

**ISSUES AND RESPONSES REPORT**  
**HUMANSRUS SOLAR PV ENERGY FACILITY 4 - ENVIRONMENTAL IMPACT ASSESSMENT REPORT**  
**DEA REF: 14/12/16/3/3/2/887**

**PUBLIC PARTICIPATION PROCESS**

A Pre Application Scoping Report (PASR) was submitted prior to the submission of the formal Application for Environmental Authorisation. This was to ensure that all relevant stakeholders were provided with sufficient time to register for the EIA process and to submit their commentary.

The project and the environmental process has been advertised in the Noordwester newspaper (issue of 20 November 2015), inviting the public to register as interested and affected parties and to provide comment on the available information. The Pre Application Scoping Report (PASR) (Ref: SIY402/01) was made available to Stakeholders and Interested and Affected Parties (I&APs) for a review and comment period extending from Friday 20 November to Thursday 10 December 2015.

The Scoping Report included all comments received to date during the pre-application process. The formal Scoping Report was made available to all registered stakeholders for a period of 30 days extending from Wednesday 20 January to Thursday 18 February 2016.

All comments received during this period were collated and included in the final Scoping Report for submission to the national Department of Environmental Affairs (DEA). Hard copies of the Environmental Impact Assessment Report (EIAR) have been placed at the Siyathemba Municipality offices (Prieska) and the Prieska Library, for public review. The EIAR has also been made available on the Cape EAPrac website: [www.cape-eaprac.co.za](http://www.cape-eaprac.co.za). The comment period extends for a period of 30 days from **Monday 30 May to Wednesday 29 June 2016**.

COMMENT / ISSUES	RESPONSES
<b>Mbewu Mining (Pty) Ltd - Registered mining right holder</b>	
Automatically registered as an I&AP.	17 November 2015
<b>Van Wyk Broers - Neighbours</b>	
Automatically registered as an I&AP.	17 November 2015
<b>Abrahams, Nicole - SANRAL</b>	
Automatically registered as an I&AP.	17 November 2015
<b>Alexander, John - Siyathemba Local Municipality</b>	
Automatically registered as an I&AP.	17 November 2015
<b>Badenhorst, Johan - Siyathemba Local Municipality</b>	
Automatically registered as an I&AP.	17 November 2015
<b>Buthelezi, Thoko - Department of Agriculture, Forestry &amp; Fisheries</b>	
Automatically registered as an I&AP.	17 November 2015
<b>Corrigan, Bridget - Endangered Wildlife Trust (EWT)</b>	
Automatically registered as an I&AP.	17 November 2015

<b>De Jager, A. - Neighbour</b>		
	Automatically registered as an I&AP.	17 November 2015
<b>De Kock, Rene - SANRAL</b>		
	Automatically registered as an I&AP.	17 November 2015
<b>Felaar, Marshall - ESKOM Distribution (Western Operating Unit)</b>		
	Automatically registered as an I&AP.	17 November 2015
<b>Fourie, W - Neighbour</b>		
	Automatically registered as an I&AP.	17 November 2015
<b>Geeringh, John - ESKOM</b>		
	Automatically registered as an I&AP.	17 November 2015
<b>Pre-application Draft Scoping Report</b>		
<b>24-Nov-15</b>	Please ensure compliance with the Eskom requirements for works at or near Eskom infrastructure.	<b>Cape EAPrac:</b> Noted. These requirements will be included in the Environmental Management Programme (EMPr).
<b>Hine, Phillip - SAHRA</b>		
	Automatically registered as an I&AP.	17 November 2015
<b>Hohne, Danita - Department of Water Affairs (Northern Cape)</b>		
	Automatically registered as an I&AP.	17 November 2015
<b>Human, HG &amp; MJ - Neighbour</b>		
	Automatically registered as an I&AP.	17 November 2015
<b>Human, Wynand Jacobus - Neighbour</b>		
	Automatically registered as an I&AP.	17 November 2015
<b>Joubert, Niel - Provincial Roads</b>		
	Automatically registered as an I&AP.	17 November 2015
<b>Julius, Garth - SANRAL</b>		
	Automatically registered as an I&AP.	17 November 2015
<b>Koegelenberg, Johan - SENTECH</b>		
	Automatically registered as an I&AP.	17 November 2015
<b>Leask, Kevin - ESKOM</b>		
	Automatically registered as an I&AP.	17 November 2015
<b>Lekota, Seoka - DEA: Directorate of Biodiversity &amp; Conservation</b>		
	Automatically registered as an I&AP.	17 November 2015
<b>Mans, Jacoline - Department of Agriculture, Forestry &amp; Fisheries</b>		
	Automatically registered as an I&AP.	17 November 2015

