

Annexure 1
DEPARTMENT OF LABOUR
OCCUPATIONAL HEALTH AND SAFETY ACT, 1993
CERTIFICATE OF COMPLIANCE



**GENERAL ELECTRICAL INSTALLATION
CERTIFICATE OF COMPLIANCE**

Certificate of compliance in accordance with regulation 7(1) of the Electrical Installation Regulations, 2009.

CERTIFICATE NO.

ECA M0233348

Certificate type (tick appropriate block)

Initial Certificate ☐ Supplementary Certificate ☒

Supplement No.: M233348

to Initial Certificate No.: ECA M172810

as issued on: 2022-02-14

Identification of the relevant electrical installation

Physical address: Plot 2377 Kragga Kamma Road

Name of building:

GPS Coordinates:

Suburb / Township: Kragga Kamma

Pole number:

District / Town / City: Gqeberha

Erf / Lot No.: Plot 2377 245/1 Nooitgedacht

Declaration by registered person

I, KETIN BIGGS

(ID No.: 7902015153083)

a registered person, declare that I have personally carried out the inspection and testing of the electrical installation described in the attached test report as per the requirements of:

(Tick appropriate box)

- ☐ a) electrical installation regulations 9(2) (a) (new electrical installation); or
☐ b) electrical installation regulations 9(2) (b) (existing electrical installation); or
☒ c) electrical installation regulations 9(2) (c) (new part to existing installation)

and deem the installation to be reasonable safe when properly used

I have entered the number of this Certificate on the attached test report(s).

I declare that the persons responsible for the design, specification, procurement, construction, commissioning and inspection and test have completed the relevant sections of the test report.

Registered person registration number: 28099

Date of registration: 2007-11-16

Type of Registration: (Tick appropriate box)

☐ Electrical tester for single phase ☒ Installation electrician ☐ Master installation electrician

Signature:

Date: 2023-06-22

Contact details of registered person:

Address: 10 PERCY OWEN CLOSE, SUMMERSTRAND, PORT ELIZABETH, 6001, EASTERN CAPE

Tel. No.: 0721479248

Fax No.:

Cell No.: 0721479248

Email: ketinbiggs@live.com

NOTE 1. This Certificate is not valid unless all the sections have been completed correctly and the test report in the format approved by the chief inspector is attached.

2. This Certificate will be invalid if any corrections have been made.

Declaration by the electrical contractor

I, KETIN BIGGS

(ID No.: 7902015153083)

that the electrical installation has been carried out in accordance with the requirements of the Occupational Health and Safety Act, 1993, and regulations made thereunder.

Electrical contractor registration number: EC00262

Date of registration: 2021-09-27

Signature:

Expiry date: 2024-09-26

Contact details of electrical contractor: Name: KETIN BIGGS ELECTRICAL CC

Address: 10 PERCY OWEN CLOSE, SUMMERSTRAND, SUMMERSTRAND, PORT ELIZABETH, 6001, EASTERN CAPE

Tel. No.: 0721479248

Fax No.:

Cell No.: 0721479248

Email: ketinbiggs@live.com

Recipient name:

Signature:

Date:

TEST REPORT
for ELECTRICAL INSTALLATIONS
(To SANS 10142-1)

Certificate of Compliance (CoC) No.: ECA M0233348
Date of issue: 2023-06-22

Test report for DB/Supply: Municipal Main DB

Additional pages added: ☒ Yes Number added 5 ☐ No

NOTE 1 In terms of South African legislation, the user or lessor is responsible for the safety of the electrical installation.

NOTE 2 This report covers only the part of the installation described in section 3.

NOTE 3 This report covers the circuits for fixed applications, but not the actual appliances, for example stoves, geysers, air conditioning and refrigeration plant and lights.

NOTE 4 Medical and hazardous locations require additional test reports (see 8.7).

NOTE 5 Enter the required information or tick the appropriate block.

SECTION 1 - LOCATION (Only required if not provided on Certificate of Compliance)

Physical address: Plot 2377 Kragga Kamma Road

Name of building:

SECTION 2 - INSTALLATION

☒ Permanent installation ☐ Temporary installation

Type of electricity supply system:

☐ TN-S

☒ TN-C-S

☐ TN-C

☐ TT

☐ IT

Characteristics of supply:

Voltage

☒ 230 V

☒ 400 V

☐ 525 V

☐ Other -----

Number of phases:

☐ One

☐ Two

☒ Three

Phase rotation:

☐ Clockwise

☒ Anticlockwise

Frequency:

☒ 50Hz

☐ Other -----

☐ d.c

Main switch type:

☐ Switch disconnector (on-load isolator)

☐ Fuse switch

☒ Circuit-breaker

☐ Earth leakage circuit-breaker

☐ Earth leakage switch disconnector

Number of poles: 3

Current ratings: 150 A

A short-circuit/withstand rating: 15 kA

Rated earth leakage tripping current I_{Δn}:

☐ 30 mA

☐ Other ----- mA ☒ N/A

Is surge protection installed (see 6.7.6 and annex I):

☐ Yes

☒ No

Is lightning protection installed (see 6.7.7 and annex I):

☐ Yes

☒ No

Is alternative power supply installed? (See 7.12.)

