PROPOSED PLATSJAMBOK EAST PV BESS COORDINATES (DD MM SS.sss): CENTRE POINT OF ASSESSMENT AREA

SOUTH	EAST
S30° 2' 8.326"	E22° 30' 28.469"



1 ENVIRONMENTAL IMPACT ASSESSMENT (EIA) METHODOLOGY

The Environmental Impact Assessment (EIA) Methodology assists in evaluating the overall effect of a proposed activity on the environment. Determining of the significance of an environmental impact on an environmental parameter is determined through a systematic analysis.

1.1 Determination of Significance of Impacts

Significance is determined through a synthesis of impact characteristics which include context and intensity of an impact. Context refers to the geographical scale (i.e. site, local, national or global), whereas intensity is defined by the severity of the impact e.g. the magnitude of deviation from background conditions, the size of the area affected, the duration of the impact and the overall probability of occurrence. Significance is calculated as shown in **Table 1**.

Significance is an indication of the importance of the impact in terms of both physical extent and time scale, and therefore indicates the level of mitigation required. The total number of points scored for each impact indicates the level of significance of the impact.

1.2 Impact Rating System

The impact assessment must take account of the nature, scale and duration of effects on the environment and whether such effects are positive (beneficial) or negative (detrimental). Each issue / impact is also assessed according to the various project stages, as follows:

- Planning;
- Construction;
- Operation; and
- Decommissioning.

Where necessary, the proposal for mitigation or optimisation of an impact should be detailed. A brief discussion of the impact and the rationale behind the assessment of its significance has also been included.

The significance of Cumulative Impacts should also be rated (As per the Excel Spreadsheet Template).

1.2.1 Rating System Used to Classify Impacts

The rating system is applied to the potential impact on the receiving environment and includes an objective evaluation of the possible mitigation of the impact. Impacts have been consolidated into one (1) rating. In assessing the significance of each issue the following criteria (including an allocated point system) is used:

 Table 1: Rating of impacts criteria



ENVIRONMENTAL PARAMETER

A brief description of the environmental aspect likely to be affected by the proposed activity (e.g. Surface Water). ISSUE / IMPACT / ENVIRONMENTAL EFFECT / NATURE

Include a brief description of the impact of environmental parameter being assessed in the context of the project. This criterion includes a brief written statement of the environmental aspect being impacted upon by a particular action or activity (e.g. oil spill in surface water).

EXTENT (E)

This is defined as the area over which the impact will be expressed. Typically, the severity and significance of an impact have different scales and as such bracketing ranges are often required. This is often useful during the detailed assessment of a project in terms of further defining the determined.

1	Site	The impact will only affect the site
2	Local/district	Will affect the local area or district
3	Province/region	Will affect the entire province or region
4	International and National	Will affect the entire country
		PROBABILITY (P)
This de	escribes the chance of occurrence of a	n impact
		The chance of the impact occurring is extremely low (Less than a
1	Unlikely	25% chance of occurrence).
		The impact may occur (Between a 25% to 50% chance of
2	Possible	occurrence).
		The impact will likely occur (Between a 50% to 75% chance of
3	Probable	occurrence).
		Impact will certainly occur (Greater than a 75% chance of
4	Definite	occurrence).
		REVERSIBILITY (R)
This de	escribes the degree to which an impact	on an environmental parameter can be successfully reversed upon
comple	ation of the proposed activity.	
		The impact is reversible with implementation of minor mitigation
1	Completely reversible	measures
		The impact is partly reversible but more intense mitigation
2	Partly reversible	measures are required.
		The impact is unlikely to be reversed even with intense mitigation
3	Barely reversible	measures.
4	Irroversible	The impact is irreversible and as mitigation measures evict
4		
This de		
	No loss of resources	The important line transition the lass of enumerous activity.
1	No loss of resource.	The impact will not result in the loss of any resources.
2	Marginal loss of resource	The impact will result in marginal loss of resources.
3	Significant loss of resources	The impact will result in significant loss of resources.
4	Complete loss of resources	The impact is result in a complete loss of all resources.
		DURATION (D)
This de	escribes the duration of the impacts on	the environmental parameter. Duration indicates the lifetime of the
impact	as a result of the proposed activity.	



