PAGE

UPILANGA PV2 AND ASSOCIATED INFRASTRUCTURE, NORTHERN CAPE

COMMENTS AND RESPONSES REPORT

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The Upilanga PV2 and Associated Infrastructure Basic Assessment Process was announced on Tuesday, 10 July 2020. The announcement letter served to invite Interested and Affected Parties (I&APs) to register their interest in the project and to submit any comments / queries that they might have. The Basic Assessment (BA) Report availability a 30-day review and comment period were announced on 03 August 2020 and the review and comment period was from **Monday**, **03 August 2020** until **Friday**, **04 September 2020**. All written comments received during the BA process announcement and during the 30-day review and comment period of the BAR have been included in the table below.

A <u>Revised</u> Basic Assessment Report (BAR) has been made available for a 30-day review and comment period from **Wednesday**, **11 November 2020** until **Friday**, **11 December 2020**. The Comments and Responses Report (C&RR) will be updated with comments received during the review and comment period of the <u>Revised</u> BAR and included in Appendix C6 of the final Basic Assessment Report.

NOTE:

In terms Regulation 44(1) of the EIA Regulations 2014, as amended, please note that the comments raised and responses provided at the various Focus Group Meetings held during the 30-day review period of the Scoping Report has not been captured in this Comments and Responses Report. The notes of the meetings are attached as **Appendix C7**.

LIST OF ABBREVIATIONS / ACRONYMS

BA	Basic Assessment	C&R	Comments and response
C&RR	Comments and Responses Report	DEFF	Department of Environment, Forestry and Fisheries
I&APs	Interested and Affected Parties	EA	Environmental Authorisation
EMPr	Environmental Management Programme	NC DAEARD	Northern Cape Department of Agriculture, Environmental
		& LR	Affairs, Rural Development and Land Reform
NEMA	National Environmental Management Act	NHRA	National Heritage Resources Act
SA CAA	South African Civil Aviation Authority	SAHRIS	South African Heritage Resources Information System
SARAO	South African Radio Astronomy Observatory		·

1. COMMENTS RECEIVED DURING BASIC ASSESSMENT ANNOUNCEMENT PHASE

1.1. Organs of State

О.	COMMENT	RAISED BY	RESPONSE
•	Please find attached Eskom general requirements for works at or near Eskom infrastructure. Please also find the setbacks requirements guideline for consideration during the planning phase. Please send me KMZ files of the affected properties, proposed layouts and proposed grid connection.	John Geeringh Snr Consultant Environmental Management: Land and Rights	Eskom's comments were acknowledged and forwarded to the project team for attention. The requested .KMZ file was e-mailed on 14 July 2020 (proof included in Appendix C6 of the BAR).
	 Content of Eskom's General Requirements letter dated 24 February 2020 Eskom's rights and services must be acknowledged and respected at all times. Eskom's rights and services must be acknowledged and respected at all times. 	Eskom Holdings SOC Ltd E-mail: 10 July 2020	The EAP acknowledges the comment from Eskom. The project developer has been informed of Eskom's requirements as per these comments.
	3. Eskom's consent does not relieve the developer from obtaining the necessary statutory, land owner or municipal approvals.		
	4. Any cost incurred by Eskom as a result of non- compliance to any relevant environmental legislation will be charged to the developer.		
	5. If Eskom has to incur any expenditure in order to comply with statutory clearances or other regulations as a result of the developer's activities or because of the presence of his equipment or installation within the servitude restriction area, the developer shall pay such costs to Eskom on demand.		
	6. The use of explosives of any type within 500 metres of Eskom's services shall only occur with Eskom's previous written permission. If such permission is granted the developer must give at least fourteen working days prior notice of the commencement of blasting. This allows time for arrangements to be made for supervision and/or		

NO.	COMMENT	RAISED BY	RESPONSE
	precautionary instructions to be issued in terms of the blasting process. It is advisable to make application separately in this regard.		
	7. Changes in ground level may not infringe statutory ground to conductor clearances or statutory visibility clearances. After any changes in ground level, the surface shall be rehabilitated and stabilised so as to prevent erosion. The measures taken shall be to Eskom's satisfaction.		
	8. Eskom shall not be liable for the death of or injury to any person or for the loss of or damage to any property whether as a result of the encroachment or of the use of the servitude area by the developer, his/her agent, contractors, employees, successors in title, and assignees. The developer indemnifies Eskom against loss, claims or damages including claims pertaining to consequential damages by third parties and whether as a result of damage to or interruption of or interference with Eskom's services or apparatus or otherwise. Eskom will not be held responsible for damage to the developer's equipment.		
	9. No mechanical equipment, including mechanical excavators or high lifting machinery, shall be used in the vicinity of Eskom's apparatus and/or services, without prior written permission having been granted by Eskom. If such permission is granted the developer must give at least seven working days' notice prior to the commencement of work. This allows time for arrangements to be made for supervision and/or precautionary instructions to be issued by the relevant Eskom Manager.		

NO.	COMMENT	RAISED BY	RESPONSE
	Note: Where and electrical outage is required, at least fourteen work days are required to arrange it.		
	10. Eskom's rights and duties in the servitude shall be accepted as having prior right at all times and shall not be obstructed or interfered with.		The EAP acknowledges the comment from Eskom. The project developer has been informed of Eskom's requirements as per these comments.
	 Under no circumstances shall rubble, earth or other material be dumped within the servitude restriction area. The developer shall maintain the area concerned to Eskom's satisfaction. The developer shall be liable to Eskom for the cost of any remedial action which has to be carried out by Eskom. 		The EAP acknowledges the comment from Eskom. The project developer has been informed of Eskom's requirements as per these comments and has been addressed within the EMPr for the development.
	12. The clearances between Eskom's live electrical equipment and the proposed construction work shall be observed as stipulated by Regulation 15 of the Electrical Machinery Regulations of the Occupational Health and Safety Act, 1993 (Act 85 of 1993).		The EAP acknowledges the comment from Eskom. The project developer has been informed of Eskom's requirements as per these comments.
	13. Equipment shall be regarded electrically live and therefore dangerous at all times.		
	14. In spite of the restrictions stipulated by Regulation 15 of the Electrical Machinery Regulations of the Occupational Health and Safety Act, 1993 (Act 85 of 1993), as an additional safety precaution, Eskom will not approve the erection of houses, or structures occupied or frequented by human beings, under the power lines or within the servitude restriction area.		
	 Eskom may stipulate any additional requirements to highlight any possible exposure to Customers or Public to coming into contact or be exposed to any dangers of Eskom plant. It is required of the developer to familiarise himself with 		
	all safety hazards related to Electrical plant.		

