatsApp or SMS to the public participation office.

Arlene Singh provided a summary of the presentation to the attendees and opened the floor for questions and comments.

A copy of the slides presented during the virtual meeting is attached as **Appendix B**.

Question / Comment	Response
75MW THERMAL DUAL FUEL FACILITY EIA: Comm	-
Jacoline Mans informed the project team that the Farm Kathu 465 is part of the Kathu Protected Woodland, which has land-use restrictions. Jacoline Mans asked how many protected trees were encountered on the Farm Lyndoch within the development footprint.	Arlene Singh responded that the existing Kalbas Substation is located on the Farm Kathu 465. Only the proposed overhead power line will transverse the boundary of the Farm Kathu 465 to connect to the existing substation located on the property. The proposed thermal facility and access road will not intrude onto the property. Arlene Singh responded that the exact number of trees will have to be confirmed in the specialist ecological assessment however, it has been determined that there are several protected tree species on the property. It should also be noted that the development footprint of the thermal facility is located within the authorised Hyperion PV 1 and PV 2 facility footprint of approximately 5ha. Post-meeting note: The number of protected tree species will be confirmed following the field investigations that will be undertaken for the EIA phase of the
Elsabe Swart requested that the technologies used for the duel fuel facility can be explained. Elsabe Swart informed the project team that it should be made clear during the EIA phase reporting, that the thormal facility will be	project. Arlene Singh responded that the authorised PV facility does not operate during night-time. Therefore, the proposed thermal facility will produce power during hours which the PV facility is non-operational, in line with the IPP's RMIPPPP specifications. The facility will consist of either gas turbines or reciprocating gas engines and will use either LPG or diesel as fuel sources. The assessment of the different technology and fuel alternatives will be further assessed during the EIA phase and will be incorporated into the Air Quality Impact Assessment and Climate Change Assessment. Arlene Singh noted this request for inclusion in EIA reporting and confirm that it will be included.
reporting that the thermal facility will be located within the already authorised PV facility footprint and EA reference numbers of the authorised facility should be included.	included.

132KV POWER LINE BA: Comments and questions		
Jacoline Mans asked what the locality of the	Arlene Singh referred to the power line locality	
power line is in relation to the access road is	in the presentation. The proposed power line is	
	indicated in green on the map and is within a	
	300m corridor that has been assessed. The	
	proposed access route to the thermal facility will	
	essentially follow the same route as the	
	overhead power line	
Elsabe Swart asked what mitigation measures	Arlene Singh responded that there were several	
are being proposed for the overhead power	mitigation measures highlighted in the specialist	
line.	studies and BA report. Chapter 6 of the BA	
	report contains all the proposed specialist	
	recommendations and mitigation measures.	
GENERAL COMMENTS / QUESTIONS		
Jacoline Mans enquired regarding the	Arlene Singh responded that power plant	
construction timeframes of the PV 1 and PV2	projects bidding into the RMIPPPP must be	
facilities, should the project team have this	operational by December 2022. Therefore,	
information available.	construction of the PV facilities may possibly	
	occur during 2021. However, exact dates of	
	construction are yet to be confirmed by the	
	client. Anticipated construction dates will be	
	included in the EIA phase report.	
Elsabe Swart requested that the EAs issued for	Arlene Singh noted this request and confirm that	
PV facilities be distributed with the minutes of	it will be attached to the meeting minutes as an	
the meeting	appendix.	
	Post-meeting note:	
	The EAs are included in Appendix C of the	
	meeting minutes.	

CLOSURE

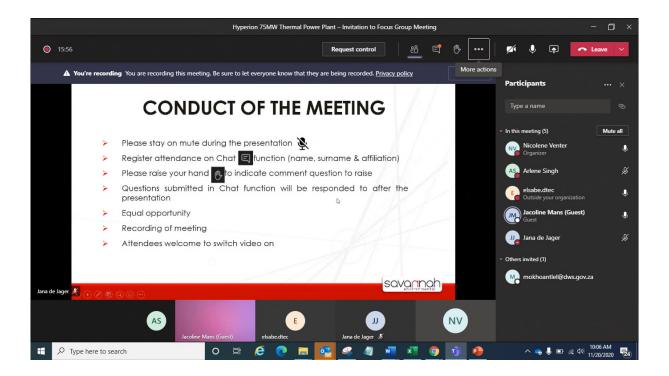
Nicolene Venter thanked the attendees for their valuable inputs into the Scoping and Basic Assessment processes. The meeting was closed at 10h45.

APPENDIX A

AUTHORITITY FOCUS GROUP MEETING

Attendance register for the Focus Group Meeting held on Friday, 20 November 2020 at 10h00 for the

Development of 75MW Thermal Dual Fuel Facility and Associated 132kV Power Line at the authorised Hyperion PV1 & PV2 Solar Energy Facility



APPENDIX B

75MW THERMAL DUAL FUEL FACILITY AND ASSOCIATED 132KV POWER LINE INFRASTRUCTURE NEAR KATHU

Public Participation Presentation November 2020

savannah

ADGENDA

- Welcome and Introduction
- Meeting Conduct
- Introduction and Project Overview
- Environmental Studies & Findings
- Discussion

2

Way Forward

savannah

1

CONDUCT OF THE MEETING

- Please stay on mute during the presentation 🔌
- Register attendance on Chat function (name, surname & affiliation)
- > Please raise your hand to indicate comment question to raise
- Questions submitted in Chat function will be responded to after the presentation
- Equal opportunity
- Recording of meeting
- Attendees welcome to switch video on

savannah

PURPOSE OF THE MEETING

- Provide stakeholders & I&APs with an overview of the 75MW Thermal dual fuel facility and the associated 132kV power line infrastructure
- Summary of the Environmental Impact Assessment (EIA), Basic Assessment (BA) & Public Participation being undertaken
- Present summary of key environmental findings as documented in the Scoping Report and BA Report
- > Provide stakeholders the opportunity to seek clarity regarding the project and environmental studies
- Opportunity to provide valuable input into/to inform the EIA and BA processes
- Obtain and record comments for inclusion in the Final Scoping Report and Final BA Report to be submitted to the DEFF

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PROJECT BACKGROUND & INFORMATION (Arlene Singh)

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PROJECT DESCRIPTION

- The 75MW Thermal Dual Fuel Facility will comprise the following key infrastructure and components and will be undertaken as a separate EIA process:
 - Either open cycle gas turbines or reciprocating gas engine technologies.
 - Regasification plant and fuel preparation plant
 - Dry cooling system for operating oils/chemicals
 - Fuel off-loading facility
 - Fuel storage facility
 - Water demineralisation plant

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PROJECT OVERVIEW

- Applicant Hyperion Solar Development (Pty) Ltd
- Location The Thermal Dual Fuel Facility and associated 132kV power line infrastructure is to be constructed within the project site which comprises the following land titles:
- Remainder of Farm Lyndoch 432
- Portion 1 of Farm Selsden 464
- Remainder of the Farm Kathu 465
- Project proposal 1) development of a 75MW thermal dual fuel facility and associated 132kV power line infrastructure (separate BA process).
- Need and desirability South Africa is currently experiencing electricity supply challenges, which in turn is leading to periodic periods of load shedding. As part of South Africa's long term energy security planning, as outlined in the Integrated Resource Plan 2019 ("IRP2019"), 2000 to 3000MW of new generation capacity is required from technologies to be determined. The Project site and chosen technology solution is ideally located to meet the IPP Office's objectives. In addition to the introduction of much needed new electricity generation capacity onto the grid, the project will also provide much needed direct investment into the Kathu area and will stimulate additional business in and around the power station in support of its operations.

