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ENVIRONMENTAL



Environmental Authorisation Application for the Namane IPP Project, Duikerpan 249LQ, Lephalale Local Municipality, Limpopo Province

Notification of Intent to Develop

Project Number:

NAM3248

Prepared for:

Namane Generation (Pty) Ltd

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Digby Wells and Associates (South Africa) (Pty) Ltd
(Subsidiary of Digby Wells & Associates (Pty) Ltd). Co. Reg. No. 2010/008577/07. Turnberry Office Park, 48
Grosvenor Road, Bryanston, 2191. Private Bag X10046, Randburg, 2125, South Africa
Tel: +27 11 789 9495, Fax: +27 11 789 9498, info@digbywells.com, www.digbywells.com

Directors: DJ Otto, GB Beringer, LF Koeslag, AJ Reynolds (Chairman) (British)*, J Leaver*, GE Trusler
(C.E.O)
*Non-Executive



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Project Name:	Environmental Authorisation Application for the Namane IPP Project, Duikerpan 249LQ, Lephale Local Municipality, Limpopo Province
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Name	Responsibility	Signature	Date
Natasha Higgitt Assistant Heritage Resources Management Consultant ASAPA Member No.335	NID Compilation		13 November 2015
Justin du Piesanie Heritage Resources Management Consultant ASAPA Member No: 270	Reviewer		28 October 2015

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1 Introduction

Digby Wells Environmental (Digby Wells) was appointed by Namane Generation (Pty) Ltd (Namane) to undertake an Environmental Authorisation (EA) Application. The EA application is for an Independent Power Producer (IPP) on the farm of Duikerpan 249LQ, Lephalale Local Municipality, Limpopo Province. The EA process will be completed in accordance with the National Environmental Management Act, 1998 (Act No. 107 of 1998) (NEMA) and Environmental Impact Assessment (EIA) Regulations, 2014.

The EA process includes the following:

- Compilation of an EIA process which consists of:
 - A Scoping Report
 - An Environmental Impact Assessment Report (EIAR); and
 - An Environmental Management Programme (EMP).

1.1 Project Location

Table 1-1: Location data for the proposed IPP Project

Name of property/ies	Duikerpan
Erf or farm number/s	Duikerpan 249LQ
Coordinates of approximate centre of project area	-23.596397
	27.290909
Magisterial District	Lephalale Magisterial District
District Municipality	Waterberg District Municipality
Local Municipality	Lephalale Local Municipality
Maximum extent of proposed development	3.6 ha
Current use	Agricultural and grazing activities
Predominant land use/s of surrounding properties	Agricultural and grazing activities

2 Project / Development Details

Namane, through its subsidiaries Namane Energy (Pty) Limited (Namane Energy) and Namane Generation (Pty) Limited (Namane Generation), is proposing the construction of a proposed IPP station on the farm Duikerpan 249 LQ



2.1 NHRA Section 38 Triggers

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

Table 2-1: NHRA Section 38 Triggers for the proposed IPP Project

	NHRA Section 38 (1) Activities / Triggers		Summary description (e.g. 500 m conveyor belt, open cast pit, etc.)
<input type="checkbox"/>	a	Any linear development or barrier >300 m	None: No linear developments will be constructed
<input type="checkbox"/>	b	Any bridge or similar structure >50 m	None: as above.
<input checked="" type="checkbox"/>	c	Any development or activity that will change the character of a site:	The IPP is estimated to cover 3.6 ha.
<input checked="" type="checkbox"/>	i	≥5 000m ² in extent	
<input type="checkbox"/>	ii	Involving ≥3 existing erven/ subdivisions	
<input type="checkbox"/>	iii	Involving ≥3 or more erven/ divisions consolidated within past 5 years.	
<input type="checkbox"/>	d	Rezoning of a site ≥10 000 m ² in extent.	None: no rezoning will be required
<input checked="" type="checkbox"/>	e	Other triggers, e.g.: in terms of other legislation, (i.e.: National Environment Management Act, etc.)	<p>An assessment of possible impacts on cultural heritage is required in terms of:</p> <ul style="list-style-type: none"> ■ The National Environmental Management Act, 1998 (Act 107 of 1998) (NEMA) and the EIA Regulations, 2014