☐ Yes

☒ No

Is any part of the installation a specialized electrical installation?

☐ Yes

☒ No

If yes, complete additional test reports (see 8.7)

Is any part of the installation at a voltage above 1kV?

☐ Yes

☒ No

If yes, competent person to approve design and complete additional test reports (see 8.5.2 and SANS 10142-2)

SECTION 3 - DESCRIPTION OF INSTALLATION COVERED BY THIS REPORT (Add additional pages, specific references or drawings, etc., where applicable)

Relabel distribution Board and test Sub-Distribution Board Property

Number of circuits or points	New	Existing	Number of circuits or points	New	Existing
Lighting circuits:			Fan circuits:		
Lighting points:					
Socket-outlet circuits:					
Socket-outlets:			Fixed appliance circuits		
Air-conditioning circuits:					
Transformer circuits:					
	Lighting				
	Bell		Earth leakage protects:		
	Other				
Heating circuits:			Complete installation		
Alternative power supply connections:			Only part of installation		
Other circuits or points: - Sgl Ph supply neighbour UKUPHUKHU	1		Other circuits or points: - Spare	2	
			Other circuits or points: - Sub Distribution Board Property	1	
			Other circuits or points:		

SECTION 4 - INSPECTION AND TESTS (new and existing installations)

Mark as appropriate

	Yes	No	N/A
1. Conductors are of the correct rating and current-carrying capacity for the protective devices and connected load	☒	☐	☐
2. Components have been correctly selected and installed	☒	☐	☐
3. Disconnecting devices are correctly located and all switchgear switches the phase conductors	☒	☐	☐
4. Circuits, fuses, switches, terminals, earth leakage units, circuit-breakers, distribution boards are correctly and permanently marked or labelled	☒	☐	☐

Tests	Units	Reading/result
1. Continuity of bonding	-	Compliant ☒
2. Resistance of earth continuity conductor at all points of consumption	-	Compliant ☒
3. Continuity of ring circuits (if applicable)	-	NA
4. Earth loop impedance test: at main or local switch	Ω	0.14
5. Neutral loop impedance test: at main or local switch	Ω	0.13
6. Prospective short-circuit current at main or local switch (PSCC)	kA	1.751 kA ☐ Calculated ☒ Measured
7. Elevated voltage between incoming neutral and external earth (ground)	V	1
8. Insulation resistance	MΩ	200
9. Voltage at distribution board with no load for each phase to neutral	V	224 Y B
10. Voltage at distribution board with load (as calculated for full load) for each phase to neutral	V	220 Y B
11. Value of operation of earth leakage units	mA	
12. Operation of earth leakage test button	-	correct ☐ N/A
13. Polarity of points of consumption	-	correct ☒
14. Phase rotation is consistent at all points of consumption for three-phase systems	-	correct ☒
15. All switching devices, make-and-break circuits	-	correct ☒

Comments: UKUPHUKHU Supply has been brought to local municipalities attention to be removed and neighbour will need to apply for a separate service.

Comments on parts of the installation not covered by this report: Sgl Ph supply neighbour cable and meter box. Municipal supply and cable from Transformer.

SECTION 5 RESPONSIBILITY - INSPECTION AND TESTS

I, being the person responsible for the INSPECTION AND TESTING of the electrical installation, particulars of which are described in section 3 of this form, CERTIFY that the inspection and testing were done in accordance with this part of SANS 10142, that the results obtained and reflected on this report are correct, and indicate the extent of liability of the signatory is limited to the installation described in section 3 of this form.

Name of registered person: KETIN BIGGS

Registration Certificate No.: 28099

Type of registration: ☒ Master installation electrician ☒ Installation electrician ☐ Single-phase tester

Signature:

Date: 2023-06-22

Tel no.: 0721479248

TEST REPORT
for ELECTRICAL INSTALLATIONS
(To SANS 10142-1)

Certificate of Compliance (CoC) No.: ECA M0233348
Date of issue: 2023-06-22

Test report for DB/Supply: Sub DB Property

Additional pages added: ☒ Yes Number added 5 ☐ No

NOTE 1 In terms of South African legislation, the user or lessor is responsible for the safety of the electrical installation.