		The impact and its effects will either disappear with mitigation or will be mitigated through natural process in a span shorter than the construction phase $(0 - 1 \text{ years})$, or the impact and its effects will last for the period of a relatively short construction period and a limited recovery time after construction, thereafter it will be
1	Short term	entirely negated $(0 - 2 \text{ years})$.
0		The impact and its effects will continue or last for some time after the construction phase but will be mitigated by direct human
2	Medium term	action or by natural processes thereafter (2 – 10 years).
		The impact and its effects will continue or last for the entire operational life of the development, but will be mitigated by direct
3	Long term	human action or by natural processes thereafter $(10 - 50 \text{ years})$.
		The only class of impact that will be non-transitory. Mitigation
		either by man or natural process will not occur in such a way or
	D	such a time span that the impact can be considered transient
4	Permanent	
Dest		ISTLY / MAGNITUDE (I / M)
a syste	bes the severity of an impact (i.e. whe m permanently or temporarily).	ther the impact has the ability to alter the functionality or quality of
		Impact affects the quality, use and integrity of the
1	Low	system/component in a way that is barely perceptible.
		Impact alters the quality, use and integrity of the
		system/component but system/ component still continues to
		function in a moderately modified way and maintains general
2	Medium	integrity (some impact on integrity).
		Impact affects the continued viability of the system/component
		and the quality, use, integrity and functionality of the system or
		component is severely impaired and may temporarily cease. High
3	High	costs of rehabilitation and remediation.
		Impact affects the continued viability of the system/component
		and the quality, use, integrity and functionality of the system of
		(system collapse) Rehabilitation and remediation often
		impossible of possible rehabilitation and remediation often
		unfeasible due to extremely high costs of rehabilitation and
4	Very high	remediation.
-	- ,	SIGNIFICANCE (S)

Significance is determined through a synthesis of impact characteristics. Significance is an indication of the importance of the impact in terms of both physical extent and time scale, and therefore indicates the level of mitigation required. This describes the significance of the impact on the environmental parameter. The calculation of the significance of an impact uses the following formula:

Significance = (Extent + probability + reversibility + irreplaceability + duration) x magnitude/intensity.



The summation of the different criteria will produce a non-weighted value. By multiplying this value with the magnitude/intensity, the resultant value acquires a weighted characteristic which can be measured and assigned a significance rating.

Points	Impact Significance Rating	Description
5 to 23	Negative Low impact	The anticipated impact will have negligible negative effects and
		will require little to no mitigation.
5 to 23	Positive Low impact	The anticipated impact will have minor positive effects.
24 to 42	Negative Medium impact	The anticipated impact will have moderate negative effects and
		will require moderate mitigation measures.
24 to 42	Positive Medium impact	The anticipated impact will have moderate positive effects.
43 to 61	Negative High impact	The anticipated impact will have significant effects and will require
		significant mitigation measures to achieve an acceptable level of
		impact.
43 to 61	Positive High impact	The anticipated impact will have significant positive effects.
62 to 80	Negative Very high impact	The anticipated impact will have highly significant effects and are
		unlikely to be able to be mitigated adequately. These impacts
		could be considered "fatal flaws".
62 to 80	Positive Very high impact	The anticipated impact will have highly significant positive effects.

The table below is to be represented in the Impact Assessment section of the report. The excel spreadsheet template can be used to complete the Impact Assessment.



Table 2: Rating of impacts template and example

		ENVIRONMENTAL SIGNIFICANCE BEFORE MITIGATION							NIFIC/ FION	ANCE	DECOMMENDED	ENVIRONMENTAL SIGNIFICANCE AFTER MITIGATION								
ENVIRONMENTAL PARAMETER	ENVIRONMENTAL EFFECT/ NATURE	E	Ρ	R	L	D	I / M	TOTAL	STATUS (+ OR -)	s	MITIGATION MEASURES	E	Ρ	R	L	D	I / M	TOTAL	STATUS (+ OR -)	S
Construction Phase	•																			
Vegetation and protected plant species	Vegetation clearing for access roads, turbines and their service areas and other infrastructure will impact on vegetation and protected plant species.	2	4	2	2	3	3	39	-	Medium	Outline/explain the mitigation measures to be undertaken to ameliorate the impacts that are likely to arise from the proposed activity. These measures will be detailed in the EMPr.	2	4	2	1	3	2	24	-	Low