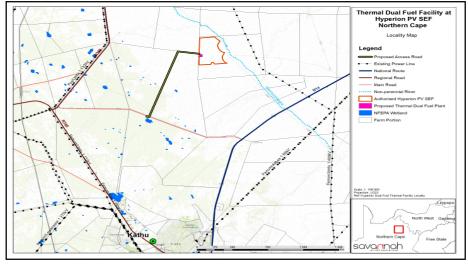
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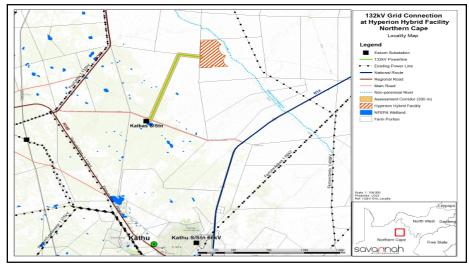
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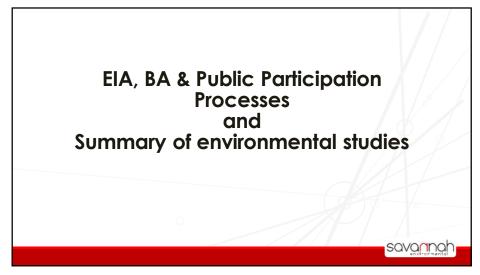
PROJECT DESCRIPTION

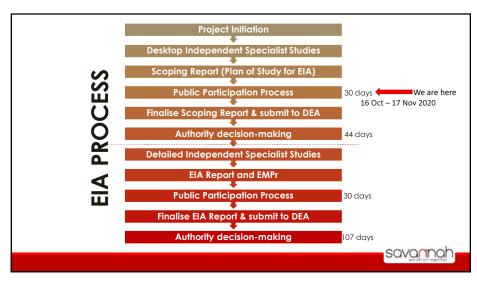
- The 132kV Hyperion-Kalbas power line will comprise the following key infrastructure and components and will be undertaken as a separate BA process:
 - A single- or double-circuit 132kV overhead power line
 - > 300m wide and 8km long corridor
 - Associated infrastructure:
 - Laydown areas.
 - Servitude road

savannah









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ENVIRONMENTAL IMPACTS/SENSITIVIES IDENTIFIED

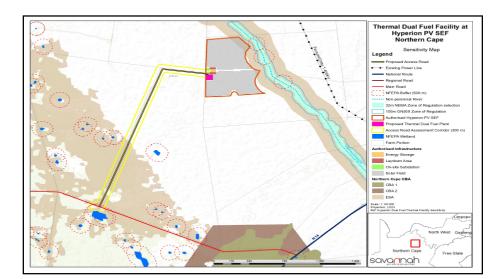
- Understanding the nature of the proposed Thermal dual fuel facility and the impacts associated with the project (as identified in the Scoping phase), the following has been considered and assessed within the Scoping phase:
 - Ecological Impacts (fauna & flora);
 - Wetland and Freshwater Impacts;
 - Soil & Agricultural Impacts;
 - Palaeontological & Archaeological Impacts;
 - Air Quality & Climate Change Impacts;
 - Noise Impacts;
 - Visual Impacts;
 - Positive & Negative Socio- Economic Impacts.

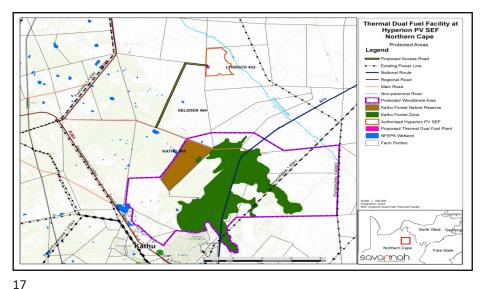


Scoping Report Specialist Studies	Scoping of issues Habitat fragmentation Loss of floral and faunal communities Alteration, degradation, loss, or destruction of faunal and floral habitat Loss of protected and/or SCC plant species Loss of a poorly protected ecosystem Loss of ESA areas Loss of a developmental corridor Soil and water contamination	
Ecological Assessment (fauna & flora);		
Wetland and Freshwater Assessment	Disturbance of watercourse habitat The decrease of watercourse habitat integrity Alteration of runoff patterns Altered hydrology of the watercourses Altered stream and baseflow patterns Contamination of surface water bodies	
Soil & Agricultural Assessment	Soil compaction Soil erosion Loss of soil fertility through disturbance of in situ horizon organisation Soil chemical pollution	

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Scoping Report Specialist Studies	Scoping of issues
Paleontological & Archaeological	 Potential impacts to fossils (palaeontological impacts) Potential impacts to Archaeological stone artefacts (archaeological impacts) Potential impacts to graves
Air Quality Assessment	 Potential to impact on the ambient air quality of the area through elevated daily PM10 concentrations Contribute NOX, CO, SOX and VOCs to the existing baseline concentrations
Noise Assessment	Increased the noise levels in the vicinity of the plant
Visual Assessment	Intensification of existing industrial impacts
Socio-Economic Assessment	 Increase in the production and GDP-R temporary employment opportunities





PLAN OF STUDY FOR EIA PHASE ASSESSMENTS » Based on the findings of the Scoping assessment, the following issues were identified as not requiring further investigation within the EIA, and no further or detailed assessment is required: Impacts on noise » Based on the findings of the Scoping assessment, the following further investigation within the EIA phase are required: Ecological Assessment (Terrestrial); Wetland and Aquatic Assessments; Air Quality Impact Assessment; Climate Change Impact Assessment; Visual Impact Assessment; Socio-Economic Impact Assessment; Soil and Agricultural Potential Assessment Heritage Impact Assessment Traffic Impact Assessment Risk Assessment savannah

ENVIRONMENTAL IMPACTS/SENSITIVIES IDENTIFIED

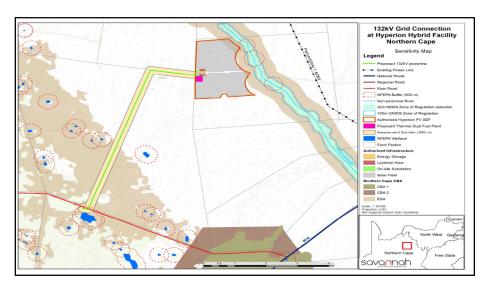
- Understanding the nature of the proposed 132kV powerline and the impacts associated with the project (as identified in the Basic Assessment), the following has been considered and assessed within the BA:
 - Ecological Impacts (fauna & flora);
 - Avifauna Impacts
 - Wetland and Freshwater Impacts;
 - Soil & Agricultural Impacts;
 - Palaeontological & Archaeological Impacts;
 - Visual Impacts;
 - Positive & Negative Socio- Economic Impacts.



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BA Report Specialist Studies	Impacts Assessed
Ecological Assessment (fauna & flora);	Impact on Floral Habitat and Diversity, and Floral species of concern Impact on Faunal Habitat and Diversity, and Faunal species of concern With mitigation: low to very low impact significance
Avifauna Assessment	Impact on avifaunal diversity and habitat
	With mitigation: low impact significance
Wetland and Freshwater Assessment	 Impacts on the hydrology and sediment balance of the wetlands Changes to the socio-cultural and service provision; and Impacts on water quality.
	With mitigation: low impact significance
Soil & Agricultural Assessment	Loss of capability and soils
	Without mitigation: medium to low impact significance

Scoping Report Specialist Studies	Scoping of issues	
Paleontological & Archaeological	Potential impacts to fossils (palaeontological impacts) Potential impacts to Archaeological stone artefacts (archaeological impacts) Potential impacts to graves Potential impacts to cultural landscapes and scenic routes With mitigation: low impact significance	
Visual Assessment	 Visual impact of construction and operational activities on sensitive visual receptors in close proximity to the proposed power line infrastructure. The potential impact on the sense of place of the region. With mitigation: low impact significance	
Socio-Economic Assessment	 Socio-economic stimulation Temporary employment opportunities Transformation of sense of place 	
	With mitigation/ enhancement: low to medium impact significance	



21 22



WAY FORWARD
 Meeting notes will be distributed for verification
 Presentation will be distributed
 Review and comment period for Scoping phase ending 17 November 2020
 Review and comment period for Basic Assessment ending 26 November 2020
 Final Scoping Report submission to DEFF envisaged 25 November 2020
 Final Basic Assessment Report submission to DEFF envisaged 2 December 2020
 Notification of commencement of impact phase for the Thermal dual fuel facility

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WHO TO CONTACT FOR FURTHER INFORMATION

Savannah Environmental (Pty) Ltd

Nicolene Venter

Email: <u>publicprocess@savannahsa.com</u>

PO Box 148, Sunninghill, 2157

Tel: 011 656 3237 Fax: 086 684 0547

www.savannahSA.com





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

DEA Reference: 14/12/16/3/3/2/1109 Enquiries: Mr Dakalo Netshiombo

Telephone: (012) 399 8877 E-mail: DNetshiombo@environment.gov.za

Matteo Brambilla Cyraguard (Pty) Ltd Postnet Suite 150 Private Bag X3 ROGGEBAAI 8012

Cellphone number: (060) 605 2848

Email address: d.pasi@buildingenergy.it

PER E-MAIL / MAIL

Dear Sir/ Madam

ENVIRONMENTAL AUTHORISATION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, ACT NO. 107 OF 1998, GN R982, GN R983 AND GN R984 AS AMENDED: FOR THE CONSTRUCTION OF HYPERION SOLAR DEVELOPMENT 1 WITHIN THE GAMAGARA LOCAL MUNICIPALITY 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 4(2) of the Environmental Impact Assessment Regulations, 2014, as amended (the EIA Regulations), you are instructed to notify all registered interested and affected parties, in writing and within 14 (fourteen) days of the date of the EA, of the Department's decision as well as the provisions regarding the submission of appeals that are contained in the Regulations.

