

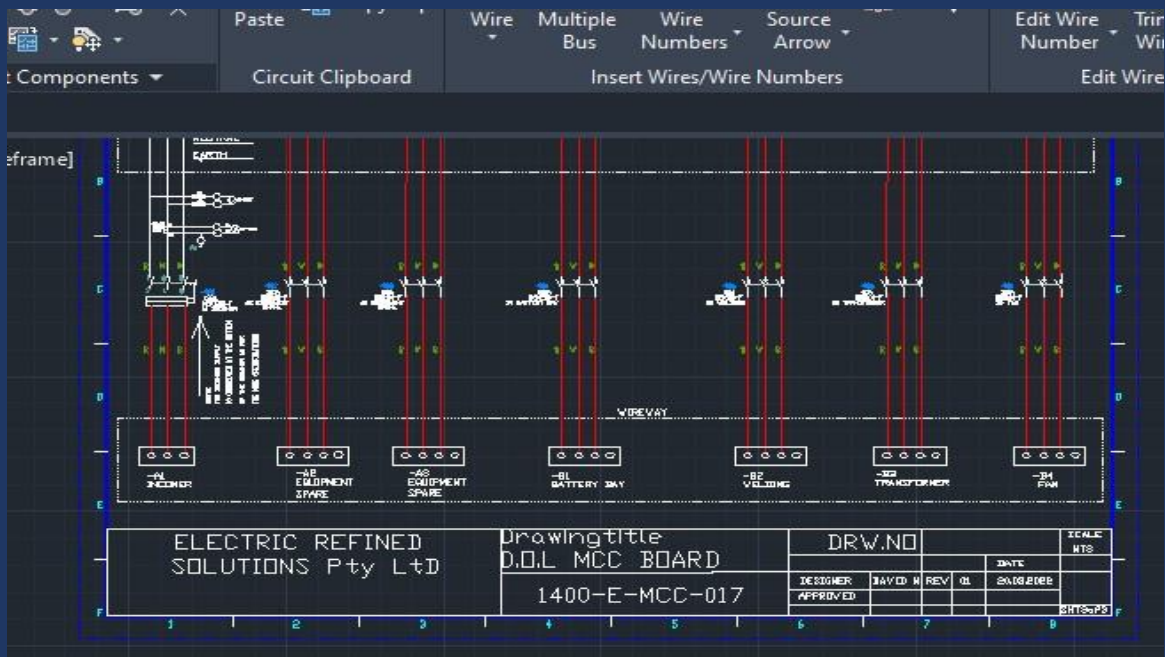


Mathonsi Technology Services (Pty)Ltd

## About us

Mathonsi Technology Services (Pty)Ltd is an electrical engineering and field services for power system protection and control for HV /MV and LV substations for different environments.

## Electrical Design



We are a mobile electrical designers office with years of experience in the different field electrical Engineering and in various environments. We design from scratch using a client provided specification or advice if there's no specification while still maintain and comply to standard.

Currently we focus on MV and LV Switchgear and Control, MCC Motor control centre, DB Distribution boards and any other required control panel using a licensed AutoCAD electrical design software.



Our drawing structure consist of the following.

- **SLD**, Single Line Diagram
- **GA**, General Arrangement
- **BOM**, Bill of Material
- Schematic Diagram
- Site Modifications
- As built drawings
- Cable Layout

Depending on the client requirement more can be include e.g. terminal stripe, cable schedule etc.

# Electrical Commissioning and Testing

MV Switchgear and LV, MCC , DB, Control panel.

- FAT\_Factory Acceptance Test
- SAT\_Site Acceptance Test

Tests Include

- CT\_Current transformer tests
- Protection relay Injections
- Pressure Tests
- Ductor tests
- Circuit breaker speed test
- VT\_Voltage transformer test
- Functions and protection scheme tests

According to the client specification more test can be required.