Operational Phase																				
Fauna	Fauna will be negatively affected by the operation of the wind farm due to the human disturbance, the presence of vehicles on the site and possibly by noise generated by the wind turbines as well.	2	3	2	1	4	3	36	-	Medium	Outline/explain the mitigation measures to be undertaken to ameliorate the impacts that are likely to arise from the proposed activity. These measures will be detailed in the EMPr.	2	2	2	1	4	2	22	-	Low
Decommissioning F	Phase																			
Fauna	Fauna will be negatively affected by the decommissioning of the wind farm due to the human disturbance, the presence and operation of vehicles and heavy machinery on the site and the noise generated.	2	3	2	1	2	3	30	-	Medium	Outline/explain the mitigation measures to be undertaken to ameliorate the impacts that are likely to arise from the proposed activity. These measures will be detailed in the EMPr.	2	2	2	1	2	2	18	-	Low



Cumulative																				
Broad-scale ecological processes	Transformation and presence of the facility will contribute to cumulative habitat loss and impacts on broad-scale ecological processes such as fragmentation.	2	4	2	2	3	2	26	-	Medium	Outline/explain the mitigation measures to be undertaken to ameliorate the impacts that are likely to arise from the proposed activity. These measures will be detailed in the EMPr.	2	3	2	1	3	2	22	-	Low

SCREENING REPORT FOR AN ENVIRONMENTAL AUTHORIZATION OR FOR A PART TWO AMENDMENT OF AN ENVIRONMENTAL AUTHORISATION AS REQUIRED BY THE 2014 EIA REGULATIONS – PROPOSED SITE ENVIRONMENTAL SENSITIVITY

EIA Reference number: TBA

Project name: Plasjambok East

Project title: Plasjambok East

Date screening report generated: 11/10/2020 09:48:13

Dott-Shaw

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Applicant: MAinstream

Compiler: SiVEST

Compiler signature:

Disclaimer applies 11/10/2020

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Proposed Project Location

Orientation map 1: General location



General Orientation: Plasjambok W

Map of proposed site and relevant area(s)



Cadastral details of the proposed site

Property details:

No	Farm Name	Farm/ Erf No	Portion	Latitude	Longitude	Property Type		
1	PLAT SJAMBOK	102	0	30°2'8.73S	22°29'7.31E	Farm		
2	PLAT SJAMBOK	102	0	30°2'8.73S	22°29'7.31E	Farm Portion		

Development footprint¹ vertices: No development footprint(s) specified.

Wind and Solar developments with an approved Environmental Authorisation or applications under consideration within 30 km of the proposed area

No	EIA Reference No	Classification	Status of	Distance from proposed
			application	area (km)
1	12/12/20/2320	Solar PV	Approved	0
2	12/12/20/1722	Solar PV	Approved	17.7
3	14/12/16/3/3/1/454	Solar PV	Approved	23.1
4	12/12/20/2503	Solar PV	Approved	6.8
5	14/12/16/3/3/2/766	Solar PV	Approved	15.8
6	14/12/16/3/3/2/579	Solar PV	Approved	12.1
7	14/12/16/3/3/2/767	Solar PV	Approved	15.8
8	12/12/20/2501	Solar PV	Approved	15.8

¹ "development footprint", means the area within the site on which the development will take place and incudes all ancillary developments for example roads, power lines, boundary walls, paving etc. which require vegetation clearance or which will be disturbed and for which the application has been submitted.

9	14/12/16/3/3/2/765	Solar PV	Approved	15.8
10	12/12/20/2320/2	Solar PV	Approved	12.8
11	14/12/16/3/3/2/579/1	Solar PV	Approved	12.1
12	12/12/20/2502	Solar PV	Approved	17.7
13	12/12/20/2320/4	Solar PV	Approved	0
14	12/12/20/2320/5	Solar PV	Approved	0

Environmental Management Frameworks relevant to the application

No intersections with EMF areas found.

Environmental screening results and assessment outcomes

The following sections contain a summary of any development incentives, restrictions, exclusions or prohibitions that apply to the proposed development site as well as the most environmental sensitive features on the site based on the site sensitivity screening results for the application classification that was selected. The application classification selected for this report is: Infrastructure|Localised infrastructure|Storage|Dangerous Goods|Chemicals|Storage_Chemicals.

