

BACKGROUND INFORMATION DOCUMENT (BID) OPERATION OF THE OMBURU SUBSTATION, ERONGO REGION



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1. INTRODUCTION

NamPower intends to upgrade the existing Omburu Substation and the substation was constructed and commissioned in 1975. The Omburu Substation is located approximately 12 km from the town of Omaruru. The substation can be accessed via the Omaruru-Willehm Stahl Gravel road. The proposed upgrade is due to the proposed Omburu 20 MW PV and future upgrades and operational activities.

As per the Environmental Impact Assessment (EIA) Regulations, upgrades of the this nature and some of the operational activities NamPower will be undertaking at the substation are listed activities and will therefore require clearance from the Ministry of Environment and Tourism (MET). NamPower intends to apply for the operational Environmental Clearance for the Omburu Substation by submitting an operational Environmental Management Plan for the Omburu Substation.

2. PROJECT DESCRIPTION

The development is considered as a brownfield development as there is an existing substation already and the proposed development is aimed at upgrading the existing substation.

Table 1: Description of proposed activities

General Identifiers	Description
Footprint (Land Size)	<ul style="list-style-type: none">84 Hectares
Type of project	<ul style="list-style-type: none">Upgrading of existing substation.
	<ul style="list-style-type: none">Latitude: -21496963Longitude: 16.029280
Type of Infrastructure	<ul style="list-style-type: none">Substation
Duration of project	<ul style="list-style-type: none">A construction period of ±12 months
Estimate of Number of people to be involved.	<ul style="list-style-type: none">Approximately 60 including NamPower Employees.

<p>Activities to be carried out on site</p>	<p>Upgrade activities</p> <ul style="list-style-type: none"> • Establishment of construction site • Excavation and civil works • Concrete and form works • Mechanical and Electrical erection • Substation yard cleaning and construction site rehabilitation. • Provide yard stoning for the entire fenced off area. The size of the yard stones shall be > 20mm (preferably 35 to 40mm) in diameter and shall be laid 100 to 150mm thickness. • Provide Labels for all relevant HV Equipment. • Supply and mount all Information- and Warning Labels. <p>Operational activities will include:</p> <ul style="list-style-type: none"> • The substation is manned . • Transform voltage from high to low. • Maintenance of the electrical equipment , NamPower will maintain the substation to ensure its reliability and safety and annual review will be conducted and any maintenance to be carried out as required. • General site inspection to be carried out by the technical and Safety ,Health , Environment and Wellness Departments. • Extension or upgrading of the substation infrastructures in terms of additional line bays. • Connection of new transmission lines to the substation . • Herbicide application to manage vegetation with the Substation yard.
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Alternatives	<ul style="list-style-type: none"> • Alternative sites could not be considered as the Substation site was selected due to the brownfield nature of the site, land availability and the demand for electricity in the area.
Type of Contractor	<ul style="list-style-type: none"> • Internal and external contractor.
Listed Activity triggered	<ul style="list-style-type: none"> • Transmission and supply of electricity • Upgrading of the existing of roads and design of associated physical infrastructure • Communication network including towers and telecommunication (OPGW) • Storage and handling of dangerous goods, including petrol, diesel, liquid petroleum gas or paraffin.

Appendix

(a) Existing substation.