NO.	COMMENT	RAISED BY	RESPONSE
	17. Any third party servitudes encroaching on Eskom		
	servitudes shall be registered against Eskom's title deed		
	at the developer's own cost. If such a servitude is		
	brought into being, its existence should be endorsed		
	on the Eskom servitude deed concerned, while the		
	third party's servitude deed must also include the rights		
	of the affected Eskom servitude.		

2. COMMENTS RECEIVED DURING BASIC ASSESSMENT REPORT REVIEW PERIOD

2.1. Organs of State

NO.	COMMENT	RAISED BY	RESPONSE
1.	There is a SACAA process whereby permission is applied for	Lizell Ströh	The .KMZ files for the Upilanga Solar Park and PV1 and PV2
	wrt obstacles which could pose an aviation hazard. More	Obstacle Inspector	development sites were provided on 05 August 2020.
	information can be obtained at <u>http://www.caa.co.za</u> .	PANS-OPS Section	
	Click on information for industry 'Obstacles' on the LHS.	Air Navigation	The power line connections for PV1 and PV2 are also shown on
	Forms, Part 139-27 and submit on the form itself.	Services Department	this KMZ, and will be underground cabling connecting to the
		Sacaa	authorised CSP sites 1.3 & 1.4.
	• Kindly provide a .kml (Google Earth) file reflecting the		
	footprint of the proposed development site including the	E-Mail: 03 August	The information provided by the SA CAA regarding application
	proposed overhead electric power line route that will	2020	for obstacles which could pose an aviation hazard is forwarded
	evacuate the generated power to the national grid.		to the applicant for their attention. They will be responsible for
	• Also indicate the highest structure of the project & the		the submission of this application once the project proceeds to
	Overhead electric power transmission line.		final design.
	Please follow up with the Inspectorate if more information is		
	required.		
2.	Water use authorisation to be applied for where necessary	Pieter Ackerman	The EAP acknowledges the comment from DWS. The relevant
	using DWS Regional Office as entry and exit.	Chief Landscape	water uses for the project will be applied for prior to
		Architect	commencement of construction.
		DWS	

NO.	COMMENT	RAISED BY	RESPONSE
		E-mail: 04 August 2020	
3.	 a) Listed Activities (i) Please ensure that all relevant listed activities are applied for, are specific and can be linked to the development activity or infrastructure as described in the project description. Only activities applicable to the development must be applied for and assessed. 	Thabile Sangweni Case Officer DEFF Letter: 31 August 2020	The EAP acknowledges the comment from DEFF. Only activities associated with the proposed PV facility and associated infrastructure have been applied for and assessed within the application and the basic assessment report.
	(ii) If the activities applied for in the application form differ from those mentioned in the final BAR, an amended application form must be submitted. Please note that the Department's application form template has been amended and can be downloaded from the following link https://www.environment.gov.za/documents/forms.		Should any activities differ in the final BAR, an amended application form will be submitted.
	(iii) It is imperative that the relevant authorities are continuously involved throughout the basic assessment process as the development property possibly falls within geographically designated areas in terms of numerous GN R. 985 Activities. Written comments must be obtained from the relevant authorities and submitted to this Department. In addition, a graphical representation of the proposed development within the respective geographical areas must be provided.		Continuous communication with Authorities such as Northern Cape Department of Agriculture, Environmental Affairs, Rural Development and Land Reform, DWS, DEFF: Biodiversity Directorate, SAHRIS and SARAO has been undertaken from the inception of the public participation and basic assessment process. These comments have been documented and responded to within this comments and responses report and will be submitted to DEFF within the Final BAR.
	 b) Layout & Sensitivity Maps (i) Please provide a layout map which indicates the following:		 (i) a) An updated layout has been provided within Appendix M of the revised BAR depicting the proposed PV 1 in relation to PV2. PV1 & PV2 are also indicated on the Renewable Energy

NO.	COMMENT	RAISED BY	RESPONSE
	 b) The proposed grid infrastructure for each of the above PV facilities. overlain by the sensitivity map; c) All supporting onsite infrastructure e.g. roads 		Development Zone (REDZ) Map and the Upilanga Solar Park map included within Appendix M of the Basic Assessment Report. b) The proposed grid infrastructure i.e. "underground cable
	(existing and proposed); d) The location of sensitive environmental features on site e.g. CBAs, heritage sites, wetlands,		connection" of PV2 to the authorised llanga CSP site 1.3. has been detailed on the sensitivity map included within Appendix M.
	drainage lines etc. that will be affected; e) Buffer areas; and, all "no-go" areas. (ii) The above map must be overlain with a sensitivity map and a cumulative map which shows		 c) All supporting infrastructure i.e. the grid connection and access roads (existing and proposed) has been detailed on the sensitivity map for the PV2 facility included within Appendix M.
	neighbouring renewable energy developments and existing grid infrastructure. (iii) Google maps will not be accepted.		 d) A full sensitivity map highlighting areas of ecological sensitivity and watercourses that will be affected by PV2 is included within Appendix M. e) No applicable buffers or no-go zones were identified by
			specialists for PV2. The secondary alluvial watercourse was classified to be of medium sensitivity. Buffer zone were recommended by the aquatic specialist for any areas identified as high sensitivity.
			(ii) A cumulative sensitivity map has been included within Appendix M. The cumulative impacts of other renewable energy facilities in the area has been assessed within the report (refer to Section 8 of the report).
			(iii) The EAP acknowledges the comment from DEFF. Formal maps have been compiled and included in the report.
	 c) <u>Alternatives</u> (i) Please note that you are required to provide a full description of the process followed to reach the 		(i)
	proposed preferred alternative within the site, in terms of Appendix 1(3)(1)(h) of the EIA Regulations 2014, as amended, including the following content:		a) Chapter 3 of the basic assessment report "Project Description and Alternatives" includes details of alternatives considered for the project.

