

NOTIFICATION OF INTENT TO DEVELOP

Digby Wells VED 1565
Reference:

DEA 14/12/16/3/3/3/80
Reference:

HERITAGE STATEMENT FOR THE VEDANTA IPP PROJECT, LEPHALALE, LIMPOPO PROVINCE

1 INTRODUCTION

Digby Wells Environmental (hereafter Digby Wells) has been requested by Vedanta Resources PLC (Vedanta) to submit a Heritage Statement for the following:

- Vedanta Independent Power Producer (IPP) Project

1.1 Project Location

Name of property	Vedanta IPP
Erf or farm number/s	Dalyshope 232 LQ Hardekraalte 212 LQ Sussex 17 LQ
Coordinates of approximate centre of project area	S23°34'10.19" E27°15'21.15"
Town or District	Steenbokpan (15 km) Lephalale (52 km)
Responsible Municipality	Waterberg District Municipality
Extent of property	Dalyshope 232 LQ: 917.92 ha Hardekraalte 212 LQ: 1450.08 ha Sussex 17 LQ: 1147.89 ha
Maximum extent of proposed development	100 ha
Current use	Mixed agriculture and game farming
Predominant land use/s of surrounding properties	Grazing, crops, hunting tourism, farm residences

1.2 Registered Owners of Properties

Name	Property	Notified
Anglo American Thermal Coal	Dalyshope 232 LQ	Yes, via registered mail
Pasch Johan Adam van der Walt	Hardekraalte 212 LQ	Yes, via registered mail
Leonia Steenberg	Sussex 17 LQ	Yes, via registered mail

2 PROJECT DETAILS

Vedanta is investigating the proposed development of a 600 MW coal-fired power station in the Waterberg District. The farm Dalyshope 232 LQ is currently being considered for the development of the power station and associated infrastructure and the farms Hardekraalte 212 LQ and Sussex 17 LQ are possible alternatives for the IPP power station. The location of the power station will be dependent on the location and presence of water resources and any potential environmental fatal flaws that may prevent construction. The power station footprint will be 100 ha which excludes the ash dump.

The power station will obtain coal from the adjacent Dalyshope Coal Mine which is still in its feasibility development phase. The power generated will be supplied into the National grid for off take at Vedanta's operations in the Northern Cape.

2.1 NHRA Section 38 Triggers

The following aspects of Section 38 of the NHRA may be triggered by the proposed project.

	NHRA Section 38 (1) Activities/Triggers		Summary description (E.g. 500 m conveyor belt, open cast pit, etc.)
<input checked="" type="checkbox"/>	a	Any linear development or barrier >300 m	Construction of pipelines and powerlines
<input type="checkbox"/>	b	Any bridge or similar structure >50 m	
<input checked="" type="checkbox"/>	c	Any development or activity that will change the character of a site:	
<input checked="" type="checkbox"/>	i	≥5 000m ² in extent	The footprint of IPP power station will be approximately 100 ha in extent
<input type="checkbox"/>	ii	Involving ≥3 existing erven/subdivisions	
<input type="checkbox"/>	iii	Involving ≥3 or more erven/divisions consolidated within	

		NHRA Section 38 (1) Activities/Triggers	Summary description (E.g. 500 m conveyor belt, open cast pit, etc.)
		past 5 years.	
<input type="checkbox"/>	d	Rezoning of a site $\geq 10\,000\text{m}^2$ in extent.	
<input checked="" type="checkbox"/>	e	Other triggers, e.g.: in terms of other legislation, (i.e.: National Environment Management Act, etc.)	NEMA, NEMWA

2.2 Activities

The following activities will take place during the lifespan of the proposed Project.

NEMA Activity No.	NHRA Trigger	Description	Expected duration/phase
GN R544(2)	38(1)(c)(i)	Construction of low grade stock pile yard	Construction phase
GN R544(9)(ii)	38(1)(a)	Construction of pipelines	Construction phase
GN R544(12)	38(1)(c)(i)	Construction of a raw water storage dam	Construction phase
GN R544(22)(ii)	38(1)(a)	Construction of an access road	Construction phase
GN R545(1)	38(1)(c)(i)	Construction of a 600MW low grade coal-fired thermal power plant	Construction phase
GN R545(6)	38(1)(a)	Construction of conveyors for the transport of coal to the power plant	Construction phase
GN R545(8)	38(1)(a)	Transport of generated electricity to the existing national grid	Construction phase
GN R545(15)	38(1)(c)(i)	Construction of the power plant, ash dumps, and associated infrastructure	Construction phase

2.3 Additional Impact Assessment Process

The following impact assessment process is currently being undertaken for the proposed Project.

