

TSS SANDBLAST UPGRADE AND COMPLETION OF SPRAYBOOTH.

The Scope will be divided into the following sections.

- Section A: Structural
- Section B: Mechanical and
- Section C: Electrical.

EXTENT OF WORK

The extent of the work can be summarized as follows:

SECTION A: STRUCTURAL

- Construction of a brick wall between the spray booth and the adjacent workshop to satisfy fire protection requirements.
- Installation of side cladding sheeting and roof sheeting where required.
- Installation of a 50mm reinforced concrete screed.
- Construction of draining channels in the washing bay area with mentis grating covers.
- Replacing of required rafter on the portal frame to satisfy design requirements. Remove and replace the existing roof sheeting.
- Demolish and replace the existing surface bed.
- Installation of industrial grade mats on walls for sandblasting protection.
- Refurbish and service existing roller shutter door.
- Remove and reinstate the existing rail.

SECTION B: MECHANICAL

- i) Ventilation: Mechanical ventilation must be installed to function during spray and sandblast operations and for an adequate duration afterward to effectively exhaust vapours. Proper airflow is essential to prevent the build-up of flammable vapours.
- ii) Electrical Safety: Explosion-proof lighting and electrical fixtures should be employed. Additionally, all electrically conductive objects within the spray and sandblast area must be properly earthed.

SECTION C: ELECTRICAL

Electrical works will include but are not limited to:

- Installation of a new switchgear in existing LV Panel in an existing Miniature substation.
- Installation of a new LV Power distribution panel in the spraying booth.
- Installation of a new sub-distribution board in the Sand blast
- Earth bonding of mechanical equipment.

- Small power and lighting installation.
- The following installations for all associated services include:
 - Cables, cable baskets,
 - P8000 trucking, P9000 trunking,
 - Unwired conduits fitted with draw-wires, with all required accessories, draw-boxes and outlet boxes, as indicated on the drawings,
 - Air Conditioning Thermostat and control circuit
 - Power supplies to HVAC Equipment including re-heater points and Power supplies to Fire Dampers
 - Fire Alarm and Detection power supplies and conduits to control Fire Doors.

Certificate of Compliance

On completion of the service, a Certificate of Compliance, for every Distribution Board including the total installation reticulated from the distribution board, must be issued to the Engineer's Representative/Agent in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993), and SANS 10142: "Code of Practice for the Wiring of Premises". **It is to be noted that all work undertaken is to be under the continuous supervision of a registered Master Electrician who is to be made known at the time of tender and who is to be in the permanent employ of the Tenderer.**

Theona Dzingwa

Full Name

Designation

Project Manager



Signature