NO.	COMMEN	T	RAISED BY	RE	SPONSE
	a)	details of all the alternatives considered;		b)	Detailed of the public participation process undertaken are
	b)	details of the public participation process			included in Section 5 of the report and in Appendix B to
		undertaken in terms of regulation 41 of the			Appendix C9 of the basic assessment report. This has been
		Regulations, including copies of the supporting			undertaken in accordance with the public participation
		documents and inputs;			plan followed as approved by DEFF (refer to Appendix C9).
	C)	a summary of the issues raised by interested and		C)	The Comments and Responses report (Appendix C8)
		affected parties, and an indication of the			includes issues raised to date on the project. All
		manner in which the issues were incorporated,			correspondence with Authorities, Stakeholders, Organs of
		or the reasons for not including them;			State and Interested & Affected Parties has been included
	d)	the environmental attributes associated with			within Appendices C4- C6 of the basic assessment report.
		the alternatives focusing on the geographical,		d)	Environmental attributes associated with the identified
		physical, biological, social, economic, heritage			preferred alternatives have been described and assessed
		and cultural aspects;			within the basic assessment report, Chapters 6 to 8, and
	e)	the impacts and risks identified for each			assessed within each of the specialist studies appended to
		alternative, including the nature, significance,			the basic assessment report.
		consequence, extent, duration and probability		e)	The impacts and risks of the identified preferred alternatives
		of the impacts, including the degree to which			has been assessed within Chapters 7 and 8 of the BA report
		these impacts—			and within the specialist reports.
		(aa) can be reversed;		f)	The methodology used in determining and ranking the
		(bb) may cause irreplaceable loss of resources;			nature, significance, consequences, extent, duration and
		and			probability of potential environmental impacts and risks
		(cc) can be avoided, managed or mitigated.			associated with the preferred project alternatives is included
	f)	the methodology used in determining and			in Chapter 5 of the BA Report.
		ranking the nature, significance,		g)	The assessment of positive and negative impacts that the
		consequences, extent, duration and probability			proposed activity and alternatives will have on the
		of potential environmental impacts and risks			environment and on the community that may be affected
		associated with the alternatives;			focusing on the geographical, physical, biological, social,
	g)	positive and negative impacts that the			economic, heritage and cultural aspects is included in
		proposed activity and alternatives will have on			Chapters 7 and 8 of the BA Report.
		the environment and on the community that		h)	Chapter 7 of the basic assessment report includes
		may be affected focusing on the geographical,			recommended mitigation measures and the level of residual
				1	risk associated with each identified impact.

).	COMMENT	RAISED BY	RESPONSE
	 physical, biological, social, economic, heritage and cultural aspects; h) the possible mitigation measures that could be applied and level of residual risk; i) the outcome of the site selection matrix; j) if no alternatives, including alternative locations for the activity were investigated, the motivation for not considering such; and k) a concluding statement indicating the preferred alternatives, including preferred location of the activity. (ii) Written proof of an investigation and motivation if no reasonable or feasible alternatives exist in terms of Appendix 1. d) Specialist Declaration of Interest (i) Specialist Declaration of Interest forms must be attached to the final BAR. You are therefore requested to submit original signed Specialist beclaration of Interest forms for each specialist study conducted. The forms are available on Department's website (please use the Department's tamplate) 		 i) The outcome of the site selection process undertaken for the identification of the broader study and development area is included in section 3.3 of the basic assessment report. j) A motivation for not considering alternative development locations is included in section 3.2.2.1 of the basic assessment report. k) A concluding statement indicating the preferred alternatives, including the preferred location of the activity is included in section 3.2.2.1 and 3.2.2 of the basic assessment report. (ii) Chapter 3 of the basic assessment report provides details of feasible alternatives identified and assessed for the project. Specialist Declarations will be submitted to DEFF with the Final Basic Assessment report.
	 template). Specialist Assessments (i) The Ecology Impact Assessment report by 3Foxes Biodiversity Solutions (Simon Todd) annexed as Appendix D is noted. As is the requirement of an offset necessitated by the anticipated loss of more than 3000 Boscia albitrunca individual species, which far exceeds the guideline amount of trees that this Department finds acceptable for loss without an offset. 		 (i) An offset analysis for this species has been undertaken to investigate the need and quantum of an offset to account for the loss of individuals from the current and other proposed Upilanga PV facilities. Refer to Appendix D1 of the Revised Basic Assessment report. (ii) An offset plan has been compiled and is included in Appendix D1of the Revised BA Report. (iii) The applicant has agreed to commit to the offset following liaison and agreement on the quantum of the