2.2 Activities

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

Table 2-2: Activities for the proposed IPP Project

GNR and Listing No.	Listed Activity	Project activity description	NHRA Trigger
GNR 983 Listing 1	Activity 9	The development of infrastructure exceeding 1000 metres in length for the bulk transportation of water or storm water	Section 38 (1)(a) and 38 (8)



	Activity 24 (ii)	A permanent access road will need to be constructed and maintained throughout the operational and decommissioning phase	Section 38 (1)(a) and 38 (8)
	Activity 27 (i)	The clearance of an area of 1 hectares or more, but less than 20 hectares of indigenous vegetation	Section 38 (1)(c)(i) and 38 (8)
GNR 984 Listing 2	Activity 2	The development and related operation of facilities or infrastructure for the generation of electricity from a non-renewable resource where the electricity output is 20 megawatts or more	Section 38 (8)
	Activity 7 (iii)	The development and related operation of facilities or infrastructure for the bulk transportation of dangerous goods i.e. conveyor belt	Section 38 (1)(a) and 38 (8)
	Activity 9	The development of facilities or infrastructure for the transmission and distribution of electricity with a capacity of 275 kilovolts or more, outside an urban area or industrial complex.	Section 38 (1)(a) and 38 (8)
	Activity 11	The development of facilities or infrastructure for the transfer of 50 000 cubic metres or more water per day	Section 38 (1)(c)(i) and 38 (8)

2.3 Additional Impact Assessment Process

The following impact assessment process/es are currently being undertaken for the proposed project.

Table 2-3: Current legal process for the proposed IPP Project

Legislation, i.e. NEMA, MPRDA, etc.	NEMA
Consenting Authority that has/will receive information	Department of Environmental Affairs
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.

Table 3-1: Identified heritage resources

<input type="checkbox"/>	3(2)(a)	Places, buildings, structures and equipment of cultural significance
		<u>Description of resource:</u> Historical built environment have been identified in the surrounding areas, however none have been identified within the project area.
		<u>Potential impact:</u> The proposed project activities will not significantly impact historical heritage resources
<input type="checkbox"/>	3(2)(b)	Places to which oral traditions are attached or which are associated with living heritage
		<u>Description of resource:</u> None
		<u>Potential impact:</u> None
<input type="checkbox"/>	3(2)(c)	Historical settlements and townscapes
		<u>Description of resource:</u> None
		<u>Potential impact:</u> None
<input type="checkbox"/>	3(2)(d)	Landscapes and natural features of cultural significance
		<u>Description of resource:</u> None
		<u>Potential impact:</u> None
<input checked="" type="checkbox"/>	3(2)(e)	Geological resources of scientific or cultural importance
		<u>Description of resource:</u> The project area is underlain by the Eendragtpan and Grootegeeluk Formations within the Karoo Supergroup.
		<u>Potential impact:</u> Project activities will not cause a significant impact to any geological resources.
<input checked="" type="checkbox"/>	3(2)(f)	Archaeology and/or palaeontology (Including archaeological sites and material, fossils, rock art, battlefields & wrecks)



		<p><u>Description of resource:</u> Archaeological resources such as surface scatters of stone tools and pot sherds within the project area and surrounding area.</p> <p>The project area is underlain by the Eendragtpan and Grootegeluk Formations within the Karoo Supergroup. These formations are of low to very high palaeontological sensitivity.</p> <p><u>Potential impact:</u> Project activities may damage and/or destroy archaeological resources located within the project footprint.</p> <p>Project activities will not cause a significant impact to any palaeontological resources.</p>
<input type="checkbox"/>	3(2)(g)	<p>Graves and burial grounds</p> <p><u>Description of resource:</u> Burial grounds and graves have been recorded within the local study area; however none have been identified within the project area.</p> <p><u>Potential impact:</u> None</p>
<input type="checkbox"/>	3(2)(a)	<p>Other human remains</p> <p><u>Description of resource:</u> None identified, but likelihood that human remains associated with archaeological sites may be found during the course of project development.</p> <p><u>Potential impact:</u> Accidental exposure and possible destruction of archaeological burials and remains</p>
<input type="checkbox"/>	3(2)(h)	<p>Sites of significance relating to the history of slavery in South Africa</p> <p><u>Description of resource:</u> None</p> <p><u>Potential impact:</u> None</p>
<input type="checkbox"/>	3(2)(i)	<p>Movable objects</p> <p><u>Description of resource:</u> None</p> <p><u>Potential impact:</u> None</p>

