LANSERIA EXT 79

ERVEN 5/6

Reference: 3

Prepared for: Growthpoint

Revision: 0

4 April 2025

ELECTRICAL INFRASTRUCTURE SERVICES

1. TERMS OF REFERENCE

The electrical consultants were briefed on the extent of the electrical load profile planned for the development and was requested to provide a technical framework for the electrical bulk approach services required to site.

Technical discussion with Eskom as the Supply Authority has reference. The existing Eskom MV network in the selected area does not have sufficient spare capacity to cater for this new load. A new Eskom MV feeder to be constructed from the existing 88/11KV Lanseria substation to the development site. Lanseria Ext 11 and Ext 79 are adjacent to each other and will be notarially tied. Eskom proposed that a formal application to be submitted to Eskom for Lanseria Ext 11, Erven 932-933 and to be based on Eskom Self-Built contract. An application for a Self-Built project was submitted to Eskom – LAN570530874V1 and is currently in the concept phase.

The total electrical demand for the development site (Ext 11 and Ext79) will be 2'500KVA/11KV and a new MV feeder to be erected from the existing Eskom Lanseria substation to the development site. Eskom is also presently planning to upgrade the capacity of the Lanseria substation networks which will assist to provide the required capacity to the development. The first phase of the development will require an electrical connection of 2'500KVA/11KV.

2. STRATEGIC COMPONENTS OF THE ELECTRICAL INSTALLATION

The following aspects will be finalized with Eskom planning department for the implementation of Eskom bulk approach services:

Position of point of supply onto the site will require an electrical servitude of minimum, 3meters by 7.5meters for the MV switchgear and metering equipment
The existing electrical networks and systems presently available, cannot be incorporated into the new MV bulk approach networks
Location and routes of supply cables and lines will be finalized with Eskom planning department – the Eskom servitudes required will form part of the Eskom implementation plan. The bulk approach services will be planned along formal road infrastructure to minimize the impact on the environment and adjacent developments.

Security of supply is based on a MV ring feed to the development. Eskom planning will be requested to assist where possible to provide MV ring feeder cable networks to the development site

3. AESTHETICS AND ECOLOGICAL CONSIDERATIONS

Aesthetical problems caused by electrical equipment are inter alia, visual pollution of the environment. The final positions of the electrical infrastructure shall be selected in order to minimize the said pollution and to be planned along existing roads where possible.

4. ESKOM APPLICATION SUBMITTED

A formal application was submitted to Eskom based on the following parameters:

ITEM	Electrical factors
Site Ext 11, erven 932-933 - total connected load	2'500KVA
Site Ext 11, erven 932-933 – Eskom Supply Voltage	11KV
Eskom servitude required for bulk metering	3.0m x 7.5m
Eskom application contract	Self-Built contract
Eskom submission reference number	LAN570530874V1

5. ANNEXURE A


Lanseria Substation
Aeronav Academy
Aspire Aviation
CSA Aviation (Pty) Ltd
Cirrus South Africa
Aircraft Maintenance
Lanseria
SAMSIX Car Rental
Lanseria Airport
My Lam Plaas, Lanseria
Europcar
Lanseria Airport
ExecuJet Lanseria
FBO (FALA/HLA)
Lanseria
International
Airport
King Brands
Ext 79
Lanseria International
Airport Trading
Eco Grass South Africa
Copper Lake Breweries
Ila AH
AIPLA Lanseria
Fairacres Products
Lanseria Farm
Ext 11
Geomechanics (Pty)
Lanseria Lodge
The Generator King
Google