NO.	COMMENT	RAISED BY	RESPONSE
	(ii) As such, this Department requires that a biodiversity		offset to account for the loss of individuals from the
	offset plan detailing all necessary information which		current and other proposed Upilanga PV facilities prior to
	will include inter alia the total loss of biodiversity		commencement of construction. It is however only
	versus the net gain, where the loss will occur and		possible to enter into a legal agreement on the offset
	where it will be replaced, be provided in order to		once the project is certain to proceed (i.e. following
	able to make an informed decision on the		securing of a PPA or Preferred Bidder Status). An In-
	application.		principle agreement has been drafted and signed by the
	(iii) Furthermore, this Department requires that legal		applicant to solidify the intention to enter into this legal
	agreements between the applicant and the		agreement at the relevant time. This is included in
	management authority that will manage the offset		Appendix D2 of the Revised BA Report.
	area be signed before a decision can be made on		(iv) The offset plan and revised Basic Assessment report has
	the application.		been circulated to the DENC and the DEFF's Protected
	(iv) This Department will be guided by colleagues from		Area Management and Biodiversity & Conservation unit
	this Department's Protected Area Management		for review and comment. Further to this individual
	and Biodiversity & Conservation units, as well as the		meetings and site visits will be arranged with these
	DENC on the offset process. As such, the EAP must		authorities to discuss and agree on the way forward for
	ensure that all documents related to this project are		the offset plan.
	also submitted to these commenting authorities.		(v) The specialist studies (Appendix D-J) contain detailed
	(v) Specialist studies to be conducted must provide a		descriptions of the methodologies used within each
	detailed description of their methodology, as well as		report. All infrastructure for the PV development has
	all other associated infrastructures that they have		been assessed within the specialist reports.
	assessed and are recommending for the		(vi) All specialist studies (refer to Appendix D-J) contain
	authorisation.		detailed descriptions of the limitations and gaps.
	(vi) The specialist studies must also provide a detailed		(vii) No contradicting recommendations were provided by
	description of all limitations to their studies. All		the specialist studies for the PV facility and associated
	specialist studies must be conducted in the right		infrastructure.
	season and providing that as a limitation, will not be		(viii) As per the DEA Screening tool assessment no Electro
	accepted.		Magnetic Interference (EMI) or Radio Frequency
	(vii) Should the appointed specialists specify		Interference (RFI) were required for the project. SKA was
	contradicting recommendations, the EAP must		identified as a stakeholder and provided with the basic
	clearly indicate the most reasonable		assessment report. The comment received from SARO on
	recommendation and substantiate this with		

NO.	COMMENT	RAISED BY	RESPONSE
	defendable reasons; and were necessary, include further expertise advice. (viii) An indication if Electro Magnetic Interference (EMI) and Radio Frequency Interference (RFI) studies are needed. Furthermore, comments from the SKA		behalf of SKA is included in this comments and responses report and within Appendix C6 of the revised BA Report.
	 office regarding this must be sought. f) Cumulative Assessment (i) Should there be any other similar projects within a 30km radius of the proposed development site, the cumulative impact assessment for all identified and assessed impacts must be refined to indicate the following: (a) Identified cumulative impacts must be clearly defined, and where possible the size of the identified impact must be quantified and indicated, i.e. hectares of cumulatively transformed land. (b) Detailed process flow and proof must be provided, to indicate how the specialist's recommendations, mitigation measures and conclusions from the various similar developments in the area were taken into consideration in the assessment of cumulative impacts and when the conclusion and mitigation measures were drafted for this project. (c) The cumulative impacts significance rating must also inform the need and desirability of the proposed development. (d) A cumulative impact environmental statement on whether the proposed development must proceed. 		 (i) Chapter 8 of the basic assessment report includes an assessment of potential cumulative impacts associated with the proposed project and other similar developments within a 30km radius of the site. a) Cumulative impacts have been clearly defined within each specialist report and within Chapter 8 of the basic assessment report. b) The methodology on how the specialists determined the relevant recommendations, mitigation measures and conclusions regarding cumulative impacts is included within the individual specialists reports for the project included in Appendix D to J. c) The significance ratings provided in Chapter 8 of the basic assessment report (Assessment of Potential Cumulative Impacts) inform the conclusions and recommendations that inform the need and desirability of the project. d) A cumulative impact environmental statement is included in Chapter 8, Section 8.12 of the basic assessment report.

NO.	CO	MMENT	RAISED BY	RESPONSE
	g)	Undertaking of an Oath		The undertaking of the affirmation by EAP has been included as
		(i) The Department has noted that the submitted		Appendix N to the Revised Basic Assessment report.
		application form has an undertaking under oath or		
		affirmation by the EAP. However, the		
		aforementioned oath was not included in the draft		
		BAR, but rather an appendix of the application form		
		attached to the BAR. Please note that the final BAR		
		must also have an undertaking under oath/affirmation by the EAP.		
		(ii) Based on the above, you are therefore required to		
		include an undertaking under oath or affirmation by		
		the EAP (administered by a Commissioner of Oaths)		
		as per Appendix 1 (3) (r) of the NEMA EIA Regulations,		
		2014, as amended, which states that the BAR must		
		include:		
		"an undertaking under oath or affirmation by the		
		EAP in relation to:		
		 a) the correctness of the information provided in the reports; 		
		b) the inclusion of comments and inputs from stakeholders and I&APs		
		c) the inclusion of inputs and recommendations		
		from the specialist reports where relevant; and		
		d) any information provided by the EAP to		
		interested and affected parties and any		
		responses by the EAP to comments or inputs		
		made by interested and affected parties".		

NO.	COMMENT	RAISED BY	RESPONSE
	 b) Details and Expertise of the EAP (i) You are required to include the details and expertise of the EAP in the BAR, including a curriculum vitae, in order to comply with the requirements of Appendix 1(3)(1)(a) of the NEMA EIA Regulations, 2014, as amended. 		Appendix A of the basic assessment report for includes curriculum vitae of the EAP. Section 1.3 of the basic assessment report includes details and expertise of the EAP.
	 i) Public Participation Process (i) The following information must be submitted with the final BAR: a) A list of registered interested and affected parties as per Regulation 42 of the NEMA EIA Regulations, 2014, as amended; b) Copies of all comments received during the draft BAR comment period; and c) A comment and response report which contains ail comments received and responses provided to all comments and issues raised during the public participation process for the BAR. Please note that comments received from this Department must also form part of the comment and response report. (ii) Please ensure that all issues raised and comments received la APs and organs of state which have jurisdiction (including this Department's Biodiversity) 		 (i) a) The list of registered I&APs are included in Appendix C1 of the <u>Revised</u> BAR. Note that contact details of these parties are not included in the public documents in line with the requirements of the POPI Act. These detailes will be provided to DEFF in the final report. b) Written comments received during the draft BAR 30-day review and comment period are captured in this C&RR and included in Appendix C6 of the <u>Revised</u> BAR. c) The C&RR which contains all the comments received, including those from the DEFF, response provided are included in Appendix C6 of the <u>Revised</u> BAR. (ii) All issues raised and comments received during the 30-day review period of the draft BAR are captured in this C&RR, including that of the DEFF's Biodiversity Section, and adequately address. Comments received during the review
	 Section) in respect of the proposed activity are adequately addressed in the final BAR. (iii) Proof of correspondence with the various stakeholders must be included in the final BAR. Should you be unable to obtain comments, proof should be submitted to the Department of the attempts that were made to obtain comments. The Public Participation Process must be 		 period of the revised BAR will be included in the final report to be submitted to DEFF. (iii) Proof of correspondence and notices sent to the various stakeholders, including reminders regarding the review and comment period, are included in Appendices C4 and C5 of the <u>Revised</u> BAR.

