

SITE VERIFICATION REPORT OF THE AMAZAMAZANA SOLAR PV FACILITY AND ASSOCIATED GRID INFRASTRUCTURE

January 2024



Details of Role Players

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1 INTRODUCTION

This site verification report is compiled in compliance with Government Notice No. 320, dated 20 March 2020, which includes the requirement for an Initial Site Sensitivity Verification Report to be produced for a development footprint. The outcome of the Initial Site Verification must be recorded in the form of a report that –

- a) Confirms or disputes the current use of the land and environmental sensitivity as identified by the national web based environmental screening tool;
- b) Contains a motivation and evidence of either the verified or different use of the land and environmental sensitivity;
- c) Is submitted together with the relevant reports prepared in accordance with the requirements of the Environmental Impact Assessment Regulations.

1.1 SPECIALIST ASSESSMENTS IDENTIFIED BY THE SCREENING TOOL REPORT

The DFFE screening tool report identified the following specialist assessments to be included in the Scoping and EIA assessment:

- Agricultural Impact Assessment
- Landscape / Visual Impact Assessment
- Archaeological and Cultural Impact Assessment
- Paleontological Impact Assessment
- Terrestrial Biodiversity Impact Assessment
- Aquatic Biodiversity Assessment
- Civil Aviation Assessment
- Defence Assessment
- RFI Assessment
- Geotechnical Assessment
- Socio-Economic Assessment
- Plant Species Assessment
- Animal Species Assessment

Table 1: Specialist studies identified by the DFFE Screening Tool and steps taken

Study identified in the DFFE Screening Tool and sensitivity	Study included as part of the Environmental Impact Assessment	Motivation
Agricultural Impact Assessment: Screening tool noted Low to Medium Sensitivity.	Yes	The site is characterised by natural vegetation and is mainly used for grazing area for sheep. Due to the nature of the site and the Low to Medium sensitivity an Agricultural Compliance Statement will be conducted as part of the assessment process.
Landscape / Visual Impact Assessment: The Screening tool identified the study to be undertaken but not the sensitivity of the site.	Yes	The study has been included as the site is situated next to the N10 road and in proximity of some farmhouses.
Archaeological and Cultural Impact Assessment: The Screening tool noted a low sensitivity.	Yes	Due to the nature of the project and as per requirement of the National Heritage Resources Act, a Phase 1 Heritage Impact Assessment.
Paleontological Impact Assessment: The Screening tool noted Medium to Very High Sensitivity	Yes	As per the desktop study conducted by the specialist the PV array will be very shallow and not disrupt to any fossil beds, thus a compliance statement will form part of the study.
Terrestrial Biodiversity Impact Assessment:	Yes	A Terrestrial Biodiversity Impact Assessment has been included as part of the

Study identified in the DFFE Screening Tool and sensitivity	Study included as part of the Environmental Impact Assessment	Motivation
The Screening tool noted possible CBA 1 and 2 areas within the site footprint and Very High Sensitivity		application due to the CBA 1 and CBA 2 areas.
Aquatic Biodiversity Assessment: The Screening tool noted low to Very High Sensitivity	Yes	A wetland assessment has been included due to a spring and wetland area found during the site visit. An aquatic biomonitoring assessment was also included due to the linkages with a drainage line flowing north of the site.
Civil Aviation Assessment: The Screening tool noted low sensitivity.	No	During the site visit it was confirmed that no aerodromes exist close to the site and low sensitivity is confirmed. The Draft Scoping and other reports will be submitted to the Civil Aviation Authority (CAA) for comment.
Defence Assessment: The Screening tool noted low sensitivity.	No	The site verification confirmed that no military operations are located close to the development. The project site is therefore not expected to have an impact on Defence installations.

