



de villiers & moore
CONSULTING ENGINEERS
Electrical, Mechanical, Fire

Our Ref: R52000/L004
Date: 2024-06-03

Your Ref:

Konka Studio
MOSSEL BAY
6500

Attention: Mr H Buys

Sir

FRANSMANSHOEK: PORTION 30/275 MISGUNST: HOUSE COMBRINK
ELECTRICAL BULK SERVICES REPORT

This report has been compiled by de Villiers & Moore Consulting Engineers, having been instructed our Client, Mr Combrink 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 Development is situated on Portion 30 257 Misgunst.

SUPPLY AUTHORITY

The Development is situated in the electrical supply area of Eskom.

DRAWINGS

None attached.

EXISTING ELECTRICAL DISTRIBUTION NETWORK

There are existing overhead Eskom lines in the area.

DEMAND REQUIREMENTS

The demand will be calculated and a suitably sized off grid solar system will be installed along with a suitably sized generator.



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PROPOSED ELECTRICAL DISTRIBUTION NETWORK

The house will be supplied from a suitably sized inverter, battery, photo voltaic system which will be integrated into the house.

The system will be augmented by a suitably sized generator to assist with battery charging during days not conducive to solar generation. Measures will be taken to mitigate sound pollution.

METERING AND RESPONSIBILITY

Not applicable.

ENERGY SAVING MEASURES

The use of the following equipment will be made mandatory

Water and sewage pumps to be supplied with energy efficient motors and vsd motor control.

Water heating to be done using gas or heatpumps.

Lighting to make use of LED lamps only.

Use of motion sensor lighting control.

ELECTRICAL DEVELOPMENT CHARGES

There are no development costs payable.

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 off grid solar system.

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

None as the system will be incorporated within the structure.

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