NOTE 2 This report covers only the part of the installation described in section 3.

NOTE 3 This report covers the circuits for fixed applications, but not the actual appliances, for example stoves, geysers, air conditioning and refrigeration plant and lights.

NOTE 4 Medical and hazardous locations require additional test reports (see 8.7).

NOTE 5 Enter the required information or tick the appropriate block.

SECTION 1 - LOCATION (Only required if not provided on Certificate of Compliance)

Physical address: Plot 2377 Kragga Kamma Road

Name of building:

SECTION 2 - INSTALLATION

☒ Permanent installation ☐ Temporary installation

Type of electricity supply system:

☐ TN-S

☒ TN-C-S

☐ TN-C

☐ TT

☐ IT

Characteristics of supply:

Voltage

☒ 230 V

☒ 400 V

☐ 525 V

☐ Other _____

Number of phases:

☐ One

☐ Two

☒ Three

Phase rotation:

☐ Clockwise

☒ Anticlockwise

Frequency:

☒ 50Hz

☐ Other _____

☐ d.c

Main switch type:

☐ Switch disconnector (on-load isolator)

☐ Fuse switch

☒ Circuit-breaker

☐ Earth leakage circuit-breaker

☐ Earth leakage switch disconnector

Number of poles: 3

Current rating: 150 A

A short-circuit/withstand rating: 15 kA

Rated earth leakage tripping current I_{Δn}:

☒ 30 mA

☐ Other _____ mA

☐ N/A

Is surge protection installed (see 6.7.6 and annex I):

☐ Yes

☒ No

Is lightning protection installed (see 6.7.7 and annex I):

☐ Yes

☒ No

Is alternative power supply installed? (See 7.12.)

☐ Yes

☒ No

Is any part of the installation a specialized electrical installation?

☐ Yes

☒ No

If yes, complete additional test reports (see 8.7)

Is any part of the installation at a voltage above 1kV?

☐ Yes

☒ No

If yes, competent person to approve design and complete additional test reports (see 8.5.2 and SANS 10142-2)

SECTION 3 - DESCRIPTION OF INSTALLATION COVERED BY THIS REPORT (Add additional pages, specific references or drawings, etc., where applicable)

Tested and terminated points. Renamed distribution board Sub DB Property.

Number of circuits or points	New	Existing	Number of circuits or points	New	Existing
Lighting circuits:			Fan circuits:		
Lighting points:					
Socket-outlet circuits:	2				
Socket-outlets:	6		Fixed appliance circuits		
Air-conditioning circuits:					
Transformer circuits:					
	Lighting				
	Bell		Earth leakage protects:		
	Other				
Heating circuits:			Complete installation		
Alternative power supply connections:			Only part of installation	Yes	
Other circuits or points: - Load limit Circuit	2		Other circuits or points: - Sub DB Pump room	1	
			Other circuits or points: - Gate isolator	2	
			Other circuits or points: - Spare	2	

SECTION 4 - INSPECTION AND TESTS (new and existing installations)

Mark as appropriate

	Yes	No	N/A
1. Conductors are of the correct rating and current-carrying capacity for the protective devices and connected load	☒	☐	☐
2. Components have been correctly selected and installed	☒	☐	☐
3. Disconnecting devices are correctly located and all switchgear switches the phase conductors	☒	☐	☐
4. Circuits, fuses, switches, terminals, earth leakage units, circuit-breakers, distribution boards are correctly and permanently marked or labelled	☒	☐	☐

Tests	Units	Reading/result
1. Continuity of bonding	-	Compliant ☒
2. Resistance of earth continuity conductor at all points of consumption	-	Compliant ☒
3. Continuity of ring circuits (if applicable)	-	NA
4. Earth loop impedance test: at main or local switch	Ω	0.14
5. Neutral loop impedance test: at main or local switch	Ω	0.13
6. Prospective short-circuit current at main or local switch (PSCC)	kA	1.751 kA ☐ Calculated ☒ Measured
7. Elevated voltage between incoming neutral and external earth (ground)	V	1
8. Insulation resistance	MΩ	200
9. Voltage at distribution board with no load for each phase to neutral	V	226 Y B
10. Voltage at distribution board with load (as calculated for full load) for each phase to neutral	V	221 Y B
11. Value of operation of earth leakage units	mA	25
12. Operation of earth leakage test button	-	correct ☒
13. Polarity of points of consumption	-	correct ☒
14. Phase rotation is consistent at all points of consumption for three-phase systems	-	correct ☒
15. All switching devices, make-and-break circuits	-	correct ☒

Comments: Socket 63A Single phase Feeds mobile coffee Caravan.