In terms of the Promotion of Administrative Justice Act, Act No. 3 of 2000, you are entitled to the right to fair, lawful and reasonable administrative action; and to written reasons for administrative action that affects you negatively. Further your attention is drawn to the provisions of the Protection of Personal Information Act, Act No. 4 of 2013 which stipulates that the Department should conduct itself in a responsible manner when collecting, processing, storing and sharing an individual or another entity's personal information by holding the Department accountable should the Department abuses or compromises your personal information in any way.

Your attention is drawn to Chapter 2 of National Environmental Management Act, Act No. 107 of 1998 National Appeal Regulations published under Government Notice R993 in Government Gazette No. 38303 dated 08 December 2014 (National Appeal Regulations, 2014), which prescribe the appeal procedure to be followed. Kindly include a copy of this document (National Appeal Regulations, 2014) with the letter of notification to interested and affected parties in this matter.

Should any person wish to lodge an appeal against this decision, he/she must submit the appeal to the appeal administrator, and a copy of the appeal to the applicant, any registered interested and affected party, and any organ of state with interest in the matter within 20 days from the date that the notification of the decision was sent to the registered interested and affected parties by the applicant; or the date that the notification of the decision was sent to the applicant by the Department, whichever is applicable.

Appeals must be submitted in writing in the prescribed form to:

The Director: Appeals and Legal Review of this Department at the below mentioned addresses.

By email: appealsdirectorate@environment.gov.za;

By hand: Environment House

473 Steve Biko

Arcadia Pretoria 0083; or

By post: Private Bag X447

Pretoria 0001

Please note that in terms of Section 43(7) of the National Environmental Management Act, Act No. 107 of 1998, as amended, the lodging of an appeal 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 appealsdirectorate@environment.gov.za.

Yours faithfully

Mr Sabelo Malaza

Chief Director: Integrated Environmental Authorisations

Department of Environmental Affairs

Date: 30/08/2018

Cc	Ms Jo-anne Thomas	Savannah Environmental (Pty) Ltd	Tel: (011) 656 3237	Email: joanne@savannahsa.com
	Bryan Fisher	Northern Cape(DENC)	Tel: (053) 807 7431	Email: BFischer@ncpg.gov.za
	Thusoeng Itumeleng	Gamagara Local Municipality	Tel: (053) 723 6000	Email: clementi@gamagara.gov.za



Environmental Authorisation

In terms of Regulation 25 of the Environmental Impact Assessment Regulations, 2014 as amended

The construction of Hyperion Solar Development 1 within Gamagara Local Municipality in the Northern Cape Province

John Taolo Gaetsewe District Municipality

Authorisation register number:	14/12/16/3/3/2/1109
Last amended:	First issue
Holder of authorisation:	Cyraguard (Pty) Ltd
Location of activity:	Remaining Extent of the Farm Lyndoch 432,
	Portion 1 of the Farm Cowley 457,
	Portion 2 of the Farm Cowley 457
	Remaining extent of the Farm Cowley 457 within ward
	7 of Gamagara Local Municipality, John Taolo
	Gaetsewe District Municipality, Northern Cape Province

This 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, 2014 the Department hereby authorises –

CYRAGUARD (PTY) LTD

with the following contact details -

Matteo Brambilla

Cyraguard (Pty) Ltd

Postnet Suite 150

Private Bag X3

ROGGEBAAI

8012

Cellphone number:

(060) 605 2848

Email address:

d.pasi@buildingenergy.it

to undertake the following activities (hereafter referred to as "the activity") indicated in Listing Notice 1 and Listing Notice 2 as amended (GN R. 983 and 984 as amended):

Listed activities	Activity/Project description
GN R. 983 Listing Notice 1: Activity 11(i)	
"The development of facilities or infrastructure for the	The project entails the construction of a new
transmission and distribution of electricity–	132kV on-site substation to evacuate electricity
(i) outside urban areas or industrial complexes with a	generated by the project into the national
capacity of more than 33 but less than 275 kV"	electricity grid. The on-site substation will have a
	capacity of 132kV and is located outside an urban
	area.
GN R. 983- Listing Notice 1: Activity 12(ii)(a)(c)	The upgrade of the access road Alternative 1 will
"The development of-	be directly within the Vlermuisleegte watercourse
(ii) infrastructure or structures with a physical footprint	and will be over 100 square metres.
of 100m² or more;	
where such development occurs-	
(a) within a watercourse;	
(c) If no development setback line occurs within 32	
metres of a watercourse, measured from the edge	
of the watercourse"	
GN R. 983- Listing Notice 1: Activity 19	Access road Alternative 1 will be required to route
"The infilling or depositing of any material of more than	into the Vlermuisleegte River and watercourse
10 cubic metres into, or dredging, excavation, removal or	crossing will be required to be upgraded and or
moving of soil, sand, shells, shell grit, pebbles, or rock of	constructed.
more than 10 cubic metres from a watercourse"	
GN R. 983- Listing Notice 1: Activity 24(ii)	The construction of the solar energy facility will
"The development of a road-	require the construction and upgrading of an
(ii) with a reserve wider than 13,5 metres, or where no	existing two-tyre track to provide access to the
reserve exists where the road is wider than 8	facility as well as the construction of new access
metres"	roads up to 9m in width.

GN R. 983- Listing Notice 1: Activity 28(ii)

"Residential, mixed, retail, commercial, industrial or institutional developments where such land was used for agriculture or afforestation on or after 01 April 1998 and where such development:

(ii) will occur outside an urban area, where the total land to be developed is bigger than 1 ha; excluding where such land has already been developed for residential, mixed, retail, commercial, industrial or institutional purposes" The total area of land to be developed for the solar energy facility is larger than 1 hectare. The site is currently used for agricultural purposes. The total extent of the development footprint is 180ha.

GN R. 983- Listing Notice 1: Activity 48(i)(a)(c)

"The expansion of-

 (i) infrastructure or structures where the physical footprint is expanded by 100 square metres or more;

where such expansion occurs-

- (a) within a watercourse
- (c) If no development setback line occurs within 32 metres of a watercourse, measured from the edge of the watercourse"

The upgrading of Access Road Alternative 1 within 32m and within the Vlermuisleegte River will require the widening of the road by 4m for approximately 2.5km.

GN R. 984- Listing Notice 2: Activity 1

"The development of facilities or infrastructure for the generation of electricity from a renewable resource where the electricity output is 20 megawatts or more"

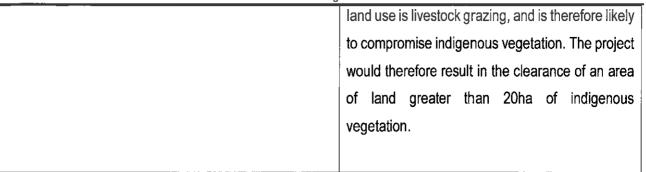
The project comprises a renewable energy generation facility, which will utilise photovoltaic (PV) technology and will have a generation capacity of up 75MW. The development is located outside of an urban area and is proposed to be ground-mounted.

GN R. 984-Listing Notice 2: Activity 15

"The clearance of an area of 20ha or more of indigenous vegetation"

The project requires the clearance of an area of up to 180 ha (equivalent to the development footprint) of vegetation. The project is proposed on an agricultural property where the predominant

Department of Environmental Affairs Environmental Authorisation Reg. No. 14/12/16/3/3/2/1109



This EA does not include activities listed under Listing Notice 3: <u>Activity 4(g)(ii)(ee)</u>, <u>Activity 12(g)(ii)</u> and <u>Activity 18(g)(ii)(ee)</u> as they are applicable to Alternative 2 and 3. Alternative 1 for the access road is approved for this development.

as described in the final Environmental Impact Assessment Reports (EIAr) dated May 2019 at:

Hyperion Solar Development 1:

Remaining Extent of the Farm Lyndoch 432;

Portion 1 of the Farm Cowley 457;

Portion 2 of the Farm Cowley 457; and

Remaining Extent of the Farm Cowley 457

21 SG Code:

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С	0	4	i	0	0	0	0	0	0	0	0	0	4	5	7	0	0	0	0	0

Bend points coordinates (Development Area):

	Latitude (S)	Longitude (E)
Starting at the most northern point and moving clockwise	27° 32' 19,710" S	23° 4' 29,705" E
	27° 32' 22,586" S	23° 4' 32,645" E
	27° 32' 23,316" S	23° 4' 33,636" E
	27° 32' 25,435" S	23° 4' 36,174" E
	27° 32' 26,973" S	23° 4' 37,678" E
	27° 32' 31,879" S	23° 4' 41,875" E
	27° 32' 38,771" S	23° 4' 45,593" E
	27° 32' 45,451" S	23° 4' 47,449" E
	27° 32′ 55,728″ S	23° 4' 51,517" E
	27° 33' 2,185" S	23° 4' 56,734" E
	27° 33' 3,178" S	23° 4' 56,777" E
	27° 33' 5,780" S	23° 3' 48,438" E

Preferred (Access Road) Alternative 1 Co-ordinates:

	Latitude (S)	Longitude (E)
Start (intersection to the N14)	27°35'47.55"S	23°07'19.27"E
Middle	27°34′59.28"S	23°06'39.12"E
End (perimeter road)	27°34'11.15"S	23°05'58.79"E

- for the proposed construction of the Hyperion Solar Development 1 within Gamagara Local Municipality in the Northern Cape Province, hereafter referred to as "the property".