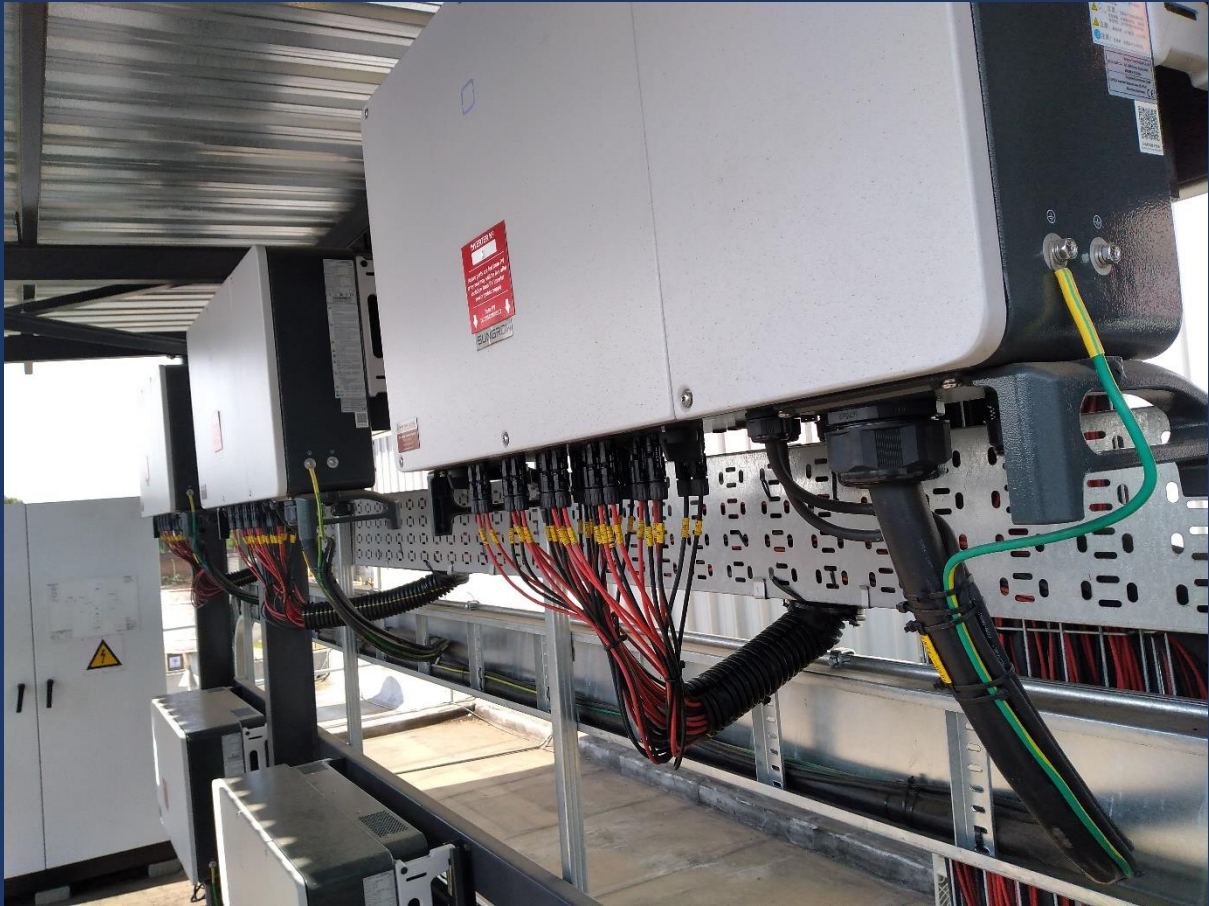


## Panel Building

- MV / LV Switchgear wiring
- MCC
- PLC
- DB wiring
- Control panel wiring
- Protection Relay Retrofits
- Switchgear refurbishment

## Electrical Installation LV (Low Voltage) sans 10142-1

- Installation of MCC boards,
- DB boards
- Control Panel
- Issue C.O.C \_Certificate of competence



## Solar System

- Design and feasibility studies
- Installations
- PV Control panel design
- PV panels cleaning
- Issue C.O.C \_Certificate of competence



## Diesel Generator

- Installations and commissioning
- Design ChangeOver panel
- Issue C.O.C \_Certificate of competence



## A/C\_Air Conditioners

- Supply and Installations
- Air conditioner service

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### *Vision*

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Our Vision through our services is to ensure that a continuous supply reliable and stable power protection systems of our clients.

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### *Mission*

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Our mission is to ethically provide design, commissioning, testing and services of protection relays and control equipment in electrical substations HV/MV and LV for utilities and industries ensuring reliability, Selectivity, security and availability of electrical plant and creating or adding value

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### *Contact Us*

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