Comments on parts of the installation not covered by this report: Sub Db house supply cable, Distribution board, points and circuits. Electrical fence and alarm connections.

SECTION 5 RESPONSIBILITY - INSPECTION AND TESTS

I, being the person responsible for the INSPECTION AND TESTING of the electrical installation, particulars of which are described in section 3 of this form, CERTIFY that the inspection and testing were done in accordance with this part of SANS 10142, that the results obtained and reflected on this report are correct, and indicate the extent of liability of the signatory is limited to the installation described in section 3 of this form.

Name of registered person: KETIN BIGGS

Registration Certificate No.: 28099

Type of registration ☒ Master installation electrician ☒ Installation electrician ☐ Single-phase tester

Signature:

Date: 2023-06-22

Tel no.: 0721479248

TEST REPORT
for ELECTRICAL INSTALLATIONS
(To SANS 10142-1)

Certificate of Compliance (CoC) No.: ECA M0233348
Date of issue: 2023-06-22

Test report for DB/Supply: Sub DB Property

Additional pages added: ☒ Yes Number added 5 ☐ No

NOTE 1 In terms of South African legislation, the user or lessor is responsible for the safety of the electrical installation.

NOTE 2 This report covers only the part of the installation described in section 3.

NOTE 3 This report covers the circuits for fixed applications, but not the actual appliances, for example stoves, geysers, air conditioning and refrigeration plant and lights.

NOTE 4 Medical and hazardous locations require additional test reports (see 8.7).

NOTE 5 Enter the required information or tick the appropriate block.

SECTION 1 - LOCATION (Only required if not provided on Certificate of Compliance)

Physical address: Plot 2377 Kragga Kamma Road

Name of building:

SECTION 2 - INSTALLATION

☒ Permanent installation ☐ Temporary installation

Type of electricity supply system: ☐ TN-S

☒ TN-C-S

☐ TN-C

☐ TT

☐ IT

Characteristics of supply:

Voltage: ☒ 230 V

☒ 400 V

☐ 525 V

☐ Other

Number of phases: ☐ One

☒ Two

☒ Three

Phase rotation: ☐ Clockwise

☒ Anticlockwise

Frequency: ☒ 50Hz

☐ Other

☐ d.c

Main switch type:

☐ Switch disconnector (on-load isolator)

☐ Fuse switch

☒ Circuit-breaker

☐ Earth leakage circuit-breaker

☐ Earth leakage switch disconnector

Number of poles: 3 Current rating: 150 A

A short-circuit/withstand rating: 15 kA

Rated earth leakage tripping current I_{Δn}:

☒ 30 mA

☐ Other

☐ N/A

Is surge protection installed (see 6.7.6 and annex I):

☐ Yes

☒ No

Is lightning protection installed (see 6.7.7 and annex I):

☐ Yes

☒ No

Is alternative power supply installed? (See 7.12.)

☐ Yes

☒ No

Is any part of the installation a specialized electrical installation?

☐ Yes

☒ No

If yes, complete additional test reports (see 8.7)

Is any part of the installation at a voltage above 1kV?

☐ Yes

☒ No

If yes, competent person to approve design and complete additional test reports (see 8.5.2 and SANS 10142-2)

SECTION 3 - DESCRIPTION OF INSTALLATION COVERED BY THIS REPORT (Add additional pages, specific references or drawings, etc., where applicable)

Connect test points and circuits

Number of circuits or points	New	Existing	Number of circuits or points	New	Existing
Lighting circuits:			Fan circuits:		
Lighting points:					
Socket-outlet circuits:					
Socket-outlets:			Fixed appliance circuits		
Air-conditioning circuits:					
Transformer circuits:					
	Lighting				
	Bell				
	Other				
Heating circuits:			Earth leakage protects:		
Alternative power supply connections:					
Other circuits or points: - Sub DB House	1		Complete installation		
			Only part of installation	Yes	
			Other circuits or points:		
			Other circuits or points:		
			Other circuits or points:		

SECTION 4 - INSPECTION AND TESTS (new and existing installations)

Mark as appropriate

	Yes	No	N/A
1. Conductors are of the correct rating and current-carrying capacity for the protective devices and connected load	☒	☐	☐
2. Components have been correctly selected and installed	☒	☐	☐
3. Disconnecting devices are correctly located and all switchgear switches the phase conductors	☒	☐	☐
4. Circuits, fuses, switches, terminals, earth leakage units, circuit-breakers, distribution boards are correctly and permanently marked or labelled	☒	☐	☐