Study identified in the DFFE Screening Tool and sensitivity	Study included as part of the Environmental Impact Assessment	Motivation
RFI Assessment The Screening tool noted low sensitivity.	No	No desktop information could be found regarding nearby installations. The site verification concluded that there are no potential RFI nearby. SARAO will be consulted as part of the process.
Geotechnical Assessment: Screening tool did not indicate sensitivity.	Yes	After discussions with the specialist, it was decided that Pre-feasibility assessment be conducted after which a in-depth assessment will be conducted before construction begins.
Socio-Economic Assessment Screening tool did not indicate sensitivity.	Yes	A social impact assessment has been included as part of the specialist assessments.
Plant Species Assessment: Screening tool noted a Low sensitivity	Yes	As the project will entail the clearance of natural vegetation a Plant species compliance statement will be included due to the Low sensitivity of the site. This was confirmed during an initial site visit.
Animal Species Assessment: Screening tool noted a Medium sensitivity	Yes	Due to the clearance of vegetation to take place and the fact that some Blue Crane individuals were spotted near the site during

Study identified in the DFFE Screening Tool and sensitivity	Study included as part of the Environmental Impact Assessment	Motivation
		the initial site visit an Avifauna and Fauna Impact Assessment is currently underway. VulPro also informed us of Vulture colonies within a 50km radius.

1.2 DFFE SCREENING TOOL SENSITIVITIES FOR STUDIES TO BE UNDERTAKEN

1.2.1 Agricultural Theme

The figure below indicates that most of the site is Medium Sensitivity with Land capability;06. Low-Moderate/07. Low-Moderate/08. Moderate.



Figure 1: Agricultural Sensitivity as indicated by the DFFE Screening Tool Report

1.2.2 Animal Species Theme

The site footprint is classified as Medium Sensitivity due to the potential occurrence of Aves-Neotis ludwigii and Aves-Afrotis afra species.

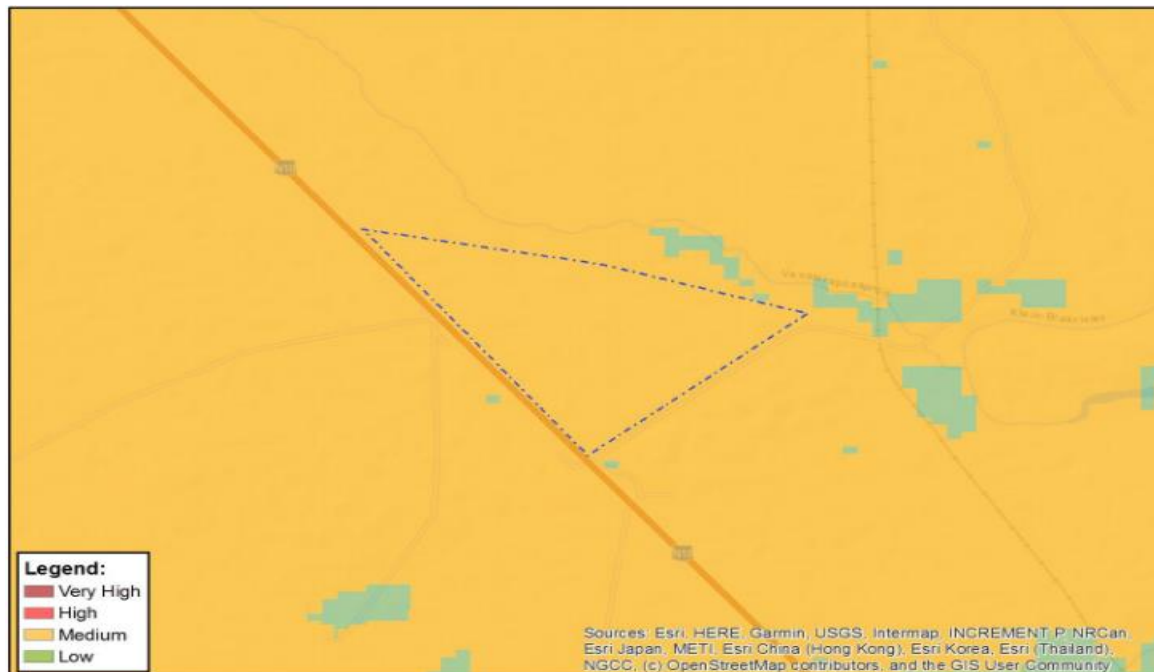


Figure 2: Animal Species Sensitivity as indicated by the DFFE Screening Tool Report.