The infrastructure associated with this facility includes:

- Arrays of PV panels (static or tracking PV system) with a contracted capacity of up to 75MW;
- Mounting structures to support the PV panels;
- On-site inverters (to convert the power from Direct Current (DC) to Alternating Current (AC) and distribution power transformers;
- An on-site substation to facilitate the connection between the project and the Eskom electricity grid;
- Cabling between the project's components (to be laid underground where practical);
- Battery storage mechanism with a storage capacity of up to 300MWh;
- Water purification plant;

- Site offices and maintenance buildings, including workshop areas for maintenance and storage;
- Temporary laydown area up to 1ha in extent;
- Batching plant;
- Internal access roads, perimeter road and fencing around the development area; and
- Main access road to the site development area utilising Access Road Alternative 1.

Planned infrastructure proposed as part of Hyperion Solar Development 1:

Infrastructure	Dimensions/ Details
Solar Facility	- Photovoltaic (PV) technology.
	- Solar panels up to 6m in height.
	- Fixed-tilt, single-axis tracking, or dual-axis (double-axis)
	tracking systems.
	- On-site inverters (to convert the power from DC to AC), and
	power transformers.
	- PV structures / modules up to 156ha in extent (depending
	on the type of support structure selected for implementation
	(i.e. static vs tracking).
Energy Storage	- Up to 1ha in extent.
	- Storage capacity of up to 300MWh.
	- Batteries will be stored in battery storage units.
Supporting Infrastructure	- On-site buildings and structures, including a maintenance
	building and office building, ablutions and guard house and
	security building to occupy an area up to 0.05ha in extent.
	- Perimeter security fencing and access gates up to 3m in
	height.
	- Temporary laydown area up to 1.6ha in extent, for the
	storage of materials during the construction.
	- Batching plant, to be located within the laydown area.
On-site substation	- On-site substation with a 132kV capacity.
	- Will occupy an area up to 1ha in extent

Access road	- Main access road – four access road alternatives are being
Access Toda	considered:
	O Alternative 1 – The upgrade of approximately 3.6km of the
	existing T26 gravel road situated between the project site
	and the N14. The existing road will be upgraded from
	approximately 5m to 9m in width.
	- Internal access road – 6m wide and approximately 19.5km
	in length (to be gravel).
	- Perimeter road – The use of the existing perimeter road 6m
	in width and approximately 7.4km in length.
Water Supply	- Approximately 10 000m³ of water is required over a 12
	month period during construction.
	o Approximately 50 000m³ of water per year is required for
	operation (25 years). Water will be sourced from three
	existing boreholes located on the property during
	construction and operation.
	- The following water supply option is currently being
	considered:
	Water will be sourced from three existing boreholes located
	on the property during construction and operation. A water
	purification plant may be installed to purify the borehole
	water to potable standards. The purification plant will be
	located adjacent to the existing boreholes.
Services required.	- Refuse material disposal - all refuse material generated
	from the proposed development will be collected by a
	private contractor and will be disposed of at a licensed
	waste disposal site off site. This service will be arranged
	with the municipality when required.
	- Sanitation – during construction chemical toilets will be
	used and will be emptied by the municipality. During
	operation, the facility will utilise conservancy tanks. A
	contractor will be appointed to empty the tanks and to
	dispose of the sewage at a licensed waste disposal site.
	- Water supply - water will be sourced from up to three
	existing boreholes located on the property. If required,
	- 1

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	these boreholes will be licensed with the Department of
·	Water and Sanitation (DWS) post preferred bidder status.
3 3	Electricity supply – agreements with the Gamagara Local
	Municipality will be established for the supply of electricity
	to the PV facility.

Conditions of this Environmental Authorisation

Scope of authorisation

- 1. The proposed construction of the Hyperion Solar Development 1 within Gamagara Local Municipality in the Northern Cape Province is hereby approved as per the geographic coordinates indicated above.
- 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 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 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 authorisation to apply for further environmental authorisation in terms of the regulations.
- 6. The holder of an environmental authorisation must apply for an amendment of the 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.
- 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 authorisation lapses and a new application for environmental authorisation must be made in order for the activity to be undertaken.
- 8. Commencement with one activity listed in terms of this environmental authorisation constitutes commencement of all authorised activities.

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 14 (fourteen) 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 authorisation was issued;
 - 10.2. inform the interested and affected party of the appeal procedure provided for in the National Appeal Regulations, 2014;
 - advise the interested and affected party that a copy of the authorisation will be furnished on request;
 and
 - 10.4. give the reasons of the Competent Authority for the decision.

Commencement of the activity

11. The authorised activity shall not commence until the period for the submission of appeals has lapsed as per the National Appeal Regulations, 2014, and no appeal has been lodged against the decision. In terms of Section 43(7), an appeal under Section 43 of the National Environmental Management Act, Act No. 107 of 1998, as amended 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.

Management of the activity

- 12. The layout plan titled "Hyperion Solar Development 1, Northern Cape Environmental Sensitivity and Combined Layout Map" and appended to the final ElAr dated May 2019 as Appendix N is hereby approved.
- 13. The EMPr compiled by Savannah Environmental (Pty) Ltd and appended to the final EIAr dated May 2019 as Appendix K is hereby approved and must be implemented and adhered to.
- 14. Furthermore, a shapefile of the approved 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

Department of Environmental Affairs
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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

Physical address:

Department of Environmental Affairs
Environment House

473 Steve Biko

Arcadia

0001

Pretoria

For Attention: Mr Muhammad Essop Integrated Environmental Authorisations Strategic Infrastructure Developments

Telephone Number:

(012) 399 9406

Email Address:

MEssop@environment.gov.za

Frequency and process of updating the EMPr

- 15. Changes to the approved EMPr must be submitted in accordance to the EIA Regulations applicable at the time.
- 16. The Department reserves the right to amend the approved EMPr should any impacts that were not anticipated or covered in the ElAr be discovered.
- 17. The EMPr must be updated where the findings of the environmental audit reports, contemplated in Condition 25 below, indicate insufficient mitigation of environmental impacts associated with the

- undertaking of the activity, or insufficient levels of compliance with the environmental authorisation or EMPr.
- 18. The updated EMPr must contain recommendations to rectify the shortcomings identified in the environmental audit report.
- 19. The updated EMPr must be submitted to the Department for approval together with the environmental audit report, as per Regulation 34 of GN R. 982. The updated EMPr must have been subjected to a public participation process, which process has been agreed to by the Department, prior to submission of the updated EMPr to the Department for approval.
- 20. In assessing whether to grant approval of an EMPr which has been updated as a result of an audit, the Department will consider the processes prescribed in Regulation 35 of GN R.982. Prior to approving an amended EMPr, the Department may request such amendments to the EMPr as it deems appropriate to ensure that the EMPr sufficiently provides for avoidance, management and mitigation of environmental impacts associated with the undertaking of the activity.
- 21. The holder of the authorisation may apply for an amendment of an EMPr, if such amendment is required before an audit is required. The amendment process is prescribed in Regulation 37 of GN R.982. The holder of the authorisation must request comments on the proposed amendments to the impact management outcomes of the EMPr or amendments to the closure objectives of the closure plan from potentially interested and affected parties, including the competent authority, by using any of the methods provided for in the Act for a period of at least 30 days.

Monitoring

- 22. The holder of the authorisation must appoint an experienced Environmental Control Officer (ECO) for the construction phase of the development that will have the responsibility to ensure that the mitigation/rehabilitation measures and recommendations referred to in this environmental authorisation are implemented and to ensure compliance with the provisions of the approved EMPr.
 - 22.1. The ECO must be appointed before commencement of any authorised activities.
 - 22.2. Once appointed, the name and contact details of the ECO must be submitted to the *Director:*Compliance Monitoring of the Department.
 - 22.3. The ECO must keep record of all activities on site, problems identified, transgressions noted and a task schedule of tasks undertaken by the ECO.
 - 22.4. 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.

