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**APPENDIX A**
**TECHNICAL DATA SHEET**

(To be completed by tenderers and returned as part of their tender)

- 1.0 Name of Manufacturer.....
  
- 2.0 DISTRIBUTION BOARD
- 2.1 Type and manufacture.....
- 2.2 Minimum thickness of sheet steel.....
- 2.3 Degree of protection to SANS 60529.....
- 2.4 Form of segregation of circuits.....
- 2.5 To what standards have the following been tested?
- 2.5.1 Thermal rating.....
- 2.5.2 Short time rating.....
- 2.6 Test certificate number for:
- 2.6.1 Thermal rating.....
- 2.6.2 Short time rating.....
- 2.7 Dimensions:
- 2.7.1 Length.....
- 2.7.2 Width.....
- 2.7.3 Height.....
  
- 3.0 BUSBARS
- 3.1 Size.....
- 3.2 Enclosed current rating.....
- 3.3 One second fault rating.....
  
- 4.0 AIR CIRCUIT BREAKERS
- 4.1 Type and manufacture.....
- 4.2 Symmetrical Breaking Capacity ..... kA at ..... volts for..... seconds.
- 4.3 Asymmetrical Breaking Capacity ..... kA at ..... volts for..... Seconds.
- 4.5 Short time current for 1 second.....
- 4.6 Making capacity (Peak in kA).....
- 4.7 Continuous enclosed current rating.....
- 4.8 Range of overcurrent protection (Amps).....
- 4.9 Type of overcurrent protection.....
- 4.10 Under voltage release setting.....
- 4.10.1 Self-resetting value.....
- 4.11 Type Test Certificates to be included with Tender

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**APPENDIX A**
**TECHNICAL DATA SHEET** (continues)

(To be completed by tenderers and returned as part of their tender)

## 5.0 MOULDED CASE CIRCUIT BREAKERS

5.1 Manufacturer.....

## 6.0 CONTACTORS

6.1 Manufacturer.....

6.2 Duty rating.....

6.3 No. of electrical operations.....

## 7.0 INDICATING INSTRUMENTS

7.1 Type, size and manufacture of voltmeter.....

7.2 Type, size and manufacture of ammeter.....

7.3 Energy meter (KWh).....

Y	N
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## 8.0 CURRENT TRANSFORMERS

8.1 Metering - Type: ..... VA: ..... Class: .....

8.2 Protection - Type: ..... VA: ..... Class: .....

## 9.0 MECHANICAL CABLE GLANDS

Manufacturer.....

## 10.0 LIGHT SENSITIVE CONTROL UNIT

Manufacturer.....

APPENDIX B

SCHEDULE OF REQUIREMENTS

(To be completed by the Client)

1.0

Name of the depot/substation.....

2.0

Energy meter (KWh) required.....

Y

N

3.0

Circuit breaker requirements:

No. of breakers	Rating (A)

4.0

Distribution board load.....

5.0

Current transformer ratio.....

6.0

Special requirement

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## APPENDIX B

### SCHEDULE OF REQUIREMENTS

(To be completed by the Client)

1.0 Name of the depot/substation.....Polokwane yard.....

2.0 Energy meter (KWh) required.....

Y	X
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3.0 Circuit breaker requirements:

No. of breakers	Rating (A)
Main CB (1 EA)	250 A
Load CB (5 EA)	100 A
Yard lights CB (5EA)	100 A
Yard lights load CB(4 EA)	80 A

4.0 Distribution board load.....N/A.....

5.0 Current transformer ratio.....N/A.....

6.0 Special requirement

6.1 Install one voltmeter and one Ammeter.....

6.2 Install two contactors ( spec: 220V coil, 80A).....

6.3 Install one photocell/ light sensitive control unit.....

6.4 Install two override switch for the contactors with a 10A CB.....

6.5 Install one socket outlet.....

6.6 Install two each 100A and 80A spares.....

## APPENDIX B

### SCHEDULE OF REQUIREMENTS

(To be completed by the Client)

1.0 Name of the depot/substation Polokwane Station.....

2.0 Energy meter (KWh) required.....

Y	<del>X</del>
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3.0 Circuit breaker requirements:

No. of breakers	Rating (A)
Main CB (1 ea)	250 A
Load CB (1 ea)	150 A
Control Point CB (3ea)	60 A
Yard lights CB (4ea)	100 A

4.0 Distribution board load N/A.....

5.0 Current transformer ratio N/A.....

6.0 Special requirement

6.1 Install one voltmeter and one Ammeter.....

6.2 Install two contactors ( spec: 220V coil, 80A).....

6.3 Install one photocell/ light sensitive control unit.....

6.4 Install two override switch for the contactors with a 10A CB.....

6.5 Install four 80A CB for yard lights.....

6.6 Install one socket outlet.....

6.7 Install two each 100A and 80A spare.....

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**APPENDIX B**
**SCHEDULE OF REQUIREMENTS**

(To be completed by the Client)

1.0 Name of the depot/substation Musina Loc.....

2.0 Energy meter (KWh) required.....

Y	NX
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3.0 Circuit breaker requirements:

No. of breakers	Rating (A)
Main CB (1 ea)	150 A
Load CB (2 ea)	100 A
Load CB (2 ea)	60 A

4.0 Distribution board load.....

5.0 Current transformer ratio.....

6.0 Special requirement

6.1 Install one voltmeter and one Ammeter.....

6.2 Install two contactors ( spec: 220V coil, 80A).....

6.3 Install two photocell/ light sensitive control unit.....

6.4 Install two override switch for the contactors with a 10A CB.....

6.5 Install four 80A CB for yard lights.....

6.6 Install one socket outlet.....

6.7 Install two each 100A and 80A spare.....

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**APPENDIX B**
**SCHEDULE OF REQUIREMENTS**

(To be completed by the Client)

1.0 Name of the depot/substation..... Musina station

2.0 Energy meter (KWh) required.....

Y	N <b>X</b>
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3.0 Circuit breaker requirements:

No. of breakers	Rating (A)
Main CB (1 ea)	500A
A.Kiosk CB (1EA)	250 A
B.Kiosk CB (1EA)	250 A
C.Kiosk CB (1E)	250 A

4.0 Distribution board load.....

5.0 Current transformer ratio.....

6.0 Special requirement

6.1 Install one voltmeter and one Ammeter

6.2 Install two contactors ( spec: 220V coil, 80A)

6.3 Install two photocell/ light sensitive control unit

6.4 Install two override switch for the contactors with a 10A CB

6.5 Install four 80A CB for yard lights

6.6 Install one socket outlet

6.7 Install two each 100A and 80A spare

6.8 Install one 100A welding circuit breaker

6.9 Install one 30A for Rovos shed