Relevant development incentives, restrictions, exclusions or prohibitions

The following development incentives, restrictions, exclusions or prohibitions and their implications that apply to this site are indicated below.

No intersection with any development zones found.

Map indicating proposed development footprint within applicable development incentive, restriction, exclusion or prohibition zones



Project Location: Plasjambok W

Proposed Development Area Environmental Sensitivity

The following summary of the development site environmental sensitivities is identified. Only the highest environmental sensitivity is indicated. The footprint environmental sensitivities for the proposed development footprint as identified, are indicative only and must be verified on site by a suitably qualified person before the specialist assessments identified below can be confirmed.

Theme	Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
Agriculture Theme				Х
Animal Species Theme		Х		
Dago 6 of 17				isclaimer applies

Aquatic Biodiversity Theme	Х			
Archaeological and Cultural			Х	
Heritage Theme				
Civil Aviation Theme				Х
Defence Theme				Х
Paleontology Theme		Х		
Plant Species Theme			Х	
Terrestrial Biodiversity Theme	Х			

Specialist assessments identified

Based on the selected classification, and the environmental sensitivities of the proposed development footprint, the following list of specialist assessments have been identified for inclusion in the assessment report. It is the responsibility of the EAP to confirm this list and to motivate in the assessment report, the reason for not including any of the identified specialist study including the provision of photographic evidence of the site situation.

N o	Speci alist asses smen t	Assessment Protocol
1	Agricul tural Impact Assess ment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/ Gazetted General Agriculture Assessment Protocols.pdf
2	Archae ologica I and Cultura I Heritag e Impact Assess ment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/ Gazetted_General_Requirement_Assessment_Protocols.pdf
3	Palaeo ntology Impact Assess ment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/ Gazetted General Requirement Assessment Protocols.pdf
4	Terrest rial Biodive rsity Impact Assess ment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/ Gazetted Terrestrial Biodiversity Assessment Protocols.pdf
5	Aquati c Biodive rsity Impact Assess ment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/ Gazetted Aquatic Biodiversity Assessment Protocols.pdf
6	Hydrol ogy Assess	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/ Gazetted_General_Requirement_Assessment_Protocols.pdf

	ment	
7	Noise	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/
	Impact	Gazetted Noise Impacts Assessment Protocol.pdf
	Assess	
	ment	
8	Traffic	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/
	Impact	Gazetted General Requirement Assessment Protocols.pdf
	Assess	
0	ment	
9	Geotec	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/
	nnicai	Gazetted_General_Requirement_Assessment_Protocols.pdf
	Assess	
1	Socio	https://sereeping.opuireepment.gov.zo/SereepingDownloads/AssessmentBrotocols/
0	Econo	nttps://screening.environment.gov.za/screeningDownloads/AssessmentProtocols/
0	mic	Gazetted_General_Requirement_Assessment_Protocols.pdf
	Assoss	
	411511	
	ment	
1	ment Plant	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/
1 1	Ment Plant Species	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/
1 1	Assess ment Plant Species Assess	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/ Gazetted General Requirement Assessment Protocols.pdf
1 1	Assess ment Plant Species Assess ment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/ Gazetted General Requirement Assessment Protocols.pdf
1 1	Assess ment Plant Species Assess ment Animal	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/ Gazetted_General_Requirement_Assessment_Protocols.pdf https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/
1 1 1 2	Assess ment Plant Species Assess ment Animal Species	<u>https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/</u> <u>Gazetted_General_Requirement_Assessment_Protocols.pdf</u> <u>https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/</u> Gazetted_General_Requirement_Assessment_Protocols.pdf
1 1 1 2	Assess ment Plant Species Assess ment Animal Species Assess	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/ Gazetted General Requirement Assessment Protocols.pdf https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/ Gazetted General Requirement Assessment_Protocols.pdf

Results of the environmental sensitivity of the proposed area.

The following section represents the results of the screening for environmental sensitivity of the proposed site for relevant environmental themes associated with the project classification. It is the duty of the EAP to ensure that the environmental themes provided by the screening tool are comprehensive and complete for the project. Refer to the disclaimer.