<b>Marais, Ronald - ESKOM</b>		
	Automatically registered as an I&AP.	17 November 2015
<b>Marubini, Mashudu - Department of Agriculture, Forestry &amp; Fisheries</b>		
	Automatically registered as an I&AP.	17 November 2015
<b>Masipa, Pheladi - Department of Energy</b>		
	Automatically registered as an I&AP.	17 November 2015
<b>Matjuda, Donald - ESKOM</b>		
	Automatically registered as an I&AP.	17 November 2015
<b>Mbolekwa, Ayanda - Department of Communications</b>		
	Automatically registered as an I&AP.	17 November 2015
<b>Miles, Melanie - Leads 2 Business</b>		
	Automatically registered as an I&AP.	17 November 2015
<b>Mokale, Archibald - Office of the Regional Land Claims Commission: Northern Cape</b>		
	Automatically registered as an I&AP.	17 November 2015
<b>Pre-application Draft Scoping Report</b>		
<b>01-Dec-15</b>	Portion of Farm 147 Humansrus Prieska in the Northern Cape Province.	
	This communique serves to advise your company that according to our database there are no restitution claims lodged against the above mentioned properties description.	<b>Cape EAPrac:</b> Noted.
	We are receiving new restitution claims as of 2014 onwards.	<b>Cape EAPrac:</b> Noted.
	It should however be borne in mind that our database is continuously being updated, therefore this information may be subject to change and you will be informed accordingly.	<b>Cape EAPrac:</b> Noted.
<b>Mthombeni, Thulani - North Cape Department of Environmental Affairs</b>		
	Automatically registered as an I&AP.	17 November 2015
<b>Mutheiwana, Kevin - Department of Mineral Resources</b>		
	Automatically registered as an I&AP.	17 November 2015
<b>Novellie, Peter - South African National Parks</b>		
	Automatically registered as an I&AP.	17 November 2015
<b>Pieterse, Rodney - Local Municipality</b>		
	Automatically registered as an I&AP.	17 November 2015
<b>Qase, Noma - Department of Minerals &amp; Energy</b>		
	Automatically registered as an I&AP.	17 November 2015
<b>Ralston, Samantha - Birdlife Africa</b>		

Automatically registered as an I&AP.	17 November 2015
<b>Ranchobe Ranchobe, Motebang - Department of Rural Development &amp; Land Reform</b>	
Automatically registered as an I&AP.	17 November 2015
<b>Ratlou, Tumelo - DEA: Directorate Biodiversity &amp; Conservation</b>	
Automatically registered as an I&AP.	17 November 2015
<b>Ravhugoni, Ntsundeni - Department of Mineral Resources</b>	
Automatically registered as an I&AP.	17 November 2015
<b>Speelman, Gloria - Ward Councillor</b>	
Automatically registered as an I&AP.	17 November 2015
<b>Stander, Danie - Northern Cape Department of Health</b>	
Automatically registered as an I&AP.	17 November 2015
<b>Stroh, Lizelle - Civil Aviation Authority</b>	
Automatically registered as an I&AP.	17 November 2015
<b>Timothy, Andrew - SAHRA</b>	
Automatically registered as an I&AP.	17 November 2015
<b>Tiplady, Adrian - Department of Science &amp; Technology (SKA)</b>	
Automatically registered as an I&AP.	17 November 2015
<b>Pre-application Draft Scoping Report</b>	
A high level impact assessment was conducted by SKA South Africa on the proposed facility, where it was determined that the proposed facility represented a high risk of detrimental impact to the SKA. A letter confirming this, dated 2nd November 2015, was sent to the respective environmental consultant (Melissa Mackay, Cape Environmental Assessment Practitioners (Pty) Ltd).	<b>Cape EAPrac:</b> Noted.
This letter follows a teleconference meeting between yourself and SKA South Africa, concerning the development of the proposed facility, and the methodology to conduct an impact assessment on the SKA project.	
You indicated the following during the course of the teleconference:	
i. four PV facilities are planned for Humansrus Farm 147, and detailed designs are available for the first two of the four proposed facilities;	
ii. the project sponsor is the same for all four project, and that the detailed design for Humansrus Solar PV 2 Energy Facility (Pty) Ltd can be used as representative of the detailed design for all four facilities;	

