



de villiers & moore
CONSULTING ENGINEERS
Electrical, Mechanical, Fire

Our Ref: E5422M/L004
Date: 2026-04-23

Your Ref:

The Municipal Manager
Knysna Municipality
Electrotechnical Department

Attention: Ms N Xakata

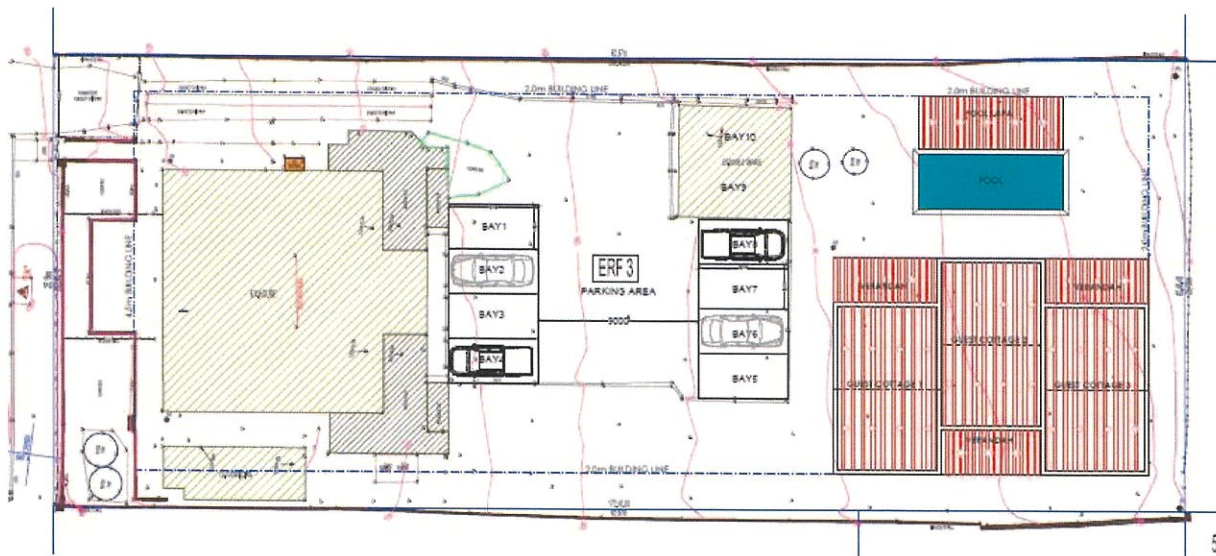
Madam

KNYSNA: ERF 3: WATER VIEW VILLAS: PHASE 2
PROPOSED UPGRADE OF BULK ELECTRICAL SERVICES: REV 000

This report has been compiled by de Villiers & Moore Consulting Engineers, having been instructed by our client with purpose of informing the team of the extent of the electrical bulk services required to be put into place to provide the electrical supply to the Development.

LOCATION

The building will be situated on erf 3 on Circular Drive in the administrative district of KNYSNA Municipality.



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Directors: R.G HALL Pr Eng B.Sc Eng, C.H. KOCH Pr Eng B.Eng, T.H. HEYNS Pr Tech Eng, W.J. BADENHORST Pr Tech Eng, G.F. ARENDSE Pr Tech Eng

SUPPLY AUTHORITY

The Development is situated in the electrical supply area of Knysna Municipality.

DRAWINGS

Attached is drawing dated January 2026 by Eden Geomatics.

THE DEVELOPMENT

The Development consists of 6 units which are run as guest cottages. Three units are existing and the proposal is to build another three units.

The Development will be done in one phase.

EXISTING ELECTRICAL DISTRIBUTION NETWORK

The closest existing point of supply is from the existing kiosk which currently supplies the erf with a 60A single phase connection. It was confirmed that there is sufficient electrical capacity to supply this upgrade.

DEMAND REQUIREMENTS

The demand calculated for the development is calculated at 30A three phase and this will be taken into account when calculating the Capital Contributions.

PROPOSED ELECTRICAL LV DISTRIBUTION NETWORK

Point of Connection

The existing cable from the mini-substation to the existing metering kiosk has sufficient capacity and will be retained. It is required to install a 30A three phase mcb and meter for this Development in the existing kiosk.