1.2.3 Aquatic Biodiversity Theme

The site is classified as low sensitivity with Very High Sensitivity areas in the northern part of the site due to interlinkages with the drainage line / stream to the north that is classified as an ESA 1 area.



Figure 3: Aquatic Biodiversity Sensitivity as indicated by the DFFE Screening Tool Report.

1.2.4 Archaeological and Cultural Heritage Theme

The site is classified as low sensitivity as indicated below in Figure 4.

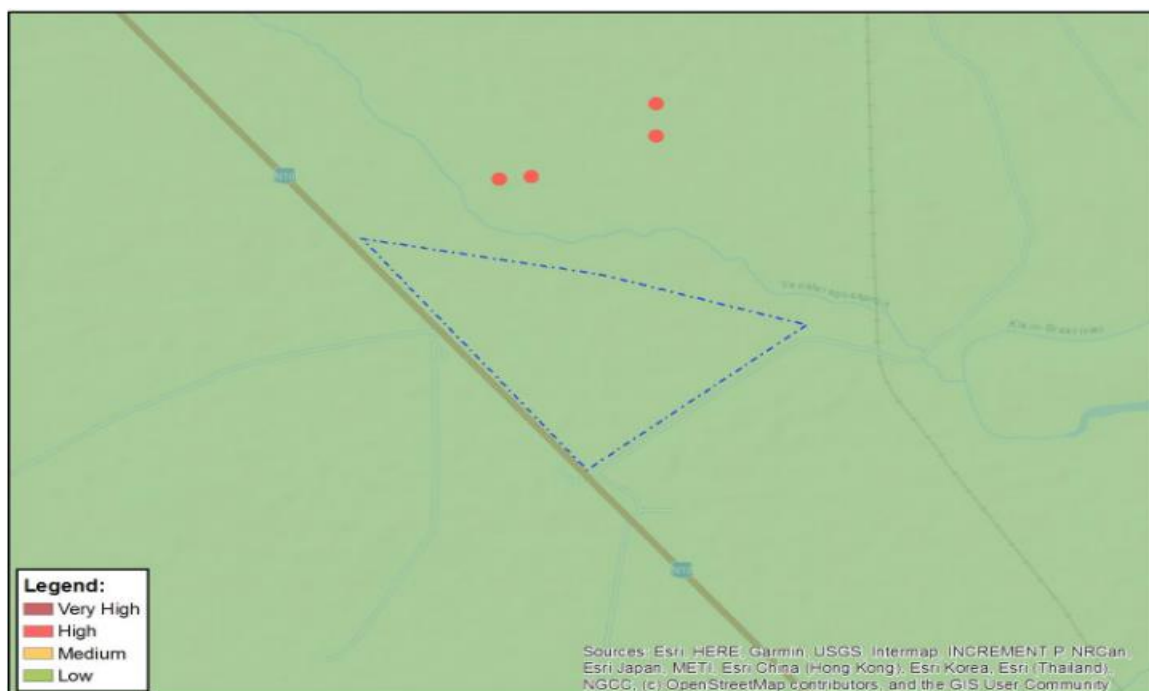


Figure 4: Archaeological and Cultural Heritage Theme

1.2.5 Avian Theme Sensitivity

The site sensitivity is classified as low as indicated in Figure 5 below.



Figure 5: Avian Theme Sensitivity as indicated by the DFFE Screening Tool Report.

1.2.6 Paleontological Theme Sensitivity

The Screening tool indicated a sensitivity classified as Medium to Very High due to the potential to have features with Very High Paleontological sensitivity.