Tests	Units	Reading/result
1. Continuity of bonding	-	Compliant ☒
2. Resistance of earth continuity conductor at all points of consumption	-	Compliant ☒
3. Continuity of ring circuits (if applicable)	-	NA
4. Earth loop impedance test: at main or local switch	Ω	0.14
5. Neutral loop impedance test: at main or local switch	Ω	0.13
6. Prospective short-circuit current at main or local switch (PSCC)	kA	1.751 kA ☐ Calculated ☒ Measured
7. Elevated voltage between incoming neutral and external earth (ground)	V	1
8. Insulation resistance	MΩ	200
9. Voltage at distribution board with no load for each phase to neutral	V	226 Y B
10. Voltage at distribution board with load (as calculated for full load) for each phase to neutral	V	222 Y B
11. Value of operation of earth leakage units	mA	25
12. Operation of earth leakage test button	-	correct ☒
13. Polarity of points of consumption	-	correct ☒
14. Phase rotation is consistent at all points of consumption for three-phase systems	-	correct ☒
15. All switching devices, make-and-break circuits	-	correct ☒

Comments:

Comments on parts of the installation not covered by this report: Sub DB house supply cable, Distribution board, points and circuits, Electrical fence and alarm connections

SECTION 5 RESPONSIBILITY - INSPECTION AND TESTS

I, being the person responsible for the INSPECTION AND TESTING of the electrical installation, particulars of which are described in section 3 of this form, CERTIFY that the inspection and testing were done in accordance with this part of SANS 10142, that the results obtained and reflected on this report are correct, and indicate the extent of liability of the signatory is limited to the installation described in section 3 of this form.

Name of registered person: KETIN BIGGS

Registration Certificate No.: 28099

Type of registration: ☒ Master installation electrician ☒ Installation electrician ☐ Single-phase tester

Signature:

Date: 2023-06-22

Tel no.: 0721479248

TEST REPORT
for ELECTRICAL INSTALLATIONS
(To SANS 10142-1)

Certificate of Compliance (CoC) No.: ECA M0233348
Date of issue: 2023-06-22

Test report for DB/Supply: Sub DB Pump room

Additional pages added: ☒ Yes Number added 5 ☐ No

NOTE 1 In terms of South African legislation, the user or lessor is responsible for the safety of the electrical installation.
NOTE 2 This report covers only the part of the installation described in section 3.
NOTE 3 This report covers the circuits for fixed applications, but not the actual appliances, for example stoves, geysers, air conditioning and refrigeration plant and lights.
NOTE 4 Medical and hazardous locations require additional test reports (see 8.7).
NOTE 5 Enter the required information or tick the appropriate block.

SECTION 1 - LOCATION (Only required if not provided on Certificate of Compliance)

Physical address: Plot 2377 Kragga Kamma Road

Name of building:

SECTION 2 - INSTALLATION

☒ Permanent installation ☐ Temporary installation

Type of electricity supply system:

☐ TN-S

☒ TN-C-S

☐ TN-C

☐ TT

☐ IT

Characteristics of supply:

Voltage

☒ 230 V

☒ 400 V

☐ 525 V

☐ Other _____

Number of phases:

☐ One

☐ Two

☒ Three

Phase rotation:

☐ Clockwise

☒ Anticlockwise

Frequency:

☒ 50Hz

☐ Other _____

☐ d.c

Main switch type:

☐ Switch disconnector (on-load isolator)

☐ Fuse switch

☒ Circuit-breaker

☐ Earth leakage circuit-breaker

☐ Earth leakage switch disconnector

Number of poles: 3

Current rating: 32 A

A short-circuit/withstand rating: 3 kA

Rated earth leakage tripping current I_{Δn}:

☒ 30 mA

☐ Other _____ mA

☐ N/A

Is surge protection installed (see 6.7.6 and annex I):

☐ Yes

☒ No

Is lightning protection installed (see 6.7.7 and annex I):

☐ Yes

☒ No

Is alternative power supply installed? (See 7.12.)

☐ Yes

☒ No

Is any part of the installation a specialized electrical installation?

☐ Yes

☒ No

If yes, complete additional test reports (see 8.7)

Is any part of the installation at a voltage above 1kV?