NO.	COMMENT	RAISED BY	RESPONSE
	conducted in terms of Regulation 39, 40, 41, 42, 43 & 44 of the EIA Regulations 2014, as amended.		The Public Participation Process has been conducted in terms of Regulation 39, 40, 41, 42, 43 & 44 of the EIA Regulations 2014, as amended (GNR 326), as well as in accordance with the approved Public Participation Plan. The approved Public Participation Plan is included in the <u>Revised</u> BA Report as Appendix C9 .
			The BA Report was made available for a 30-day review and comment period from, Monday , 03 August 2020 until Friday , 04, September 2020 . As per the approved Public Participation Plan, the availability of the BA Report was:
			• Announced on Radio Riverside 98.2FM, the local community radio station during 12 announcement spots between 07 August 2020 and 03 September 2020 and the schedule has been included in Appendix C2 of the <u>Revised</u> BA Report.
			The NC DAEA,RD&LR (previously NC DENC), as the commenting authority, and relevant Organs of State were notified that the BA Report can be downloaded from Savannah Environmental's website and could also be sent via other file transfer services i.e. We Transfer, Dropbox, etc. or on CD, on request, from Savannah Environmental.
	 Environmental Management Programme (i) It is drawn to your attention that for substation and overhead electricity transmission and distribution infrastructure, when such facilities trigger activity 11 or 47 of the Environmental Impact Assessment Regulations Listing Notice 1 of 2014, as amended, and any other listed and specified activities necessary for the regulation of such facilities, the generic Environmental 		 (i) The proposed electricity transmission line for Upilanga PV2 is cabled and therefore proposed underground. There is no overhead electricity transmission proposed for the Upilanga PV2 facility and therefore the generic EMPr is not relevant for this project. The underground cabled electricity infrastructure will connect to the authorised onsite substation at the authorised CSP site 1.3 located north of the site,
	realisation of such facilities, the generic Environmental Management Programme, contemplated in		therefore the generic EMPr is not relevant for the al authorised substation.

NO.	COMMENT	RAISED BY	RESPONSE
	 Regulations 19(4) must be used and submitted with the final report over and above the EMPr for the facility. (ii) There needs to be an EMPr for the facility, the onsite substation as well as the power line, for whichever alternative is chosen. (iii) Further to the above, you are required to comply with the content of the EMPr in terms of Appendix 4 of the Environmental Impact Assessment Regulations, 2014, as amended. (iv) Please be informed that the following content must be incorporated within the EMPrs as indicated in Appendix 4 of the EIA Regulations 2014, as amended: a) Details of the EAP who prepared the EMPr; and the expertise of that EAP to prepare an EMPr, including a curriculum vitae. b) A map at an appropriate scale which superimposes the proposed activity, its associated structures, and infrastructure on the environmental sensitivities of the preferred site, indicating any areas that should be avoided, including buffers. c) A description of the impact management outcomes, including management statements, identifying the impacts and risks that need to be avoided, managed and mitigated as identified through the environmental impact assessment process for all phases of the development including "(aa) Planning and design; (bb) Pre-construction activities; (cc) Construction activities; 		 (ii) The preferred Alternative for the grid connection for Upilanga PV2 consists of underground cabling and will connect to the onsite substation on authorised site 1.3. Therefore the proposed PV2 facility does not include overhead electricity infrastructure or an onsite substation. The EMPr for PV2, including the cabling proposed is included in Appendix L. (iii) The EMPr included in Appendix L of the basic assessment report has been compiled in terms of Appendix 4 of the Environmental Impact Assessment Regulations, 2014, as amended. (iv) The EMPr for the project is included in Appendix L of the basic assessment report. This EMPr includes a) Details of the EAP in Chapter 4 and, Appendix A b) Appropriate maps included in figure 2.4 and 2.5 c) Requirements as per comments (aa)-(ee) included in Chapter 5-8 Requirements as per comments (d-n) included in Chapter 5-8 d) to i) Chapters 7 to 8 include impact management actions and outcomes for each phase of the project life cycle.

NO.	COMMENT	RAISED BY	RESPONSE
	(dd) Rehabilitation of the environment after		
	construction and where applicable post		
	closure; and		
	(ee) Where relevant, operation activities.		
	d) A description of proposed impact management		
	actions, identifying the manner in which the impact		
	management outcomes contemplated in		
	paragraph (d) of Appendix 4 of the EIA Regulations		
	2014, as amended, will be achieved, and must,		
	where applicable, include actions to –		
	a) Avoid, modify, remedy, control or stop any action,		
	activity or process which causes pollution or		
	environmental degradation;		
	b) Comply with any prescribed environmental		
	management standards or practices;		
	c) Comply with any applicable provisions of the Act		
	regarding closure, where applicable; and		
	d) Comply with any provisions of the Act regarding		
	financial provision for rehabilitation, where		
	applicable.		
	e) The method of monitoring the implementation of		
	the impact management actions contemplated in		
	paragraph (f) of Appendix 4 of the EIA Regulations		
	2014, as amended.		
	f) The frequency of monitoring the implementation of		
	the impact management actions contemplated in		
	paragraph of Appendix 4 of the EIA Regulations		
	2014, as amended.		
	g) An indication of the persons who will be responsible		
	for the implementation of the impact management		
	actions.		