Legislation, i.e. NEMA, MPRDA, etc.	NEMA
Consenting Authority that has/will receive information	DEA
Present phase of process at Authority, e.g. Draft Scoping Report	Draft Scoping Report

3 IDENTIFIED/KNOWN HERITAGE RESOURCES AND POTENTIAL IMPACTS

The following categories of heritage resources as defined in Section 3 of the NHRA are known to occur within the proposed Project Area.

<input type="checkbox"/>	3(2)(a)	Places, buildings, structures and equipment of cultural significance
		<i>Description of resource:</i>
		<i>Potential impact:</i>
<input type="checkbox"/>	3(2)(b)	Places to which oral traditions are attached or which are associated with living heritage
		<i>Description of resource:</i>
		<i>Potential impact:</i>
<input type="checkbox"/>	3(2)(c)	Historical settlements and townscapes
		<i>Description of resource:</i>
		<i>Potential impact:</i>
<input type="checkbox"/>	3(2)(d)	Landscapes and natural features of cultural significance
		<i>Description of resource:</i>
		<i>Potential impact:</i>
<input type="checkbox"/>	3(2)(e)	Geological resources of scientific or cultural importance
		<i>Description of resource:</i>
		<i>Potential impact:</i>
<input checked="" type="checkbox"/>	3(2)(f)	Archaeology and/or palaeontology (Including archaeological sites and material, fossils, rock art, battlefields & wrecks)
		<i>Description of resource:</i> Stone Age lithics and Iron Age ceramics
		<i>Potential impact:</i> Possible destruction and/or alteration of subsurface archaeological and palaeontological resources and unknown resources through ground clearance and construction



<input checked="" type="checkbox"/>	3(2)(g)	Graves and burial grounds (e.g.: ancestral graves, graves of victims of conflict, historical graves & cemeteries)
		<i>Description of resource:</i> Burial grounds and graves
		<i>Potential impact:</i> Possible destruction and/or damage to known and unknown graves on the properties through ground clearance and construction
<input type="checkbox"/>	3(2)(a)	Other human remains
		<i>Description of resource:</i>
		<i>Potential impact:</i>
<input type="checkbox"/>	3(2)(h)	Sites of significance relating to the history of slavery in South Africa
		<i>Description of resource:</i>
		<i>Potential impact:</i>
<input type="checkbox"/>	3(2)(i)	Movable objects
		<i>Description of resource:</i>
		<i>Potential impact:</i>

3.1 Illustrative Material

Plan 2 on Page 6 illustrates the local setting of the Vedanta IPP Project Area. For additional maps, please see the Heritage Statement for the Vedanta IPP Project, Lephalale, Limpopo Province.

4 RECOMMENDATION

Is a Heritage Impact Assessment required?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
If NO, provide motivation:			
If YES, provide suggested components that may be required or undertaken during HIA.			
<input checked="" type="checkbox"/>	Archaeology	<input type="checkbox"/>	Architecture
<input checked="" type="checkbox"/>	Built Environment	<input checked="" type="checkbox"/>	Burial Grounds and Graves
<input checked="" type="checkbox"/>	Palaeontology	<input checked="" type="checkbox"/>	Public Participation
<input type="checkbox"/>	Townscapes	<input checked="" type="checkbox"/>	Visual Impact
<input type="checkbox"/>	Other:		
Recommendation made by: Digby Wells Environmental			
Name: Shahzaadee Karodia			
Capacity: Archaeology Consultant			

Vedanta IPP

Regional Setting

1:50 000

Legend

Site Alternatives

- Preferred Site
- Alternative Site 1
- Alternative Site 2

2327AC Horseshoe Bend
2327AD Stockpoort
2327CA Hardekraaltjie
2327CB Steenbokpan



DIGBY WELLS
ENVIRONMENTAL

• Sustainability • Service • Positive Change • Professionalism • Future Focused • Integrity

Geographic Coordinate System	Ref #: scc.VED1565.201305.144
Datum: WGS 1984	Revision Number: 1
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