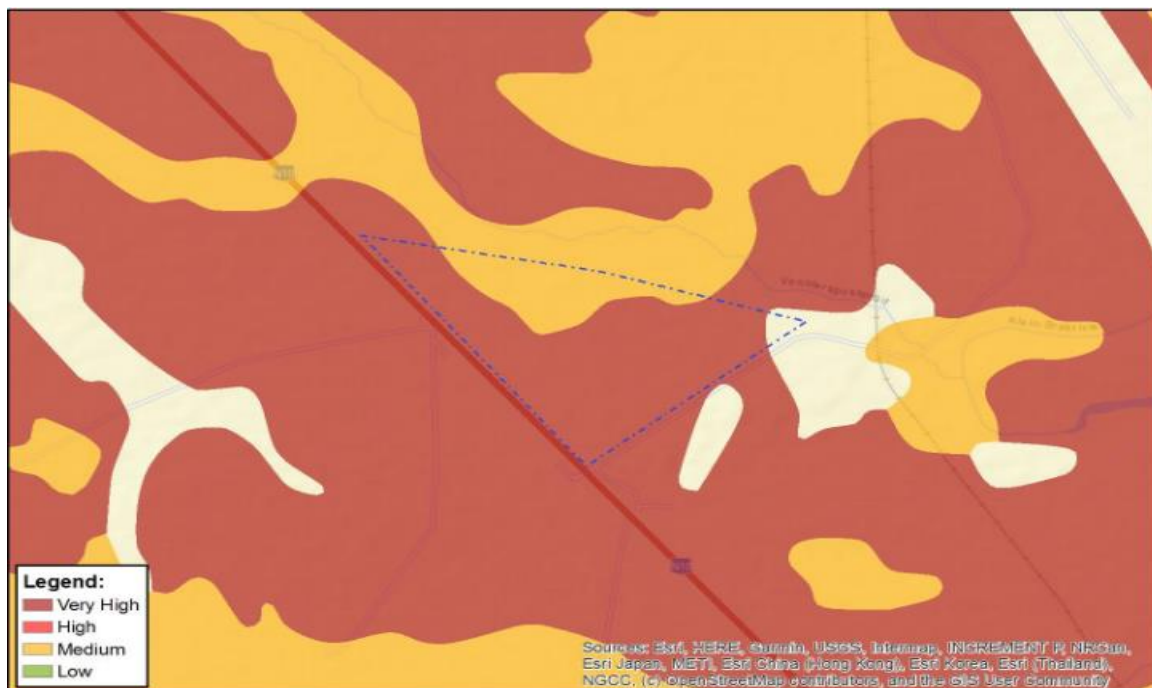


Figure 6: Paleontological Theme Sensitivity as indicated by the DFFE Screening Tool Report.

1.2.7 Plant Species Theme Sensitivity

The Screening Tool indicated a low sensitivity, and this was confirmed during the initial site visit.



Figure 7: Plant Species Theme Sensitivity as indicated by the DFFE Screening Tool Report.

1.2.8 Terrestrial Biodiversity Theme Sensitivity

The site sensitivity is classified as Very High due to the presence of Critical Biodiversity Areas 2.



Figure 8: Terrestrial Biodiversity Theme Sensitivity as indicated by the DFFE Screening Tool Report.

1.3 CURRENT VERIFIED LAND-USE

Portion 15 of the Farm Zeeven Fonteyenen is currently utilized as grazing for sheep as part of agricultural activities.

There are farmsteads to the east of the site and the surrounding region is sparsely populated.



Figure 9: The site area with photograph taken in a northerly direction.



Figure 10: The site area with photograph taken in a westerly direction.



Figure 11: General conditions of the site area.



Figure 12: Hillslope seep wetland identified on the north-eastern portion of the site boundaries.



Figure 13: Partly perennial stream to the north of the site.

2 SITE VERIFICATION

This section is to evaluate and verify the sensitivity ratings provided by the DFFE Screening Tool Report and provide insights from the EAP.

2.1 AGRICULTURAL THEME

It was depicted that most of the site is Medium Sensitivity with Land capability;06. Low-Moderate/07. Low-Moderate/08. Moderate.

Table 2: Verification of DFFE Screening report sensitivity ratings for the Agricultural Theme.