NO.	COMMENT	RAISED BY	RESPONSE
	 h) The time periods within which the impact management actions contemplated in paragraph (f) of Appendix 4 of the EIA Regulations 2014, as amended, must be implemented. i) The mechanism for monitoring compliance with the impact management actions contemplated in paragraph (f) of Appendix 4 of the EIA Regulations 2014, as amended. j) A program for reporting on compliance, taking into account the requirements as prescribed by the Regulations. f) Environmental Impact Statement (i) You are kindly requested to include an environmental impact statement which contains — a) a summary of the key findings of the environmental impact assessment; b) a map at an appropriate scale which superimposes the proposed activity and its associated structures and infrastructure on the environmental sensitivities of the preferred site indicating any areas that should be avoided, including buffers; and c) a summary of the positive and negative impacts and risks of the proposed activity and identified alternatives. 		 f) An environmental impact statement containing the key findings of the environmental impacts of Upilanga PV2 has been included as section 9.5. of the basic assessment report. g) Sensitive environmental features located within the Upilanga PV2 study area and development area, overlain with the proposed development footprint have been identified and are shown in Figure 9.1 of the basic assessment report. h) A summary of the positive and negative impacts associated with Upilanga PV2 has been included in section 9.4.
	Please also ensure that the final BAR includes the period for which the Environmental Authorisation is required and the date on which the activity will be concluded as per Appendix 1(3)(1)(q) of the NEMA EIA Regulations, 2014, as amended. You are further reminded to comply with Regulation 19(1)(a) of the NEMA EIA Regulations, 2014, as amended, which states that: 'Where basic assessment must be applied to an		The period for which the Environmental Authorisation is required has been included in the Revised Basic Assessment report. The EAP acknowledges the comment from DEFF.

NO.	COMMENT	RAISED BY	RESPONSE
	application, the applicant must, within 90 days of receipt of the application by the competent authority, submit to the competent authority - (a) a basic assessment report, inclusive of specialist reports, an EMPr, and where applicable a closure plan, which have been subjected to a public participation process of at least 30 days and which reflects the incorporation of comments received, including any comments of the competent authority" Should there be significant changes or new information that has been added to the B/ R or EMPr which changes or information was not contained in the reports or plans consulted on during the initial public participation process, you are required to comply with Regulation 19(b) of the NEMA EIA Regulations, 2014, as amended, which states: "the applicant must, within 90 days of receipt of the application by the competent authority, submit to the competent authority — (b) a notification in writing that the basic assessment report, inclusive of specialist reports an EMPr, and where applicable, a closure plan, will be submitted within 140 days of receipt of the application by the competent authority, as significant changes have been made or significant new information has been added to the basic assessment report or EMPr or, where applicable, a closure plan, which changes or information was not contained in the reports or plans consulted on during the initial public participation process contemplated in subregulation (1)(a) and that the revised reports or, EMPr or, where applicable, a closure plan will be subjected to another public participation process of at least 30 days".		As an offset plan has been compiled for the project and incorporated into the basic assessment report and the EMPr as per the recommendations of competent authorities, the basic assessment report and EMPr has been subsequently revised and has therefore been subjected to another public participation process of at least 30 days as per subregulation (1)(a).

NO.	COMMENT	RAISED BY	RESPONSE
4.	Herewith the comments for the proposed developments:	Ms. E. Swart	
		Scientific Manager:	
	1.1. It is estimated that approximately 3000 Boscia	Grade B	The EAP acknowledges the comment from DENC.
	albitrunca trees will be impacted (destroyed) by the	Research and	
	development as per the specialist's report. The species	Development	
	is dually protected by both the Northern Cape Nature	Support Unit	
	Conservation Act (Act No. 9 of 2009) and the National		
	Forest Act (Act No. 84 of 1998). According to this	DENC	
	department's records, approximately 769 B. albitrunca		
	(DENC flora harvesting permits: ODB 1413/2014 & ODB	Letter: 04-09-2020	
	2654/2016) has already been destroyed through the		
	construction of the Ilanga CSP 1 development which		
	includes a 1-hectare substation, an access road,		
	pipeline, storm water canal and a 132 kilovolt		
	powerline, all of which form part of the Upington llanga		
	Solar Park. Furthermore, about 3998 Boscia foetida		
	(provincially protected species; DENC flora harvesting		
	permits: ODB 1413/2014, ODB 3051/2015 & ODB		
	2654/2016) has also been destroyed during the		
	construction of the former development(s).		
	1.2. Substantial amounts of Boscia spp. are being destroyed		The EAP acknowledges the comment from DENC.
	in the Gordonia region due to developments and this is		
	of great concern as mitigation options for Boscia spp.		
	are extremely limited i.e. the genus is extremely slow		
	growing and cannot be easily trans-located (it is almost		
	impossible to relocate adult trees) and germination		
	success is poorly understood. Also, very limited		
	information exists regarding tree age, growth rate, etc.		
	With several developments proposed for llanga Solar		
	Park (~14 000 hectare) thousands of Boscia spp. will still		
	be destroyed.		