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Recording and reporting to the Department

- 23. 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 of the Department.
- 24. The holder of the environmental authorisation must, for the period during which the environmental authorisation and EMPr remain valid, ensure that project compliance with the conditions of the environmental authorisation and the EMPr are audited, and that the audit reports are submitted to the *Director: Compliance Monitoring* of the Department.
- 25. The frequency of auditing and of submission of the environmental audit reports must be as per the frequency indicated in the EMPr, taking into account the processes for such auditing as prescribed in Regulation 34 of GN R. 982.
- 26. The holder of the authorisation must, in addition, submit environmental audit reports to the Department within 30 days of completion of the construction phase (i.e. within 30 days of site handover) and a final environmental audit report within 30 days of completion of rehabilitation activities.
- 27. The environmental audit reports must be compiled in accordance with Appendix 7 of the EIA Regulations, 2014, as amended and must indicate the date of the audit, the name of the auditor and the outcome of the audit in terms of compliance with the environmental authorisation conditions as well as the requirements of the approved EMPr.
- 28. Records relating to monitoring and auditing must be kept on site and made available for inspection to any relevant and competent authority in respect of this development.

Notification to authorities

29. 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, as well as a reference number.

Operation of the activity

30. 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.

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Site closure and decommissioning

31. 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

- 32. The footprint of the development must be limited to the areas required for actual construction works and operational activities.
- 33. A minimum of a 50m no-go buffer zone around the Vlermuisleegte River must be adhered to.
- 34. A minimum of a 30m no-go buffer zone must be adhered to around the identified heritage built structures and graves.
- 35. Permits in terms of Section 35(4) of the National Heritage Resources Act and Chapter II and IV of the Regulations must be applied for and granted prior to commencement, if any of the buildings older than 60 years are altered.
- 36. An archaeologist must be appointed to conduct test excavations and sampling of the archaeological sites in areas where *in situ* gravel will be intersected by foundations, cable trenches and/or access roads.
- 37. A Heritage Management Plan (HMP) inclusive of a Chance Finds Procedure must be developed to manage and protect *in-situ* heritage resources within the development area. This HMP must be submitted to SAHRA prior to the construction phase.
- 38. Areas outside of the footprint, including sensitive areas and buffer areas must be clearly demarcated (using fencing and appropriate signage) before construction commences and must be regarded as "nogo" areas.
- 39. Before the clearing of the site, the appropriate permits must be obtained from the Department of Agriculture, Forestry and Fisheries (DAFF) for the removal of plants listed in the National Forest Act and from the relevant provincial department for the destruction of species protected in terms of the specific provincial legislation. Copies of the permits must be made available to this Department on request.
- 40. An integrated waste management approach must be implemented that is based on waste minimisation and must incorporate reduction, recycling and re-use options. Where solid waste is disposed of, such disposal shall only occur at a landfill licensed in terms of section 20(b) of the National Environment Management Waste Act, 2008 (Act 59 of 2008).

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- 41. 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.
- 42. Appropriate dust suppression techniques must be implemented on all exposed surfaces during periods of high wind. 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.
- 43. Should any archaeological sites, artefacts, paleontological fossils or graves be exposed during construction work, work in the immediate vicinity of the find must be stopped, the South African Heritage Resources Agency (SAHRA) must be informed and the services of an accredited heritage professional obtained for an assessment of the heritage resources must be made.
- 44. The washing of panels during maintenance must be done with biodegradable soaps to avoid soil contamination and poisoning of small animals.
- 45. All disturbed, exposed earth and cleared areas must be rehabilitated with indigenous perennial shrubs and grasses from the local area.
- 46. Construction must include 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.
- 47. Underground cables and internal access roads must be aligned as much as possible along existing infrastructure to limit damage to vegetation and watercourses.
- 48. A firebreak must be maintained around the development footprint to avoid potential fires occurring within the facility from spreading into the surrounding grasslands, subsequently posing a threat to faunal species occurring within the surrounding environment.
- 49. Road borders must be regularly maintained to ensure that vegetation remains short and that they therefore serve as an effective firebreak. No unsupervised open fires for cooking or heating must be allowed on site
- 50. An ecological and faunal walk-through (micro-siting) must be conducted prior to construction to identify species requiring permits for their removal, ensure that the infrastructure does not impact any areas of irreplaceable habitats.

General

51. The recommendations of the EAP in the EIAr dated May 2019 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.

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- 52. A copy of this environmental authorisation, the audit and compliance monitoring reports, and the approved EMPr, must be made available for inspection and copying-
 - 52.1. at the site of the authorised activity;
 - 52.2. to anyone on request; and
 - 52.3. where the holder of the environmental authorisation has a website, on such publicly accessible website.
- 53. 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 authorisation as set out in this document or any other subsequent document emanating from these conditions of authorisation.

Date of environmental authorisation: 30/08/2019

Mr Sabelo Majaza

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 application form received on 26 October 2018.
- b) The information contained in the final EIAr dated May 2019.
- c) The comments received from interested and affected parties as included in the final EIAr dated May 2019.
- d) Mitigation measures as proposed in the final EIAr and the EMPr dated May 2019.
- The information contained in the specialist studies contained within the appendices of the final EIAr dated May 2019.

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.

- The findings of all the specialist studies conducted and their recommended mitigation measures.
- b) The need for the proposed project stems from the provision of electricity to the national grid.
- c) The final ElAr dated May 2019 identified all legislations and guidelines that have been considered in the preparation of the ElAr.
- d) The methodology used in assessing the potential impacts identified in the final EIAr dated May 2019 and the specialist studies have been adequately indicated.
- e) A sufficient public participation process was undertaken and the applicant has satisfied the minimum requirements as prescribed in the EIA Regulations, 2014, as amended for public involvement.

3. Findings

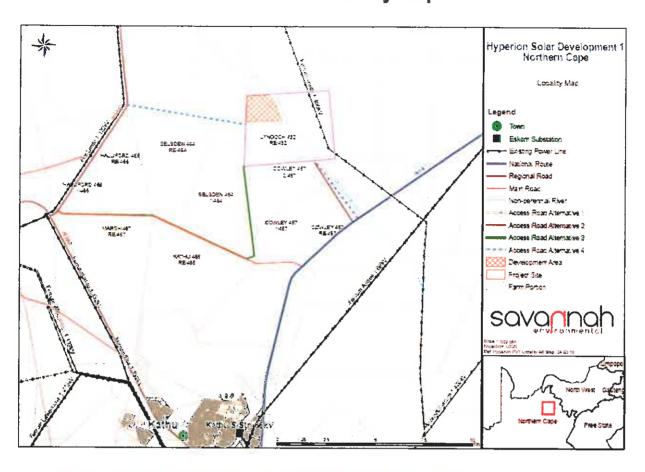
After consideration of the information and factors listed above, the Department made the following findings -

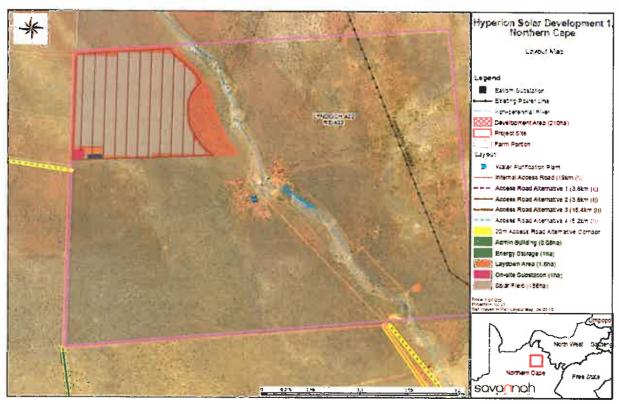
- a) The identification and assessment of impacts are detailed in the EIAr dated May 2019 and sufficient assessment of the key identified issues and impacts have been completed.
- b) The procedure followed for impact assessment is adequate for the decision-making process.
- c) The proposed mitigation of impacts identified and assessed adequately curtails the identified impacts.
- d) EMPr measures for the pre-construction, construction and rehabilitation phases of the development were proposed and included in the EIAr 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 activities 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 activities can be mitigated to acceptable levels. The environmental authorisation is accordingly granted.



Annexure 2: Locality Map







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

DEA Reference: 14/12/16/3/3/2/1110 Enquiries: Mr Thando Booi

Telephone: (012) 399 9387 E-mail: TBooi@environment.gov.za

Matteo Brambilla Cyraguard (Pty) Ltd Postnet Suite 150 Private Bag X3 ROGGEBAAI 8012

Cellphone number:

(060) 605 2848

Email address:

d.pasi@buildingenergy.it

PER E-MAIL / MAIL

Dear Sir/ Madam

ENVIRONMENTAL AUTHORISATION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, ACT NO. 107 OF 1998, GN R982, GN R983 AND GN R984 AS AMENDED, FOR THE CONSTRUCTION OF HYPERION SOLAR DEVELOPMENT 2 WITHIN THE GAMAGARA LOCAL MUNICIPALITY 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 4(2) of the Environmental Impact Assessment Regulations, 2014, as amended (the EIA Regulations), you are instructed to notify all registered interested and affected parties, in writing and within 14 (fourteen) days of the date of the EA, of the Department's decision as well as the provisions regarding the submission of appeals that are contained in the Regulations.