Identified Sensitivity		Comments
DFFE Screening Report Medium Agricultural Compliance Statement must be prepared by a soil scientist or agricultural specialist registered with SACNASP.	EAP Feedback Medium	The proposed site is used for grazing and cannot support cultivation. The agriculture compliance statement will be compiled in accordance with the protocols in Government Notice No. 320 of 20 March 2020.

2.2 LANDSCAPE / VISUAL THEME

The Screening Tool identified that a specialist study is required but not the specific sensitivity of the site.

The study has been included as the site is situated next to the N10 road and in proximity of some farmhouses.

2.3 ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME

Table 3: Verification of DFFE Screening report sensitivity ratings for the Archaeological and Cultural Heritage Theme.

Identified Sensitivity		Comments
DFFE Screening Report Low As no specific assessment protocol has been prescribed, the required level of assessment must be based on the findings of the Initial Site Sensitivity Verification and must comply with Appendix 6 of the Environmental Impact Assessment Regulations promulgated under sections 24(5) and 44 of the National Environmental Management Act, 1998 (Act No. 107 of 1998) (The Act), where a specialist assessment is required.	EAP Feedback Low	The identification of the site as low sensitivity considering Archaeological and Cultural Heritage is agreed to by the EAP. This is based on a desktop assessment and site inspection. A Heritage Impact Assessment will be conducted to ensure that no Cultural or Heritage features are missed on site.

2.4 PALEONTOLOGICAL IMPACT ASSESSMENT

Table 4: Verification of DFFE Screening report sensitivity ratings for the Paleontological Theme.

Identified Sensitivity		Comments
DFFE Screening Report Very High As no specific assessment protocol has been prescribed, the required level of assessment must be based on the findings of the Initial Site Sensitivity Verification and must comply with Appendix 6 of the Environmental Impact Assessment Regulations promulgated under sections 24(5) and 44 of the National Environmental Management Act, 1998 (Act No. 107 of 1998) (The Act), where a specialist assessment is required.	EAP Feedback Low	The palaeontological specialist conducted a desktop assessment and stated the PV array will be very shallow and not disrupt to any fossil beds, thus a compliance statement will form part of the study.

2.5 TERRESTRIAL BIODIVERSITY IMPACT ASSESSMENT

The site sensitivity has been classified as Very High due to the presence of CBA 1 and CBA 2 areas.

Table 5: Verification of DFFE Screening report sensitivity ratings for the Terrestrial Biodiversity Theme

Identified Sensitivity		Comments
DFFE Screening Report Very High Specialist Assessment must be done in accordance to the Procedures for the Assessment and Minimum Criteria for Reporting on identified Environmental Themes in terms of Sections 24(5)(a) and (h) and 44 of the National Environmental Management Act 1998, when applying for Environmental Authorization, which were promulgated in Government Notice No. 1150 of 30 October 2020.	EAP Feedback Medium	The identification of the site as Very High is disputed by the EAP. This is based on the current land-use of the site being used for grazing and has been impacted upon. A Terrestrial Biodiversity assessment does form part of the studies to be conducted in accordance with the Protocols (G. NR 320).

2.6 AQUATIC BIODIVERSITY THEME SENSITIVITY

The Screening tool noted Low to Very High sensitivities on site due to the presence of ESA 1 areas.

Table 6: Verification of DFFE Screening report sensitivity ratings for the Aquatic Biodiversity Theme

Identified Sensitivity		Comments
DFFE Screening Report Very High Specialist Assessment must be done in accordance to the Procedures for the Assessment and Minimum Criteria for Reporting on	EAP Feedback High	During the site visit the proposed ESA 1 areas were visited and found that it was a spring and a drainage line connecting to the larger system. Due to the nature of the project the EAP is of the

Identified Sensitivity		Comments
Identified Environmental Themes in terms of Sections 24(5)(a) and (h) and 44 of the National Environmental Management Act 1998, when applying for Environmental Authorization, which were promulgated in Government Notice No. 1150 of 30 October 2020.		opinion that the sensitivity is High. A wetland and aquatic ecological assessment have been commissioned to determine the current state of the systems and larger system connected to it.

