



STEVE TSHWETE LOCAL MUNICIPALITY

Our ref. Quote QD02/04/10
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To whom it may concern:

**QUOTE: QD02/04/2010: BUILDING OF OVERHEAD LV LINE –
TELECOMMUNICATION TOWER, GHOLFSIG**

Contractors invited to build an overhead LV line and to connect it to existing infrastructure at Gholfsig Communication Tower.

Council is not bound to accept the lowest, a part of or any quotation. Quantities is not fixed will vary and be changed according to actual side conditions.

Documents are available at the Municipal Offices at the Electrical Department; Drawing office Room No. A217. Contact Mr. Ishmael Khalaki @ 013-249 7226 for any enquiries relating to quote.

All service providers must be registered on the database of Council.

The completion of study and submission of all reports must be submitted to the Engineer not later than **one month** after commencement of work.

Quotations must be submitted to the Municipal Tender Box, on the 2nd floor, Room C 305, in a sealed envelope clearly marked Quote **QD02/04/10** by no later than **12:00 on 08 April 2010.**

Yours faithfully

R. GRUNIG
TOWN ELECTRICAL ENGINEER



STEVE TSHWETE LOCAL MUNICIPALITY

**QUOTE: QD02/04/2010: BUILDING OF OVERHEAD LV LINE –
TELECOMMUNICATION TOWER, GHOLFSIG
CLOSING DATE 08 APRIL 2010, 12:00, MUNICIPAL OFFICES**

The following information is required:

Contractor: _____

Contact number: _____

Contract amount (vat included) _____

Breakdown of costs (Including VAT):

- Stay hole x 4 _____
- Pole whole x 8 _____
- Planting poles and alignment x 8 _____
- Planting and securing stay wire _____
- Concreting poles and stays x 12 _____
- Hanging of ABC cable (360m) _____
- Jointing x3 _____
- Connecting cable to meter kiosk and
C/B installation x1 _____
- Putting sleeves - 70mm x 1.5 (x 4) _____
- Other _____

PROJECT SPECIFICATION

SCOPE

The project deals with building overhead LV line using concrete poles at Gholfsig communication Tower and must be built in such a way that should its alignment exceed 10° be supported by stay as per regulation. The area has a very rocky soil and it is expected that required depth be achieved.

Municipality will supply all material except trenching equipment and cement and crush stones.

NB: All poles must be secured by concrete with 15 -20 MPA

In the case of any apparent contradiction, the project specification will take precedence over the particular and standardised specifications in the respective order.

DESCRIPTION OF THE WORKS

Works must be carried out in accordance to OHS, NRS and SANS specifications which consists of the following:

1. Required to build overhead line for supply cable to the tower which will consist of 2 poles and all cables must go through 70mm steel conduit 1.5m to under-ground, the depth of poles must be 1.5m down with the concrete cement around with a span of 45m.
 - First pole 3m away from the boundary of the stand and join the existing supply cable from the mini sub passing through a stand with ABC cable.
 - Second pole 3m from the existing reinforcement and join the cable.
2. Required to build overhead line from the meter kiosk to the high mast will consist of 6 poles, cables depth 500m secured concrete cement.
 - First pole 3m away from the tower yard and join cable from the meter kiosk.
 - Second pole across the road along with the Telkom pole
 - Last pole 3m away from the high mast and join cable.
3. All poles must be secured/tensioned by the stay-wire and the alignment of the poles is 0°—10° according to regulations should it not be possible stay wire should be used. Aerial bundle conductor(ABC) cable will be used as overhead line and to be joint with the existing underground cable.

4. Soil is very rocky and measures should be taken to ensure that depth level is according to specification. The strength of the concrete supporting poles and stays must be at least 15-20mpa
5. All existing infrastructure will be shown to the contractor and damage of such will be of contractor own cost.
6. 3 pole 20A c/b to be installed in the kiosk and connected to cable supply high mast.
7. Maximum sag must be 6m from the ground
8. Steel conduit end must be sealed to prevent water penetration.
9. 1.5 m rod for stay will be used

LOCALITY AND ACCESS

Gholfsig - communication tower.

NATURE OF GROUND AND SUBSOIL CONDITIONS

Very rocky area although no test holes were dug to determine the subsoil conditions. The tenderer must familiarize himself with the ground and subsoil conditions.

DETAILS OF CONTRACT

All measuring instrument used must have been calibrated not longer than twelve months from the date of commencement and copy of calibration certificate must be submitted to the Engineer before commencing with the work.

CONSTRUCTION PROGRAMME

A programme for the completion of the works must be provided to the Engineer.

EXISTING SERVICES

The Service provider shall make all the required arrangements with the Municipality, roads, railway, T.P.A, Telkom S.A. LTD and other authorities to ensure that all their regulations and requirements are observed.