☐ Yes

☒ No

If yes, competent person to approve design and complete additional test reports (see 8.5.2 and SANS 10142-2)

SECTION 3 - DESCRIPTION OF INSTALLATION COVERED BY THIS REPORT (Add additional pages, specific references or drawings, etc., where applicable)

Installed Sub distribution Board Pump room feeding points

Number of circuits or points	New	Existing	Number of circuits or points	New	Existing
Lighting circuits:	1		Fan circuits:		
Lighting points:	1				
Socket-outlet circuits:	1				
Socket-outlets:	1		Fixed appliance circuits		
Air-conditioning circuits:					
Transformer circuits:					
	Lighting				
	Bell		Earth leakage protects:		
	Other				
Heating circuits:			Complete installation		
Alternative power supply connections:			Only part of installation	Yes	
Other circuits or points: - Borehole Pump Isolator	1		Other circuits or points: - Control Booster pump	1	
			Other circuits or points:		

SECTION 4 - INSPECTION AND TESTS (new and existing installations)

Mark as appropriate

	Yes	No	N/A
1. Conductors are of the correct rating and current-carrying capacity for the protective devices and connected load	☒	☐	☐
2. Components have been correctly selected and installed	☒	☐	☐
3. Disconnecting devices are correctly located and all switchgear switches the phase conductors	☒	☐	☐
4. Circuits, fuses, switches, terminals, earth leakage units, circuit-breakers, distribution boards are correctly and permanently marked or labelled	☒	☐	☐

Tests	Units	Reading/result
1. Continuity of bonding	-	Compliant ☒
2. Resistance of earth continuity conductor at all points of consumption	-	Compliant ☒
3. Continuity of ring circuits (if applicable)	-	NA
4. Earth loop impedance test: at main or local switch	Ω	0.14
5. Neutral loop impedance test: at main or local switch	Ω	0.13
6. Prospective short-circuit current at main or local switch (PSCC)	kA	1.751 kA ☐ Calculated ☒ Measured
7. Elevated voltage between incoming neutral and external earth (ground)	V	1
8. Insulation resistance	MΩ	200
9. Voltage at distribution board with no load for each phase to neutral	V	224 Y B
10. Voltage at distribution board with load (as calculated for full load) for each phase to neutral	V	220 Y B
11. Value of operation of earth leakage units	mA	30
12. Operation of earth leakage test button	-	correct ☒
13. Polarity of points of consumption	-	correct ☒
14. Phase rotation is consistent at all points of consumption for three-phase systems	-	correct ☒
15. All switching devices, make-and-break circuits	-	correct ☒

Comments: Installed control box for Booster pump

Comments on parts of the installation not covered by this report: Borehole controller, float switch and borehole pump

SECTION 5 RESPONSIBILITY - INSPECTION AND TESTS

I, being the person responsible for the INSPECTION AND TESTING of the electrical installation, particulars of which are described in section 3 of this form, CERTIFY that the inspection and testing were done in accordance with this part of SANS 10142, that the results obtained and reflected on this report are correct, and indicate the extent of liability of the signatory is limited to the installation described in section 3 of this form.

Name of registered person: KETIN BIGGS

Registration Certificate No.: 28099

Type of registration: ☒ Master installation electrician ☒ Installation electrician ☐ Single-phase tester

Signature:

Date: 2023-06-22

Tel no.: 0721479248

TEST REPORT
for ELECTRICAL INSTALLATIONS
(To SANS 10142-1)Certificate of
Compliance (CoC) No.: ECA M0233348
Date of issue: 2023-06-22

Test report for DB/Supply: Control Booster Box

Additional pages added: ☒ Yes Number added 5 ☐ No

NOTE 1 In terms of South African legislation, the user or lessor is responsible for the safety of the electrical installation.

NOTE 2 This report covers only the part of the installation described in section 3.

NOTE 3 This report covers the circuits for fixed applications, but not the actual appliances, for example stoves, geysers, air conditioning and refrigeration plant and lights.

NOTE 4 Medical and hazardous locations require additional test reports (see 8.7).

NOTE 5 Enter the required information or tick the appropriate block.

SECTION 1 - LOCATION (Only required if not provided on Certificate of Compliance)

Physical address: Plot 2377 Kragga Kamma Road

Name of building:

SECTION 2 - INSTALLATION☒ Permanent installation ☐ Temporary installation

Type of electricity supply system:

☐ TN-S☒ TN-C-S☐ TN-C☐ TT☐ IT

Characteristics of supply:

Voltage

☒ 230 V☒ 400 V☐ 525 V☐ Other

Number of phases:

☐ One☐ Two☒ Three

Phase rotation:

☐ Clockwise☒ Anticlockwise

Frequency:

☒ 50Hz☐ Other☐ d.c

Main switch type:

☐ Switch disconnector (on-load isolator)☐ Fuse switch☒ Circuit-breaker☐ Earth leakage circuit-breaker☐ Earth leakage switch disconnector

Number of poles:

3

Current rating:

10 A

A short-circuit/withstand rating:

3 kA

Rated earth leakage tripping current I_{Δn}:☒ 30 mA☐ Other

mA

☐ N/A

Is surge protection installed (see 6.7.6 and annex I):

☐ Yes☒ No

Is lightning protection installed (see 6.7.7 and annex I):

☐ Yes☒ No

Is alternative power supply installed? (See 7.12.)