NO.	COMMENT	RAISED BY	RESPONSE
	1.3. The specialist's suggestion that an offset analysis process should be incorporated to account for the irreversible loss of the said protected species is thus strongly supported.		As per the recommendations of the specialist and the competent authority, an offset analysis has been undertaken for the project and the Upilanga Solar Park as a whole and incorporated into the basic assessment report and EMPr. The Offset Plan has been attached as Appendix D1 of the revised basic assessment report.
	1.4. The offset analysis should take into account cumulative impacts of the Ilanga Solar Park developments (and all of its associated infrastructure i.e. power lines, pipeline, road construction, etc.).		The offset plan included in the revised BA Report considers the cumulative impacts of the PV projects and the Upilanga Solar Park as a whole.
	1.5. The offset analysis should also illustrate, from a landscape level perspective and ecosystem conservation status context, that the llanga Solar Park do not threaten the ecosystems' conservation status, ecological functionality on a landscape level and will not cause fragmentation of ecosystems (the vegetation units associated with the development can be used as ecosystems).		The offset plan has considered ecosystem status and conservation contribution of the proposed offset.
	1.6. It is advised that the proponent appoints a qualified offset specialist to do a land offset proposal / investigation in consultation with the DEFF (national department and regional Forestry section) and the DENC.		A qualified offset specialist has been appointed to undertake the offset analysis and plan compilation. This has been included within the Final Basic Assessment report.
	2. As per the specialist's reports, the region favours local avifaunal diversity. It is thus proposed that, as a result of the high number of species of conservation concern in the area of interest, a lack of comparable results from other similar developments in South Africa to meaningfully assess avian mortality at renewable energy facilities and the cumulative impact of the conglomerate of developments (PV, CSP, etc. that are proposed and already in operation) and associated		Previous avifauna monitoring on the site (undertaken by Birds and Bats Unlimited in 2016 over 2 seasons) recorded large Sociable Weaver nests on site. No other sensitive breeding or roosting sites of any red-listed species were recorded. A pre- construction survey will be undertaken to confirm if communal roosting and breeding sites of red-listed species are present at the site at that time, and appropriate mitigation measures will be implemented.

NO.	COMMENT	RAISED BY	RESPONSE
	infrastructure within the area of interest that bird		Post-construction monitoring with the aid of video surveillance,
	mortality as well as bird species richness and density		particularly if there are high collision rates has been included
	within and around the Ilanga Solar Park (e.g. the		within the mitigation measures and EMPr for the project.
	boundary zone, adjacent untransformed land, etc.) be		
	monitored during the lifespan (pre-construction		
	through to operational phases) of the development		
	(see Visser, 2016). The monitoring project should be		
	based on scientifically rigorous research designs		
	drafted by an external specialist and the information		
	should be provided to both the provincial and national		
	conservation authorities		
	3. A detailed walk-through report should be submitted		A detailed walkthrough will be undertaken prior to construction
	with permit applications for the removal of protected		and will be submitted together with the permit for removal pf
	species.		protected species for the project. This requirement is included
			within the project EMPr.
	Some additional remarks to take into consideration:		1. It must be noted that there is no solar flux / heat beams
			associated with PV facilities. Review of international studies
	1. The impact of CSP, parabolic and PV plants on		available online ¹ do not indicate negative impacts on
	pollinators is a concern. The developments are within		pollinators, The indication is that there is the potential for
	an agricultural hub of the Northern Cape and the		solar facilities to provide habitat for such insects provided
	impact of these developments on direct death (e.g.		that appropriate mitigation and management of site is
	when flying into solar flux / heat beams) and indirect		implemented. As the biodiversity offset has been
	impacts through local heat island effects (e.g.		undertaken (Appendix D1) for the remaining land portions
	influencing the activity period of pollinators like honey		for the Upilanga Solar park as a whole to account for the
	bees that have a temperature range within which they		number protected species to be impacted by the
	are active) must be addressed and monitored.		development (B. albitrunca and B. foetida), the offset will
			result in the conservation and protection of Boscia
			albitrunca which supports a number of pollinators.

¹ <u>https://www.scientificamerican.com/article/solar-farms-shine-a-ray-of-hope-on-bees-and-butterflies/</u> and https://cleantechnica.com/2018/08/14/solar-farms-can-become-pollinator-habitats-help-save-the-bees/

NO.	COMMENT	RAISED BY	RESPONSE
	 Together with bird, bat, reptile etc. species, the impacts on pollinators have an impact on the ecosystem and food chains at large as well. The extent of such impacts is key to ensure that it is not disruptive to such and extent that ecosystem collapse or alteration occurs (linked to cumulative impact). 		The implementation of the offset will assist in the conservation of the Boscia albitrunca which support a multitude of pollinators in the areas thereby ensuring the impacts to the ecosystem and disruption to the food chain is minimised.
	 Baseline data and monitoring of birds, migrating bats, pollinators, etc. will be important components to incorporate. 		The baseline data and monitoring of bird and bat species has been considered within the ecological and avifauna assessments undertaken as per Appendix D and Appendix E of the basic assessment report.
	4. When assessing options for a Biodiversity Offset the aforementioned concerns will have to be considered and incorporated into the assessments to ensure the offset properties will not be impacted by the developments.		The implementation of the offset will assist in the conservation of the Boscia albitrunca which support a multitude of pollinators in the areas thereby ensuring the impacts to the ecosystem and disruption to the food chain is minimised.
	5. The proposed corridor to manage landscape fragmentation is supported, and it is urged that some technical thinking and deliberation goes into it to ensure that it is of sufficient size (and appropriately located) to facilitate connectivity and ecosystem function.		The offset plan compiled for the project includes consideration of these aspects.
5.	The following comments are made as a requirement in terms of section 3(4) of the NEMA Regulations and section 38(8) of the NHRA in the format provided in section 38(4) of the NHRA and must be included in the Final BAR and EMPr: 38(4)a – The SAHRA Archaeology, Palaeontology and Meteorites (APM) Unit has no objections to the proposed development;	Natasha Higgitt Heritage Officer South African Heritage Resources Agency Phillip Hine	This has been addressed on Page 53 of the EMPr.