From this point, a new underground 16mm² x 4c(Cu) PVC SWA PVC + 10mm² ECC cable will be routed to connection point on the building within the Development.

Detailed design drawings will be submitted to the KNYSNA Municipality prior to final approval for comment and subsequent approval.

METERING AND RESPONSIBILITY

On completion of the installation and after the one-year guarantee period, the responsibilities will be as follows:

- The Knysna Municipality will be responsible for the maintenance of the cable supplying the Metering Kiosk and the Metering Kiosk.
- The low voltage cables from this Metering Kiosk will be the responsibility of the Client.
- The Client will receive one electrical account from the Knysna Municipality

ENERGY SAVING MEASURES

The use of the following equipment will be made mandatory:

- Water heating to be done using gas or heat pumps.
- Lighting to make use of LED lamps only.
- Use of motion sensor lighting control.
- Photovoltaic Systems will be encouraged.

COST ESTIMATE AND ELECTRICAL DEVELOPMENT CHARGES

The Client will be responsible for all costs associated with the supply and installation of the electrical infrastructure required to service the Development.

A detailed design of the proposed low voltage and earthing will be submitted to Knysna Municipality for approval prior to construction commencing on site.

A detailed cost estimate will be submitted as part of a different reporting process.

The development will attract Capital Contributions as published in the Municipal Tariff Structure and the cost of these tariffs is attached to the report.

A summary of the estimated cost for the capital contributions is (Amounts INCLUDE VAT):

Three Phase Service Connection	R24 343-92
MV Capital Contributions	R30 064-13
LV Capital Contributions	R19 317-99

It is noted that the amount is adjusted each year at the end of June.

IMPACT

1. Impact on Existing Electricity Consumers
The development will have no detrimental effect on the quality of supply to the existing consumers due to the fact that the development will be supplied by its own LV feeder directly from an existing kiosk and confirmation has been obtained that there is sufficient capacity.
- 2) Impact on Distribution Authority Operating Costs
The development will have no negative effect on the electrical costs of the distribution authority, due to the fact that the complete electrical infrastructure required for the development will be supplied and installed by the Developer.
- 3) Impact on the Environment
The internal electrical infrastructure design will take into account energy saving technologies which may include load control, the use of energy efficient lighting, the use of alternative means of water heating and inverter type HVAC equipment

CONCLUSION

We trust the information provided is of sufficient detail to allow for an informed decision to be made. Please do not hesitate to contact the undersigned should additional information be required.

Yours faithfully



R G HALL Pr Eng
DE VILLIERS & MOORE (PTY) LTD

Date: 23 April 2026
Job Card No: 0
Collab No: N/A
By: Neziswa Xakata



Consumer Name: de villiers & moore Consulting Engineers
Consumer Address: 3
Erf Number: Erf 193 Paradise
Mobile Number: 083 453 3008
Email Address:
Quote Description: Upgrade from 60A 1-Phase to 30A 3-Phase

Existing Notified Demand:

Required ND: 20.7 kVA

Item	Cost
Sundries	R -
Labour	R -
Sub Total	R -
15% Admin	R -
15% VAT	R -
TOTAL DUE VAT INCLUDED	R -

MV Capital Contribution:-

ERUs = {(Amps/phase required/45) * 3*1Nf}
ERUs = {(10A/45) * 3*1 Nf}
ERUs = 0,75

Rate = 0,75* R34 856,96 R 26 142,72

15% VAT	R 3 921,41
TOTAL DUE VAT INCLUDED	R 30 064,13

LV Capital Contribution:-

630kVA TRFR and required 27,6kVA = 2,90 % Payable R 16 798,25

630kVA = R 579250

15% VAT	R 2 519,74
TOTAL DUE VAT INCLUDED	R 19 317,99

Cost Summary:-

Three Phase Service Connection R 24 343,92
MV Capital Contribution:- R 30 064,13
LV Capital Contribution:- R 19 317,99

TOTAL DUE VAT INCLUDED	R 73 726,04
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Conditions:

1. This is a draft quotation for estimate purposes only, pending upgrade application made.
2. The cable will be terminated to kiok by the Client and the circuit breaker will be the client's responsibility.
3. The cost for the meter and installation will be the responsibility of the Client.

Compiled: Neziswa Xakata

Date: 23/04/2026

Signature:

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Collab No: N/A
By: Neziswa Xakata

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