2.7 ANIMAL SPECIES THEME

The Screening tool indicated Medium sensitivity due to the possible presence of certain bird species.

Table 7: Verification of DFFE Screening report sensitivity ratings for the Animal Species Theme

Identified Sensitivity		Comments
DFFE Screening Report Medium Specialist Assessment must be done in accordance to the Procedures for the Assessment and Minimum Criteria for Reporting on identified Environmental Themes in terms of Sections 24(5)(a) and (h) and 44 of the National Environmental Management Act 1998, when applying for Environmental Authorization, which were promulgated in Government Notice No. 1150 of 30 October 2020 (i.e.	EAP Feedback Medium	Due to the clearance of vegetation to take place and the fact that some Blue Crane individuals were spotted near the site during the initial site visit an Avifauna and Fauna Impact Assessment is currently underway.

Identified Sensitivity		Comments
protocols for terrestrial plant and animal species.		

2.8 AVIAN THEME SENSITIVITY

The Screening tool noted a Low sensitivity rating.

Table 8: Verification of DFFE Screening report sensitivity ratings for the Avian Theme

Identified Sensitivity		Comments
DFFE Screening Report Low Specialist Assessment must be done in accordance to the Procedures for the Assessment and Minimum Criteria for Reporting on identified Environmental Themes in terms of Sections 24(5)(a) and (h) and 44 of the National Environmental Management Act 1998, when applying for Environmental Authorization, which were promulgated in Government Notice No. 1150 of 30 October 2020.	EAP Feedback Medium	Due to the clearance of vegetation to take place and the fact that some Blue Crane individuals were spotted near the site during the initial site visit an Avifauna and Fauna Impact Assessment is currently underway. VulPro also informed us of Vulture Colonies in a 50km radius of the site.

2.9 PLANT SPECIES THEME SENSITIVITY

Table 9: Verification of DFFE Screening report sensitivity ratings for the Plant Species Theme

Identified Sensitivity		Comments
DFFE Screening Report Low Specialist Assessment must be done in accordance to the Procedures for the	EAP Feedback Low	Desktop Assessment indicated that the vegetation type is characterised as Least

Identified Sensitivity		Comments
Assessment and Minimum Criteria for Reporting on identified Environmental Themes in terms of Sections 24(5)(a) and (h) and 44 of the National Environmental Management Act 1998, when applying for Environmental Authorization, which were promulgated in Government Notice No. 1150 of 30 October 2020.		Concern and the current Land use of grazing. A Terrestrial Plant Species Compliance Statement have been commissioned in accordance with the Protocols (G. NR 1150).

3 CONCLUSION

The DFFE Screening Tool Report identified 13 specialist studies to be conducted as listed on page 6 of this report. Based on the outcomes of this sensitivity verification the following studies were identified as being required:

- Agricultural compliance statement
- Landscape / Visual Assessment
- Archaeological Assessment (Phase 1 HIA)
- Palaeontological Compliance Statement
- Terrestrial Biodiversity Assessment
- Aquatic and Wetland Assessment
- Geotechnical Assessment (Pre-Feasibility)
- Socio-Economic Assessment
- Plant Species Assessment
- Animal Species Assessment (Including Avi-fauna assessment according to guidelines for Solar PV facilities).
- Stormwater Management Plan and Floodline Assessment has also been added.

All sensitivities have been considered within this report.

The Palaeontological, Terrestrial, Avian and Aquatic Themes sensitivities are disputed by this report. The Agriculture, Archaeological, Animal and Plant Species sensitivities are agreed to. Specialist assessments are underway and have been commissioned for the required assessments.

The low sensitivity ratings for the Civil Aviation, Defence and RFI theme is confirmed by the site verification report. No specialist studies have been commissioned for these themes as the project will not have unacceptable negative impacts on any of the identified themes. The stakeholders of these themes will be consulted as part of the EIA process.