☐ Yes☒ No

Is any part of the installation a specialized electrical installation?

☐ Yes☒ No

Is any part of the installation at a voltage above 1kV?

☐ Yes☒ No

If yes, competent person to approve design and complete additional test reports (see 8.5.2 and SANS 10142-2)

SECTION 3 - DESCRIPTION OF INSTALLATION COVERED BY THIS REPORT (Add additional pages, specific references or drawings, etc., where applicable)

--- Installed control box: 10A TP CB, 1A SP CB, Contactor overload, pilot lights, isolator and on/off switch connected to pressure switch, Emergency stop and lockable isolator on control box ---

Number of circuits or points		New	Existing	Number of circuits or points		New	Existing
Lighting circuits:				Fan circuits:			
Lighting points:				Fixed appliance circuits	Cooking		
Socket-outlet circuits:					Geyser		
Socket-outlets:					Pool pump		
Air-conditioning circuits:					Borehole pump		
Transformer circuits:	Lighting			Earth leakage protects:	Other		
	Bell				Complete installation		
	Other				Only part of installation		
Heating circuits:				Other circuits or points: - MOTOR OVERLOAD CIRCUIT		1	
Alternative power supply connections:				Other circuits or points:			
Other circuits or points: - CONTACTOR CONTROL CIRCUIT		1		Other circuits or points:			

SECTION 4 - INSPECTION AND TESTS (new and existing installations)

Mark as appropriate

	Yes	No	N/A
1. Conductors are of the correct rating and current-carrying capacity for the protective devices and connected load	☒	☐	☐
2. Components have been correctly selected and installed	☒	☐	☐
3. Disconnecting devices are correctly located and all switchgear switches the phase conductors	☒	☐	☐
4. Circuits, fuses, switches, terminals, earth leakage units, circuit-breakers, distribution boards are correctly and permanently marked or labelled	☒	☐	☐

Tests		Units	Reading/result	
1. Continuity of bonding		-	Compliant	☒
2. Resistance of earth continuity conductor at all points of consumption		-	Compliant	☒
3. Continuity of ring circuits (if applicable)		-	NA	
4. Earth loop impedance test: at main or local switch		Ω	0.14	
5. Neutral loop impedance test: at main or local switch		Ω	0.13	
6. Prospective short-circuit current at main or local switch (PSCC)		kA	1.751 kA	☐ Calculated ☒ Measured
7. Elevated voltage between incoming neutral and external earth (ground)		V	1	
8. Insulation resistance		MΩ	200	
9. Voltage at distribution board with no load for each phase to neutral		V	224	Y B
10. Voltage at distribution board with load (as calculated for full load) for each phase to neutral		V	219	Y B
11. Value of operation of earth leakage units		mA	30	
12. Operation of earth leakage test button		-	correct	☒
13. Polarity of points of consumption		-	correct	☒
14. Phase rotation is consistent at all points of consumption for three-phase systems		-	correct	☒
15. All switching devices, make-and-break circuits		-	correct	☒

Comments:

Comments on parts of the installation not covered by this report:

SECTION 5 RESPONSIBILITY - INSPECTION AND TESTS

I, being the person responsible for the INSPECTION AND TESTING of the electrical installation, particulars of which are described in section 3 of this form, CERTIFY that the inspection and testing were done in accordance with this part of SANS 10142, that the results obtained and reflected on this report are correct, and indicate the extent of liability of the signatory is limited to the installation described in section 3 of this form.

Name of registered person: KETIN BIGGS

Registration Certificate No.: 28099

Type of registration ☒ Master installation electrician ☒ Installation electrician ☐ Single-phase tester

Signature:

Date: 2023-06-22

Tel no.: 0721479248

TEST REPORT
for ELECTRICAL INSTALLATIONS
(To SANS 10142-1)

Certificate of
Compliance (CoC) No.: ECA M0233348
Date of issue: 2023-06-22

Test report for DB/Supply: Sub DB Coffee Caravan

Additional pages added: ☒ Yes Number added 5 ☐ No

NOTE 1 In terms of South African legislation, the user or lessor is responsible for the safety of the electrical installation.

NOTE 2 This report covers only the part of the installation described in section 3.

NOTE 3 This report covers the circuits for fixed applications, but not the actual appliances, for example stoves, geysers, air conditioning and refrigeration plant and lights.

NOTE 4 Medical and hazardous locations require additional test reports (see 8.7).

NOTE 5 Enter the required information or tick the appropriate block.