3.1 Illustrative Material

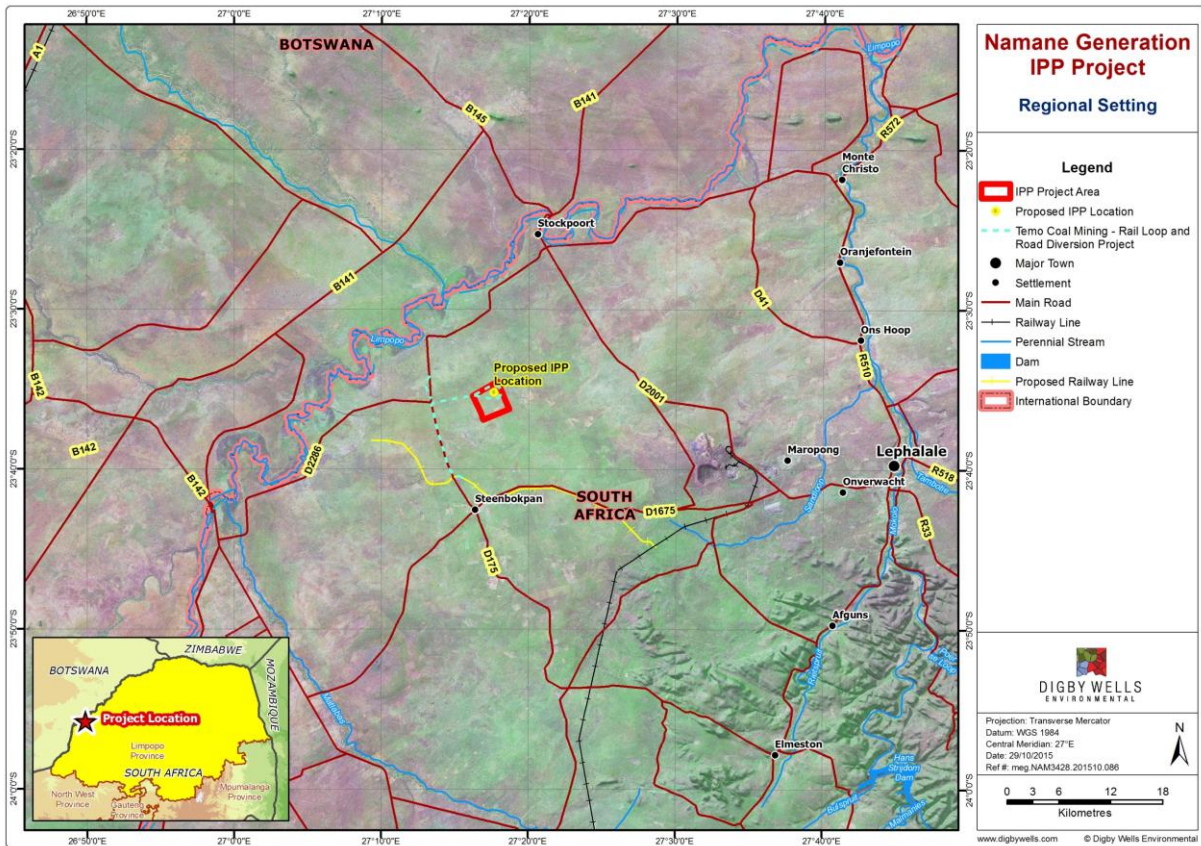


Figure 3-1 Regional setting of the proposed IPP Project

4 Recommendation

Table 4-1: Recommendations for the proposed IPP Project

Is a Heritage Impact Assessment required?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
If NO, provide motivation:		
<p>Based on an understanding of the cultural landscape and the identified heritage resources within the project area, and the proposed project activities, the following recommendations are made:</p> <ul style="list-style-type: none"> ■ Exemption from further palaeontological assessments for the proposed infrastructure footprint due to the limited impact of the project activities on the geological formations; ■ An HRM process inclusive of the following be undertaken as part of the EA Application that includes the following heritage components: 		

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- A Heritage Scoping Report (HSR);
- An Archaeological Impact Assessment including reconnaissance to identify and record archaeological resources within the impact footprint.

Recommendation made by:

Name: Natasha Higgitt

Capacity: Assistant Heritage Resources Management Consultant: Archaeology Specialist