In terms of the Promotion of Administrative Justice Act, Act No. 3 of 2000, you are entitled to the right to fair, lawful and reasonable administrative action; and to written reasons for administrative action that affects you negatively. Further your attention is drawn to the provisions of the Protection of Personal Information Act, Act No. 4 of 2013 which stipulates that the Department should conduct itself in a responsible manner when collecting, processing, storing and sharing an individual or another entity's personal information by holding the Department accountable should the Department abuses or compromises your personal information in any way.

Your attention is drawn to Chapter 2 of National Environmental Management Act, Act No. 107 of 1998 National Appeal Regulations published under Government Notice R993 in Government Gazette No. 38303 dated 08 December 2014 (National Appeal Regulations, 2014), which prescribe the appeal procedure to be followed. Kindly include a copy of this document (National Appeal Regulations, 2014) with the letter of notification to interested and affected parties in this matter.

Should any person wish to lodge an appeal against this decision, he/she must submit the appeal to the appeal administrator, and a copy of the appeal to the applicant, any registered interested and affected party, and any organ of state with interest in the matter within 20 days from the date that the notification of the decision was sent to the registered interested and affected parties by the applicant; or the date that the notification of the decision was sent to the applicant by the Department, whichever is applicable.

Appeals must be submitted in writing in the prescribed form to:

The Director: Appeals and Legal Review of this Department at the below mentioned addresses.

By email: appealsdirectorate@environment.gov.za;

By hand: Environment House

473 Steve Biko

Arcadia Pretoria 0083; or

By post: Private Bag X447

Pretoria 0001

Please note that in terms of Section 43(7) of the National Environmental Management Act, Act No. 107 of 1998, as amended, the lodging of an appeal 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 appealsdirectorate@environment.gov.za.

Yours faithfully

Mr Sabelo Malaza

Chief Director: Integrated Environmental Authorisations

Department of Environmental Affairs

Date: 30/01/2019

Cc	Ms Jo-anne Thomas	Savannah Environmental (Pty) Ltd	Tel: (011) 656 3237	Email: joanne@savannahsa.com
	Bryan Fisher	Northern Cape(DENC)	Tel: (053) 807 7431	Email: BFischer@ncpg.gov.za
	Thusoeng Itumeleng	Gamagara Local Municipality	Tel: (053) 723 6000	Email: clementi@gamagara.gov.za



Environmental Authorisation

In terms of Regulation 25 of the Environmental Impact Assessment Regulations, 2014 as amended

The construction of Hyperion Solar Development 2 within Gamagara Local Municipality in the Northern Cape Province

John Taolo Gaetsewe District Municipality

Authorisation register number:	14/12/16/3/3/2/1110
Last amended:	First issue
Holder of authorisation:	Cyraguard (Pty) Ltd
Location of activity:	Remaining Extent of the Farm Lyndoch 432,
	Portion 1 of the Farm Cowley 457,
	Portion 2 of the Farm Cowley 457
	Remaining extent of the Farm Cowley 457 within ward
	7 of Gamagara Local Municipality, John Taolo
	Gaetsewe District Municipality, Northern Cape Province

This 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, 2014 the Department hereby authorises –

CYRAGUARD (PTY) LTD

with the following contact details -

Matteo Brambilla

Cyraguard (Pty) Ltd

Postnet Suite 150

Private Bag X3

ROGGEBAAI

8012

Cellphone number:

(060) 605 2848

Email address:

d.pasi@buildingenergy.it

to undertake the following activities (hereafter referred to as "the activity") indicated in Listing Notice 1 and Listing Notice 2 as amended (GN R. 983, and 984 as amended):

GN R. 983 Listing Notice 1: Activity 11(i) "The development of facilities or infrastructure for the transmission and distribution of electricity— (i) outside urban areas or industrial complexes with a capacity of more than 33 but less than 275 kV" GN R. 983- Listing Notice 1: Activity 12(ii)(a)(c) "The development of- (ii) infrastructure or structures with a physical footprint of 100m² or more; where such development occurs- (a) within a watercourse; (b) If no development setback line occurs within 32 metres of a watercourse, measured from the edge	of a new
transmission and distribution of electricity— (i) outside urban areas or industrial complexes with a capacity of more than 33 but less than 275 kV" GN R. 983- Listing Notice 1: Activity 12(ii)(a)(c) "The development of- (ii) infrastructure or structures with a physical footprint of 100m² or more; where such development occurs- (a) within a watercourse; (b) In no development setback line occurs within 32 metres of a watercourse, measured from the edge	of a new
(i) outside urban areas or industrial complexes with a capacity of more than 33 but less than 275 kV" GN R. 983- Listing Notice 1: Activity 12(ii)(a)(c) "The development of- (ii) infrastructure or structures with a physical footprint of 100m² or more; where such development occurs- (a) within a watercourse; (c) If no development setback line occurs within 32 metres of a watercourse, measured from the edge	
electricity grid. The on-site substation we capacity of 132kV and is located outside area. GN R. 983- Listing Notice 1: Activity 12(ii)(a)(c) "The development of- (ii) infrastructure or structures with a physical footprint of 100m² or more; where such development occurs- (a) within a watercourse; (b) If no development setback line occurs within 32 metres of a watercourse, measured from the edge	electricity
capacity of 132kV and is located outside area. GN R. 983- Listing Notice 1: Activity 12(ii)(a)(c) "The development of- (ii) infrastructure or structures with a physical footprint of 100m² or more; where such development occurs- (a) within a watercourse; (b) If no development setback line occurs within 32 metres of a watercourse, measured from the edge	national
area. GN R. 983- Listing Notice 1: Activity 12(ii)(a)(c) "The development of- (ii) infrastructure or structures with a physical footprint of 100m² or more; where such development occurs- (a) within a watercourse; (b) If no development setback line occurs within 32 metres of a watercourse, measured from the edge	
"The development of- (ii) infrastructure or structures with a physical footprint of 100m² or more; where such development occurs- (a) within a watercourse; (b) If no development setback line occurs within 32 metres of a watercourse, measured from the edge	an urban
 (ii) infrastructure or structures with a physical footprint of 100m² or more; be directly within the Vlermuisleegte was and will be over 100 square metres. (a) within a watercourse; (be directly within the Vlermuisleegte was and will be over 100 square metres. 	
of 100m² or more; where such development occurs- (a) within a watercourse; (b) If no development setback line occurs within 32 metres of a watercourse, measured from the edge	tive 1 will
where such development occurs- (a) within a watercourse; (c) If no development setback line occurs within 32 metres of a watercourse, measured from the edge	tercourse
 (a) within a watercourse; (c) If no development setback line occurs within 32 metres of a watercourse, measured from the edge 	
(c) If no development setback line occurs within 32 metres of a watercourse, measured from the edge	
metres of a watercourse, measured from the edge	
-	
of the watercourse"	
GN R. 983- Listing Notice 1: Activity 19	
"The infilling or depositing of any material of more than Access road Alternative 1 will be require	d to route
10 cubic metres into, or dredging, excavation, removal or into the Vlermuisleegte River and wa	itercourse
moving of soil, sand, shells, shell grit, pebbles, or rock of crossing will be required to be upgrade	ed and or
more than 10 cubic metres from a watercourse" constructed.	
GN R. 983- Listing Notice 1: Activity 24(ii)	
"The development of a road— The construction of the solar energy to	acility will
(ii) with a reserve wider than 13,5 metres, or where no require the construction and upgradi	ng of an
reserve exists where the road is wider than 8 existing two-tyre track to provide acce	ss to the
metres" facility as well as the construction of ne	w access
roads up to 9m in width.	
GN R. 983- Listing Notice 1: Activity 28(ii) The total area of land to be developed for	
"Residential, mixed, retail, commercial, industrial or energy facility is larger than 1 hectare."	r the solar
institutional developments where such land was used for currently used for agricultural purposes	
extent of the development footprint is 18	The site is

Department of Environmental Affairs Environmental Authorisation Reg. No. 14/12/16/3/3/2/1110

