



PRIVATE BAG X 06
HONEYDEW
2040
JOHANNESBURG

To whom it may concern

You are hereby invited to submit a quotation for the delivery of the following goods/services as listed/stated below:

Appointment of a structural engineering firm to conduct the roof structural integrity at Sentech STP Buildings

Overview

A structural engineer's scope of work involves designing and analysing truss systems, ensuring they meet structural requirements and building codes, and collaborating with other professionals to ensure a safe and functional roof structure.

Here's a more detailed breakdown of a structural engineer's responsibilities related to roof trusses:

1. Design and Analysis:

- **Load Calculation:**

The engineer determines the loads the roof will experience, including dead loads (weight of the roof itself, tiles), live loads (wind, etc.), and any other relevant loads.

- **Truss Selection and Spacing:**

Based on the loads and building requirements, the engineer selects the appropriate type of truss and determines the spacing between trusses.

- **Structural Analysis:**

The engineer performs calculations to ensure the trusses can withstand the predicted loads and that the structure is stable. Provide a structural analysis with remedial work recommendations on existing roofs at STP Compass buildings

- **Detailed Drawings:**

The engineer creates detailed drawings of the trusses, including dimensions, material specifications, and connection details.

- **Code Compliance:**

The engineer ensures that the truss designs comply with the South African relevant building codes and regulations.

2. Collaboration and Coordination:

- **Truss Manufacturers:**

The engineer works with truss manufacturers to ensure that the trusses are designed and fabricated according to the engineer's specifications.

- **Sentech SCM Processes**

The Engineer is to be part of the in-house panel appointed disciplines to deliberate on the suitable bidder, to carry out any remedial work in order on site as guide, and an oversee

- **Programme of Works**

The Engineer must outline the sequence of work to be undertaken and will be responsible for monitoring and policing

the work during the construction phase

- **Contractors:**

The engineer provides the necessary information and drawings to contractors to ensure that the trusses are installed correctly.

3. Other Responsibilities:

- **Reviewing Submittals:**

The engineer reviews shop drawings and other submittals from the truss manufacturer to ensure they meet the design requirements.

- **Site Inspections:**

The engineer must conduct site inspections to ensure that the trusses are installed correctly and that the roof structure is stable.

- **Problem Solving:**

The engineer must be called upon to address any issues or problems that arise during the design or construction process and also should the on-site maintenance team suspect any roof defects or danger as far as the existing roof structures are concerned at Sentech STP Compass.

- **Communication:**

The engineer communicates effectively with all parties involved in the project, including clients, contractors, and truss manufacturers.

Inspection and issuing of a report on the findings, the scope for remedial work

Item No	Description	Unit	Quantity	Rate	Amount
1	Appointment of a structural engineer Inspection of the roof structure for any possible damages, including proposals for remedial work, issuing of reports, and scope of work to rectify the existing problem or replacement of the roof structure where necessary.	Item	1		
	TOTAL				
	VAT@15%				
	TOTAL				

Notes:

1. Rates to include all labour work, materials, profit and marks ups, and transportation.

Yours faithfully