SECTION 1 - LOCATION (Only required if not provided on Certificate of Compliance)

Physical address: Plot 2377 Kragga Kamma Road

Name of building:

SECTION 2 - INSTALLATION☒ Permanent installation ☐ Temporary installation

Type of electricity supply system:

☐ TN-S☒ TN-C-S☐ TN-C☐ TT☐ IT

Characteristics of supply:

Voltage

☒ 230 V☐ 400 V☐ 525 V☐ Other _____

Number of phases:

☒ One☐ Two☐ Three

Phase rotation:

☐ Clockwise☐ Anticlockwise

Frequency:

☒ 50Hz☐ Other _____☐ d.c

Main switch type:

☐ Switch disconnector (on-load isolator)☐ Fuse switch☒ Circuit-breaker☐ Earth leakage circuit-breaker☐ Earth leakage switch disconnector

Number of poles:

2

Current ratings:

63 A

A short-circuit/withstand rating:

3 kA

Rated earth leakage tripping current I_{Δn}:☒ 30 mA☐ Other _____ mA☐ N/A

Is surge protection installed (see 6.7.6 and annex I):

☐ Yes☐ No

Is lightning protection installed (see 6.7.7 and annex I):

☐ Yes☒ No

Is alternative power supply installed? (See 7.12.)

☐ Yes☒ No

Is any part of the installation a specialized electrical installation?

☐ Yes☒ No

Is any part of the installation at a voltage above 1kV?

☐ Yes☒ No

If yes, complete additional test reports (see 8.7)

If yes, competent person to approve design and complete additional test reports (see 8.5.2 and SANS 10142-2)

SECTION 3 - DESCRIPTION OF INSTALLATION COVERED BY THIS REPORT (Add additional pages, specific references or drawings, etc., where applicable)

Installed Sub DB connected to 63A SGL PHLWeld socket. Terminated circuits and points.

Number of circuits or points	New	Existing	Number of circuits or points	New	Existing
Lighting circuits:	1		Fan circuits:		
Lighting points:	1				
Socket-outlet circuits:	3				
Socket-outlets:	3		Fixed appliance circuits		
Air-conditioning circuits:					
Transformer circuits:					
	Lighting				
	Bell				
	Other				
Heating circuits:			Earth leakage protects:		
Alternative power supply connections:					
Other circuits or points:			Other circuits or points:		
			Other circuits or points:		
			Other circuits or points:		

SECTION 4 - INSPECTION AND TESTS (new and existing installations)

Mark as appropriate

	Yes	No	N/A
1. Conductors are of the correct rating and current-carrying capacity for the protective devices and connected load	☒	☐	☐
2. Components have been correctly selected and installed	☒	☐	☐
3. Disconnecting devices are correctly located and all switchgear switches the phase conductors	☒	☐	☐
4. Circuits, fuses, switches, terminals, earth leakage units, circuit-breakers, distribution boards are correctly and permanently marked or labelled	☒	☐	☐
Tests			
1. Continuity of bonding	-	Compliant	☒
2. Resistance of earth continuity conductor at all points of consumption	-	Compliant	☒
3. Continuity of ring circuits (if applicable)	-	NA	
4. Earth loop impedance test: at main or local switch	Ω	0.14	
5. Neutral loop impedance test: at main or local switch	Ω	0.13	
6. Prospective short-circuit current at main or local switch (PSCC)	kA	1.751 kA	☐ Calculated ☒ Measured
7. Elevated voltage between incoming neutral and external earth (ground)	V	1	
8. Insulation resistance	MΩ	200	
9. Voltage at distribution board with no load for each phase to neutral	V	224	Y B
10. Voltage at distribution board with load (as calculated for full load) for each phase to neutral	V	220	Y B
11. Value of operation of earth leakage units	mA	25	
12. Operation of earth leakage test button	-	correct	☒
13. Polarity of points of consumption	-	correct	☒
14. Phase rotation is consistent at all points of consumption for three-phase systems	-	correct	☐ N/A
15. All switching devices, make-and-break circuits	-	correct	☐

Comments: Coffee Caravan is situated by Main Distribution Board at time of Test.

Comments on parts of the installation not covered by this report: Appliance's

SECTION 5 RESPONSIBILITY - INSPECTION AND TESTS

I, being the person responsible for the INSPECTION AND TESTING of the electrical installation, particulars of which are described in section 3 of this form, CERTIFY that the inspection and testing were done in accordance with this part of SANS 10142, that the results obtained and reflected on this report are correct, and indicate the extent of liability of the signatory is limited to the installation described in section 3 of this form.

Name of registered person: KETIN BIGGS

Registration Certificate No.: 28099

Type of registration ☒ Master installation electrician ☒ Installation electrician ☐ Single-phase tester

Signature:

Date: 2023-06-22

Tel no.: 0721479248