Listed activities	Activity/Project description
agriculture or afforestation on or after 01 April 1998 and	
where such development:	
(ii) will occur outside an urban area, where the total land	
to be developed is bigger than 1 ha;	
excluding where such land has already been developed	
for residential, mixed, retail, commercial, industrial or	
institutional purposes"	
GN R. 983- Listing Notice 1: Activity 48(i)(a)(c)	
"The expansion of-	The upgrading of Access Road Alternative 1 within
(i) infrastructure or structures where the physical	32m and within the Vlermuisleegte River will
footprint is expanded by 100 square metres or	require the widening of the road by 4m for
more;	approximately 2.5km.
where such expansion occurs-	
(a) within a watercourse	
(c) If no development setback line occurs within 32	
metres of a watercourse, measured from the edge	
of the watercourse"	
GN R. 984- Listing Notice 2: Activity 1	
"The development of facilities or infrastructure for the	The project comprises a renewable energy
generation of electricity from a renewable resource	generation facility, which will utilise photovoltaic
where the electricity output is 20 megawatts or more"	(PV) technology and will have a generation
	capacity of up 75MW. The development is located
	outside of an urban area and is proposed to be
	ground-mounted.
GN R. 984-Listing Notice 2: Activity 15	
"The clearance of an area of 20ha or more of indigenous	The project requires the clearance of an area of
vegetation"	up to 180 ha (equivalent to the development
	footprint) of vegetation. The project is proposed on
	an agricultural property where the predominant
	land use is livestock grazing, and is therefore likely
	to compromise indigenous vegetation. The project
	would therefore result in the clearance of an area

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Listed activities	Activity/Project description					
	of land greater than 20ha of indigenous					
	vegetation.					

This EA does not include activities listed under Listing Notice 3: Activity 4(g)(ii)(ee), Activity 12(g)(ii) and Activity 18(g)(ii)(ee) as they are applicable to Alternative 2 and 3. Alternative 1 for the access road is approved for this development.

- as described in the final Environmental Impact Assessment Reports (EIAr) dated May 2019 at:

Hyperion Solar Development 2:

Remaining Extent of the Farm Lyndoch 432;

Portion 1 of the Farm Cowley 457;

Portion 2 of the Farm Cowley 457; and

Remaining Extent of the Farm Cowley 457

21 SG Code:

С	0	4	1	0	0	0	0	0	0	0	0	0	4	3	2	0	0	0	0	0
С	0	4	1	0	0	0	0	0	0	0	0	0	4	5	7	0	0	0	0	1
С	0	4	1	0	0	0	0	0	0	0	0	0	4	5	7	0	0	0	0	2
С	0	4	1	0	0	0	0	0	0	0	0	0	4	5	7	0	0	0	0	0

Development Area Co-ordinates:

	Latitude (S)	Longitude (E)
Start at the northern most point and move clockwise	27°33'3,205" S	23°4'56,863" E
	27°33'4,700" S	23°4'54,737" E
	27°33' 6,459" S	23°4'53,128" E
	27°33'9,355" S	23° 4'51,086" E
	27°33'12,262" S	23°4'49,925" E
	27°33'18,744" S	23°4'48,650" E
	27°33'19,543" S	23°4'48,657" E
	27°33'20,742" S	23°4'48,676" E
	27°33'23,003" S	23°4'48,938" E
	27°33'25,986" S	23°4'49,765" E
	27°33' 30,074" S	23°4'52,041" E
	27°33'32,549" S	23°4'54,293" E
	27°33'34,375" S	23°4'57,085" E
	27°33'35,509" S	23°4'59,658" E
	27°33'40,808" S	23° 3' 47,048" E

Preferred (Access Road) Alternative 1 Co-ordinates:

	Latitude (S)	Longitude (E)
Start (intersection to the N14)	27°35'47.55"S	23°07'19.27"E
Middle	27°34'59.28"S	23°06'39.12"E
End (perimeter road)	27°34'11.15"S	23°05'58.79"E

- for the proposed construction of the Hyperion Solar Development 2 within Gamagara Local Municipality in the Northern Cape Province, hereafter referred to as "the property".

The infrastructure associated with this facility includes:

- Arrays of PV panels (static or tracking PV system) with a contracted capacity of up to 75MW;
- Mounting structures to support the PV panels;
- On-site inverters (to convert the power from Direct Current (DC) to Alternating Current (AC) and distribution power transformers;
- An on-site substation to facilitate the connection between the project and the Eskom electricity grid;

- Cabling between the project's components (to be laid underground where practical);
- Battery storage mechanism with a storage capacity of up to 300MWh;
- Water purification plant;
- Site offices and maintenance buildings, including workshop areas for maintenance and storage;
- Temporary laydown area up to 1ha in extent;
- Batching plant;
- Internal access roads, perimeter road and fencing around the development area; and
- Main access road to the site development area utilising Access Road Alternative 1.

Planned infrastructure proposed as part of Hyperion Solar Development 2:

Infrastructure	Dimensions/ Details
Solar Facility	- Photovoltaic (PV) technology.
-	- Solar panels up to 6m in height.
	- Fixed-tilt, single-axis tracking, or dual-axis (double-axis) tracking
	systems.
	- On-site inverters (to convert the power from DC to AC), and power
	transformers.
	- PV structures / modules up to 152ha in extent (depending on the
	type of support structure selected for implementation (i.e. static vs
	tracking).
Energy Storage	- Up to 1ha in extent.
	- Storage capacity of up to 300MWh.
	- Batteries will be stored in battery storage units.
Supporting Infrastructure	- On-site buildings and structures, including a maintenance building
	and office building, ablutions and guard house and security building
	to occupy an area up to 0.05ha in extent.
	- Perimeter security fencing and access gates up to 3m in height.
	- Temporary laydown area up to 1.6ha in extent, for the storage of
	materials during the construction.
	- Batching plant, to be located within the laydown area.
On-site substation	- On-site substation with a 132kV capacity.
	- Will occupy an area up to 1ha in extent

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Infrastructure	Dimensions/ Details
Access road	
7,00005 FORG	main access road alternatives are being
	considered however alternative 1 is approved.
	Alternative 1 – The upgrade of approximately 3.6km of the existing
	T26 gravel road situated between the project site and the N14. The
	existing road will be upgraded from approximately 5m to 9m in width.
	- Internal access road – 6m wide and approximately 19.5km in length
	(to be gravel).
	- Perimeter road – The use of the existing perimeter road 6m in width
	and approximately 7.4km in length.
Water Supply	- Approximately 10 000m³ of water is required over a 12 month period
	during construction.
	 Approximately 50 000m³ of water per year is required for operation
	(25 years). Water will be sourced from three existing boreholes
	located on the property during construction and operation.
	- The following water supply option is currently being considered:
	O Water will be sourced from three existing boreholes located on the
	property during construction and operation. A water purification
	plant may be installed to purify the borehole water to potable
	standards. The purification plant will be located adjacent to the
	existing boreholes.
Services required.	- Refuse material disposal - all refuse material generated from the
	proposed development will be collected by a private contractor and
	will be disposed of at a licensed waste disposal site off site. This
	service will be arranged with the municipality when required.
	Sanitation – during construction chemical toilets will be used and will
	be emptied by the municipality. During operation, the facility will
2	utilise conservancy tanks. A contractor will be appointed to empty
	the tanks and to dispose of the sewage at a licensed waste disposal
	site.
	Water supply – water will be sourced from up to three existing
Ō	boreholes located on the property. If required, these boreholes will
	be licensed with the Department of Water and Sanitation (DWS)
1	post preferred bidder status.

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Infrastructure	Dimensions/ Details
	- Electricity supply - agreements with the Gamagara Local
	Municipality will be established for the supply of electricity to the PV
	facility.

Conditions of this Environmental Authorisation

Scope of authorisation

- 1. The proposed construction of the Hyperion Solar Development 2 within Gamagara Local Municipality in the Northern Cape Province is hereby approved as per the geographic coordinates indicated above.
- 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 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 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 authorisation to apply for further environmental authorisation in terms of the regulations.
- 6. The holder of an environmental authorisation must apply for an amendment of the 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.
- 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 authorisation lapses and a new application for environmental authorisation must be made in order for the activity to be undertaken.
- 8. Commencement with one activity listed in terms of this environmental authorisation constitutes commencement of all authorised activities.



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 14 (fourteen) 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 authorisation was issued;
 - 10.2. inform the interested and affected party of the appeal procedure provided for in the National Appeal Regulations, 2014;
 - 10.3. advise the interested and affected party that a copy of the authorisation will be furnished on request; and
 - 10.4. give the reasons of the Competent Authority for the decision.

Commencement of the activity

11. The authorised activity shall not commence until the period for the submission of appeals has lapsed as per the National Appeal Regulations, 2014, and no appeal has been lodged against the decision. In terms of Section 43(7), an appeal under Section 43 of the National Environmental Management Act, Act No. 107 of 1998, as amended 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.