22-Dec-15	<p>iii. Humansrus Solar PV 2 Energy Facility and Humansrus Solar PV 4 Energy Facility are the closest to the SKA receiver (SKA ID 1890), whereas Humansrus Solar PV 3 and Humansrus Solar PV 1 Energy Facilities are the furthest away from the SKA receiver.</p>	
	<p>Based on the information provided, the following was proposed by yourself:</p>	
	<p>i. Suitable EMC consultants are appointed by yourself to conduct a detailed analysis of the detailed designs for Humansrus Solar PV Energy Facility 2;</p>	
	<p>ii. The results of the analysis conducted in i. above would be used to conducted a desktop characterisation of the expected radio emissions from Humansrus Solar PV 4 Energy Facility, and interference studies on the SKA would be conducted using site specific information. Consideration shall be given to the cumulative impact of multiple facilities in the vicinity of this facility;</p>	
	<p>iii. Depending on the results of the analysis conducted in ii. above, additional on-site measurements will be conducted, as required by SKA South Africa, for Humansrus Solar PV 2 Energy Facility in order to better inform, and reduce uncertainty, in the characterisation of expected radio emissions from Humansrus Solar PV 4 Energy Facility;</p>	
	<p>iv. Results of the analysis conducted in i., ii. and iii. above will be used by the project developers to quantify and mitigate risks for all four proposed Humansrus Solar PV Energy Facilities.</p>	
	<p>SKA South Africa views the proposal as being suitable for the purposes of conducting a detailed impact assessment. Should relevant phases of the impact assessment indicate that a high level of risk still remains, SKA South Africa will continue to engage with the developers and relevant EMC Consultant. It remains the responsibility of the developer to ensure that all potential risk is mitigated entirely for the purposes of the Environmental Impact Assessment process.</p>	<p><b>Cape EAPrac:</b> Thank you for your involvement on this process. Please note that your requirements as mentioned for the assessment have been included as part of the Terms of Reference for the EMC consultants.</p>
<b>Pre-application request for comment</b>		
	<p>This letter is in response to your email request, to provide an assessment on the potential development of a photo -voltaic electricity generation facilities in the Northern Cape Province and the risk it may pose on the Square Kilometre Array Project.</p>	

<p>A high level risk assessment has been conducted at the South African SKA Project Office to determine the potential impact of such facilities on the Square Kilometre Array. This letter serves to confirm the outcomes of the risk assessment, and proposals for any future investigations associated with this facility.</p>	<p><b>Cape EAPrac:</b> Noted.</p>
<p>- The location of the proposed facility has been provided in form of Google Earth Shapefile provided by Cape EAPrac,</p>	
<p>- The nearest SKA station has been identified as SKA station ID 1890, at approximately 15km from the proposed installation;</p>	
<p>- Based on distance to the nearest SKA station, and the information currently available on the detailed design of the PV installation, this facility poses a high risk of detrimental impact on the SKA;</p>	
<p>- As a result of the high risk associated with the PV facility, the SKA project office requires that further EMI and RFI detailed studies be conducted as significant mitigation measures would be required to lower the risk of detrimental impact to an acceptable level. Until these further studies can be undertaken, the SKA does not support the establishment of this facility, particularly considering the cumulative impact of multiple facilities at the proposed location;</p>	<p><b>Cape EAPrac:</b> Noted. An EMC consultant will be appointed to undertake an assessment in consultation with SKA.</p>
<p>- Any transmitters that are to be established, or have been established, at the site for the purposes of voice and data communication will be required to comply with the relevant AGA regulations concerning the restriction of use of the radio frequency spectrum that applies in the area concerned; The South African SKA Project Office would like to be kept informed of progress with this project, and reserves the right to further risk assessments at a later stage.</p>	<p><b>Cape EAPrac:</b> Noted.</p>
<p>This technical advice is provided by the South African SKA Project Office on the basis of the protection requirements of the SKA in South Africa, and does not constitute legal approval of the renewable energy projects in terms of the Astronomy Geographic Advantage Act, the Management Authority, and its regulations or declarations.</p>	<p><b>Cape EAPrac:</b> Noted.</p>
<p><b>Torien, Nico - Department of Agriculture, Forestry &amp; Fisheries</b></p>	
<p>Automatically registered as an I&amp;AP.</p>	<p>17 November 2015</p>
<p><b>Van Heerden, D - North Cape Department of Environmental Affairs</b></p>	
<p>Automatically registered as an I&amp;AP.</p>	<p>17 November 2015</p>