MAP OF RELATIVE AGRICULTURE THEME SENSITIVITY

Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			Х

Sensitivity	Feature(s)
Low	Land capability;01. Very low/02. Very low/03. Low-Very low/04. Low-Very low/05. Low

Image: sector combined sensitivity High High

MAP OF RELATIVE ANIMAL SPECIES THEME SENSITIVITY

Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	Х		

Sensitivity	Feature(s)
High	Aves-Neotis ludwigii



MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY

Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
x			

Sensitivity	Feature(s)
Low	Low sensitivity
Very High	Freshwater ecosystem priority area quinary catchments

MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		Х	

Sensitivity	Feature(s)
Medium	Mountain or ridge



MAP OF RELATIVE CIVIL AVIATION THEME SENSITIVITY

Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			Х

Sensitivity	Feature(s)
Low	Low sensitivity

Control of the contr

	OF	DEL /	TIVE	DEE	ENCE	THEME	CENC	עדוגעדיג	7
MAP	UГ	KELF	AIIV C	DEL	CINCE	ΙΠΕΙΜΕ	2CIN2		Ĺ

Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			Х

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity

Plentology combined Sensitivity Hgin Burgers EAA, HERSE, Stemma, VISSS, Informers, NISSERMENT PA NERsen, Stemator, Stati Accord, Stati Accord

MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY

Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	Х		

Sensitivity	Feature(s)
High	Rock units with a high paleontological sensitivity
Medium	Rock units with a medium paleontological sensitivity



MAP OF RELATIVE PLANT SPECIES THEME SENSITIVITY

Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		Х	

Sensitivity	Feature(s)
Medium	Sensitive species 44



MAP OF RELATIVE TERRESTRIAL BIODIVERSITY THEME SENSITIVITY

Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
Х			

Sensitivity	Feature(s)
Low	Low Sensitivity
Very High	Freshwater ecosystem priority area quinary catchments

From:	
To:	
Subject:	
Date:	
Attachments:	

Liandra Scott-Shaw "IQ" RE: IQ/20/0121: External Peer Reviewer/ Specialists Wednesday, 15 April 2020 12:08:46 PM image001.png image003.png

Dear Chantal

Thank you very much for the feedback and for the clarity.

Kind regards

Liandra Scott-Shaw (Pr.Sci.Nat) Environmental Scientist SiVEST Environmental Division



SiVEST is a Level 3 BBBEE Contributor

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From: IQ [mailto:IQ@environment.gov.za] Sent: Wednesday, 15 April 2020 11:55 AM To: Liandra Scott-Shaw Subject: IQ/20/0121: External Peer Reviewer/ Specialists

Dear Liandra

A specialist permanently employed by an EAP is regarded as independent, provided he has no vested interest in the project and receives fair and normal remuneration of the work. In this instance no external peer review of reports is required, unless the competent authority has reason to believe that the EAP or specialist is not complying or has not complied with the requirements of regulation 13 of the EIA regulations, as amended, in respect of the application.

For an example, where an engineering company has a vested interest in the final design or future engineering contracts for a particular project and the in-house EAPs and /or specialists are used for the environmental component of the project, then the EIA and specialist reports must be externally peer reviewed prior to the commencement of the public participation processes.

If there is reasonable suspicion that the objectivity of a specialist may be compromised, then the competent authority has the power to request that an external peer review of that particular study/studies be undertaken in terms of Regulation 14.

Further to the above, all specialists are required to sign a declaration of independence which must be submitted with their reports. Should the specialist is found not to be independent, then the process specified in Regulation 14 would apply, similar to when it relates to an EAP.

Kind regards Chantal Engelbrect

From: Liandra Scott-Shaw [mailto:LiandraS@sivest.co.za] Sent: Thursday, 09 April 2020 12:15 To: IQ <IQ@environment.gov.za> Subject: External Peer Reviewer/ Specialists

Dear IQ

If an EAP uses internal specialists (specialists and EAP from the <u>same</u> company) to undertake specialist work according to Appendix 6 of the Regulations, can the EAP be forced to appoint a peer reviewer and / or external specialist in the absence of Regulation 14 being enforced?

Kind regards

Liandra Scott-Shaw (Pr.Sci.Nat) Environmental Scientist SiVEST Environmental Division



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