Management of the activity

- 12. The layout plan titled "Hyperion Solar Development 2, Northern Cape Environmental Sensitivity and Combined Layout Map" and appended to the final ElAr dated May 2019 as Appendix N is hereby approved.
- 13. The EMPr compiled by Savannah Environmental (Pty) Ltd and appended to the final EIAr dated May 2019 as Appendix K is hereby approved and must be implemented and adhered to.
- 14. Furthermore, a shapefile of the approved 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

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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

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

Frequency and process of updating the EMPr

- 15. Changes to the approved EMPr must be submitted in accordance to the EIA Regulations applicable at the time.
- 16. The Department reserves the right to amend the approved EMPr should any impacts that were not anticipated or covered in the EIAr be discovered.
- 17. The EMPr must be updated where the findings of the environmental audit reports, contemplated in Condition 25 below, indicate insufficient mitigation of environmental impacts associated with the

- undertaking of the activity, or insufficient levels of compliance with the environmental authorisation or EMPr.
- 18. The updated EMPr must contain recommendations to rectify the shortcomings identified in the environmental audit report.
- 19. The updated EMPr must be submitted to the Department for approval together with the environmental audit report, as per Regulation 34 of GN R. 982. The updated EMPr must have been subjected to a public participation process, which process has been agreed to by the Department, prior to submission of the updated EMPr to the Department for approval.
- 20. In assessing whether to grant approval of an EMPr which has been updated as a result of an audit, the Department will consider the processes prescribed in Regulation 35 of GN R.982. Prior to approving an amended EMPr, the Department may request such amendments to the EMPr as it deems appropriate to ensure that the EMPr sufficiently provides for avoidance, management and mitigation of environmental impacts associated with the undertaking of the activity.
- 21. The holder of the authorisation may apply for an amendment of an EMPr, if such amendment is required before an audit is required. The amendment process is prescribed in Regulation 37 of GN R.982. The holder of the authorisation must request comments on the proposed amendments to the impact management outcomes of the EMPr or amendments to the closure objectives of the closure plan from potentially interested and affected parties, including the competent authority, by using any of the methods provided for in the Act for a period of at least 30 days.

Monitoring

- 22. The holder of the authorisation must appoint an experienced Environmental Control Officer (ECO) for the construction phase of the development that will have the responsibility to ensure that the mitigation/rehabilitation measures and recommendations referred to in this environmental authorisation are implemented and to ensure compliance with the provisions of the approved EMPr.
 - 22.1. The ECO must be appointed before commencement of any authorised activities.
 - 22.2. Once appointed, the name and contact details of the ECO must be submitted to the *Director:*Compliance Monitoring of the Department.
 - 22.3. The ECO must keep record of all activities on site, problems identified, transgressions noted and a task schedule of tasks undertaken by the ECO.
 - 22.4. 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.

Recording and reporting to the Department

- 23. 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 of the Department.
- 24. The holder of the environmental authorisation must, for the period during which the environmental authorisation and EMPr remain valid, ensure that project compliance with the conditions of the environmental authorisation and the EMPr are audited, and that the audit reports are submitted to the *Director: Compliance Monitoring* of the Department.
- 25. The frequency of auditing and of submission of the environmental audit reports must be as per the frequency indicated in the EMPr, taking into account the processes for such auditing as prescribed in Regulation 34 of GN R. 982.
- 26. The holder of the authorisation must, in addition, submit environmental audit reports to the Department within 30 days of completion of the construction phase (i.e. within 30 days of site handover) and a final environmental audit report within 30 days of completion of rehabilitation activities.
- 27. The environmental audit reports must be compiled in accordance with Appendix 7 of the EIA Regulations, 2014, as amended and must indicate the date of the audit, the name of the auditor and the outcome of the audit in terms of compliance with the environmental authorisation conditions as well as the requirements of the approved EMPr.
- 28. Records relating to monitoring and auditing must be kept on site and made available for inspection to any relevant and competent authority in respect of this development.

Notification to authorities

29. 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, as well as a reference number.

Operation of the activity

30. 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

31. 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

- 32. The footprint of the development must be limited to the areas required for actual construction works and operational activities.
- 33. A minimum of a 50m no-go buffer zone around the Viermuisleegte River must be adhered to.
- 34. A minimum of a 30m no-go buffer zone must be adhered to around the identified heritage built structures and graves.
- 35. Permits in terms of Section 35(4) of the National Heritage Resources Act and Chapter II and IV of the Regulations must be applied for and granted prior to commencement, if any of the buildings older than 60 years are altered.
- 36. An archaeologist must be appointed to conduct test excavations and sampling of the archaeological sites in areas where *in situ* gravel will be intersected by foundations, cable trenches and/or access roads..
- 37. A Heritage Management Plan (HMP) inclusive of a Chance Finds Procedure must be developed to manage and protect in-situ heritage resources within the development area. This HMP must be submitted to SAHRA prior to the construction phase.
- 38. Areas outside of the footprint, including sensitive areas and buffer areas must be clearly demarcated (using fencing and appropriate signage) before construction commences and must be regarded as "nogo" areas.
- 39. Before the clearing of the site, the appropriate permits must be obtained from the Department of Agriculture, Forestry and Fisheries (DAFF) for the removal of plants listed in the National Forest Act and from the relevant provincial department for the destruction of species protected in terms of the specific provincial legislation. Copies of the permits must be made available to this Department on request.
- 40. An integrated waste management approach must be implemented that is based on waste minimisation and must incorporate reduction, recycling and re-use options. Where solid waste is disposed of, such disposal shall only occur at a landfill licensed in terms of section 20(b) of the National Environment Management Waste Act, 2008 (Act 59 of 2008).

- 41. 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.
- 42. Appropriate dust suppression techniques must be implemented on all exposed surfaces during periods of high wind. 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.
- 43. Should any archaeological sites, artefacts, paleontological fossils or graves be exposed during construction work, work in the immediate vicinity of the find must be stopped, the South African Heritage Resources Agency (SAHRA) must be informed and the services of an accredited heritage professional obtained for an assessment of the heritage resources must be made.
- 44. The washing of panels during maintenance must be done with biodegradable soaps to avoid soil contamination and poisoning of small animals.
- 45. All disturbed, exposed earth and cleared areas must be rehabilitated with indigenous perennial shrubs and grasses from the local area.
- 46. Construction must include 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.
- 47. Underground cables and internal access roads must be aligned as much as possible along existing infrastructure to limit damage to vegetation and watercourses.
- 48. A firebreak must be maintained around the development footprint to avoid potential fires occurring within the facility from spreading into the surrounding grasslands, subsequently posing a threat to faunal species occurring within the surrounding environment.
- 49. Road borders must be regularly maintained to ensure that vegetation remains short and that they therefore serve as an effective firebreak. No unsupervised open fires for cooking or heating must be allowed on site
- 50. An ecological and faunal walk-through (micro-siting) must be conducted prior to construction to identify species requiring permits for their removal, ensure that the infrastructure does not impact any areas of irreplaceable habitats.

General

51. The recommendations of the EAP in the EIAr dated May 2019 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.

- 52. A copy of this environmental authorisation, the audit and compliance monitoring reports, and the approved EMPr, must be made available for inspection and copying-
 - 52.1. at the site of the authorised activity;
 - 52.2. to anyone on request; and
 - 52.3. where the holder of the environmental authorisation has a website, on such publicly accessible website.
- 53. 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 authorisation as set out in this document or any other subsequent document emanating from these conditions of authorisation.

Date of environmental authorisation: 30/08/2019

Mr Sabelo Majaza

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 application form received on 26 October 2018.
- b) The information contained in the final EIAr dated May 2019.
- c) The comments received from interested and affected parties as included in the final EIAr dated May 2019.
- d) Mitigation measures as proposed in the final EIAr and the EMPr dated May 2019.
- e) The information contained in the specialist studies contained within the appendices of the final EIAr dated May 2019.

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) The findings of all the specialist studies conducted and their recommended mitigation measures.
- b) The need for the proposed project stems from the provision of electricity to the national grid.
- c) The final EIAr dated May 2019 identified all legislations and guidelines that have been considered in the preparation of the EIAr.
- d) The methodology used in assessing the potential impacts identified in the final EIAr dated May 2019 and the specialist studies have been adequately indicated.
- e) A sufficient public participation process was undertaken and the applicant has satisfied the minimum requirements as prescribed in the EIA Regulations, 2014, as amended 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 EIAr dated May 2019 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) EMPr measures for the pre-construction, construction and rehabilitation phases of the development were proposed and included in the EIAr 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 activities 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 activities can be mitigated to acceptable levels. The environmental authorisation is accordingly granted.



Annexure 2: Locality Map