NO.	COMMENT	RAISED BY	RESPONSE
	38(4)b – The recommendations of the specialists are supported and must be adhered to. No further additional specific conditions are provided for the development;	Manager: Archaeology, Palaeontology and	The recommendations of the specialist are included in the BAR and EMPr
	38(4)c(i) – If any evidence of archaeological sites or remains (e.g. remnants of stone-made structures, indigenous ceramics, bones, stone artefacts, ostrich eggshell fragments, charcoal and ash concentrations), fossils or other categories of heritage resources are found during the proposed development, SAHRA APM Unit (Natasha Higgitt/Phillip Hine 021 462 5402) must be alerted as per section 35(3) of the NHRA. Non-compliance with section of the NHRA is an offense in terms of section 51(1)e of the NHRA and item 5 of the Schedule; 38(4)c(ii) – If unmarked human burials are uncovered, the SAHRA Burial Grounds and Graves (BGG) Unit (Thingahangwi	Meteorites Unit South African Heritage Resources Agency Letter: 02 September 2020	This has been addressed on Page 53 of the EMPr. This has been addressed on Page 53 of the EMPr.
	Tshivhase/Mimi Seetelo 012 320 8490), must be alerted immediately as per section 36(6) of the NHRA. Non- compliance with section of the NHRA is an offense in terms of section 51(1)e of the NHRA and item 5 of the Schedule; 38(4)d – See section 51(1) of the NHRA; 38(4)e – The following conditions apply with regards to the		The EAP acknowledges the comment from DEFF. This has been addressed on Page 53 of the EMPr.
	appointment of specialists: i) If heritage resources are uncovered during the course of the development, a professional archaeologist or palaeontologist, depending on the nature of the finds, must be contracted as soon as possible to inspect the heritage resource. If the newly discovered heritage resources prove to be of archaeological or palaeontological significance, a Phase 2 rescue operation may be required subject to permits issued by SAHRA;		

NO.	COMMENT	RAISED BY	RESPONSE
	The Final BAR and EMPr must be submitted to SAHRA for record purposes;		The final Basic Assessment report will be submitted to SAHRA as requested.
	The decision regarding the EA Application must be communicated to SAHRA and uploaded to the SAHRIS Case application.		The decision on the application will be communicated to SAHRA.
6.	In order to fully determine the level of risk on interference to the SKA Infrastructure Territory, SARAO requires an inventory of electrical equipment that will be deployed at the facility. Based on the location, spectral density at the facility should not exceed -46 dBm/Hz in order to fall within the Karoo Central Astronomy Advantage Areas Regulations compliance limits.	Mr Selaelo Matlhane Spectrum & Telecommunication Manager South African Radio Astronomy Observatory (SARAO) Letter: 04 September 2020	The comments from SARAO are acknowledged and the specific requirements communicated to the applicant.
	Based on other recently assessed solar PV projects in the vicinity, we have determined that the risk level is from low to medium. Each project is, however, unique and dependent on electrical equipment installed (or proposed) and subsequent radiated emissions.		The low to medium risk associated with the project is noted. A list of electrical equipment will be submitted to SARAO to evaluation.
	SARAO does not object the projects but would appreciate if an inventory of electrical equipment could be provided at a later stage, so that re-assessment can be undertaken and a EMI control plan should be put in place if the emissions exceeds the compliance limits.		The no objection from SARAO is noted. A list of electrical equipment will be submitted to SARAO to evaluation.
7.	The following recommendations must be considered in the final report:	Mr. Seoka Lekota Control Biodiversity Officer Grade B:	The Plant Rescue Plan for the proposed development site is included in Appendix L(d) of the BA Report.
	 » Search and rescue plan for the identified Species of Conservation Concern (SCC) must be submitted as part of the final report; 	Biodiversity Conservation	

NO.	COMMENT	RAISED BY	RESPONSE
	 Permits from the relevant authorities must be obtained prior to commencement of any construction activities for the removal or disturbance of any TOPs, Red Data listed or Provincially protected species; Erosion and Alien Plant Species Management Plan, Rehabilitation Plan must be submitted as part of the final report to mitigate on habitat degradation due to erosion 	DEFF Letter: 04 September 2020	As per the specialist recommendations and the EMPr (Appendix M), permits from the relevant authorities must be obtained prior to commencement of construction activities for the proposed project. These plans are included in Appendix L(c) and L(f) as appended within the EMPr (Appendix L) for proposed PV facility.
	and alien plant invasion; and » Sensitive areas in close proximity to the development footprint must be demarcated as no-go area i.e. drainage features, pans and quartz patches.		No sensitive no-go areas were identified within the project footprint as per the specialist studies (Appendix D-J). Secondary alluvial water courses and minor drainage lines that were either fragmented or contained no riparian zones were identified within the project footprint and were determined to be of Moderate sensitivity. No pans or quartz patched were identified within the project footprint.
	The final report must comply with all the requirements as outlined in the Environmental Impact Assessment (EIA) guideline for renewable energy projects and the Revised Best Practice Guideline for Birds & Solar Energy for assessing and monitoring the impact of solar power generating facilities on birds in Southern Africa		The basic assessment report and the avifauna assessment (Appendix E) comply with the requirements as outlined in the Environmental Impact Assessment (EIA) guideline for renewable energy projects and the Revised Best Practice Guideline for Birds & Solar Energy for assessing and monitoring the impact of solar power generating facilities on birds in Southern Africa.

2.2. Interested and Affected Parties

NO.	COMMENT	RAISED BY	RESPONSE
1.	Please see below details for the upcoming development	Angelo Douwie	E-mail acknowledged and as no specific details regarding to
	project.	Director	which project his query is applicable to, Savannah
		Kaofeli Services (Pty)	Environmental responded to e-mail request whether I&AP wants
		Ltd	to be registered on the project database to receive process and
			updated project information.
		E-mail: 29 August	
		2020	

NO.	COMMENT	RAISED BY	RESPONSE
	It's the llanga 2 project apparently at karoshoek and also	E-mail: 17	Confirmation of interest in project acknowledged.
	any other new projects around upington etc	September 2020	
	Please find attach company profile for upcoming Upilanga	E-mail: 22	The I&AP was informed that as per the Environmental Impact
	PV 1 project and Upilanga PV project 2.	September 2020	Assessment (EIA) Regulations, 2014, as amended, that formal
			registration on a project database is required. Therefore,
			Savannah Environmental cannot do a 'blanket' registration on
			projects and requested that he informs the project team that he
			can be formally registered on the project database.