The successful service provider will be provided with drawings and all other available information of all existing services (i.e.. water, sewer, storm water, electrical, telephone line sleeves, etc. from the Engineer before he commences with any work on site. He shall further take utmost care and precautions not to damage any existing services. The Council for the account of the Contractor shall rectify all damages to existing services. Only in the case where proof can be submitted, that damages caused was not due to his or his staff's negligence, will a claim in this regard be considered.

ITEMS REQUIRING SPECIAL ATTENTION

As the work progress it is the duty of the service provider to keep record of any amendments or changes to the plans provided at the start of the contract by the Engineer.

SETTING OUT OF WORK

The Contractor/service provider shall be responsible for the setting out of the works.

The Contractor/service provider shall take all necessary steps to ascertain the location of existing services before commencing any section of the works and shall exercise the greatest care when working in the vicinity of such services.

The contractor must familiarize himself with ground conditions and other services. Will be held liable to damages to such services if and when occur.

APPLICABLE STANDARDISED AND PARTICULAR SPECIFICATIONS

The following standardised specifications form part of the contract but are not included.

SANS 1200 DA : Standardised specification for civil engineering construction Section DA: Earthworks (small works).

- SANS 1200 LC : Standardised specification for civil engineering construction Section LC: Cable ducts.
- SANS 121 : Hot dip galvanised coatings on fabricated iron and steel articles - Specifications and test methods.
- SANS 32 : Internal and/or external protective coatings for steel tubes - Specification for hot dip galvanised coatings applied in automatic plants.
- SANS 1431 : Weldable structural steels.
- SANS 1713 : Electric cables - Medium-voltage aerial bundled conductors for voltages from 3.8/6.6kV to 19/33kV.
- SANS 1418-1 : Aerial bundled conductor systems Part 1: Cores.
- SANS 1418-2 : Aerial bundled conductor systems Part 2: Assembled insulated conductor bundles.
- SANS 6222 : Permitted electric detonators: Resistance of detonator to water.
- SANS 10098-1 : Public lighting Part 1: The lighting of public thoroughfares.
- SANS 10098-2 : Public lighting Part 2: The lighting of certain specific areas of streets and highways.
- SANS 1277 : Street lighting luminaires.
- SANS 1464-22 : Safety of luminaires Part 22: Luminaires for emergency lighting.
- SANS 754 : Eucalyptus poles, cross-arms and spacers for power distribution and telephone systems.
- SANS 780 : Distribution Transformers.

And all NRS related standard

Items in the Schedule of Quantities

The tariffs of items in the Schedule of Quantities are Exclusive of VAT.

Council's Database

Contractors must be registered on the council's database - registration forms available on website stevetshwetelm.gov.za or middelburgsa.co.za

Tax clearance

Tax-clearance certificate must be attached.

Safety

All the safety aspects in terms of the Occupational Health and Safety Act, Construction Regulations and the Eskom's High Voltage Regulations shall be complied with, with emphasis on:

- Risk Assessment
- Safe working procedures
- Workers register
- Site instruction book
- Safety meetings
- Personal Protective Equipment
- Register for slings and ladders with test certificates

Cognizance must be taken that no work will be allowed on the Electrical Network of the Municipality without prior notice and on **work permits** only. These permits can only be issued to responsible persons in terms of the High Voltage Regulations. Notice must be given 7 (seven) days prior to switching off any power. If an electrician is required from Council, apply in writing one day prior to executing the job.

- Specialized work to be carried out by skilled workers. - **certificates needed**
- Locals to be used for less specialized work. List of staff and ID's to be available at site and a copy to be submitted to the Municipality of Middelburg.
- A safety meeting must be held once a week and the safety meeting Agenda/Minutes must be submitted to Council.
- Safe work procedures to be adhered to at all times. Workers must be informed and trained.
- All work and construction must be done in accordance with the Occupational Health and Safety Act and the Construction regulations.
- Weekly reports are required for workers used on site.

EQUIPMENT SCHEDULE

DELIVERY PERIOD OF CONTRACT

Delivery period of total contract as specified _____ months

In words _____

SCHEDULE OF QUANTITIES

1. The general conditions of contract, the special conditions of contract (if any), the specifications (including the project specification) and the drawings are to be read in conjunction with the schedule of quantities.
2. a) The schedule comprises items covering the Contractor's profit and costs of general liabilities and of the construction of temporary and permanent works.

b) The Tenderer is at liberty to insert a rate of his own choosing for each item in the schedule and his attention is drawn to the fact that the Contractor has the right, under various circumstances, to payment for additional works carried out and that the Engineer is obliged to base his assessment of the rates to be paid for such additional work on the rates inserted in the schedule by the Contractor.
3. Unless otherwise stated, items are measured net in accordance with the drawings, and no allowance has been made for waste.
4. The prices and rates to be inserted in the schedule of quantities are to be the full inclusive prices to the Employer for the work described under the several items, value added tax excluded. Such prices shall cover all costs and expenses that may be required in and for the construction of the work described, and shall cover the cost of all general risks, liabilities and obligations set forth or implied in the documents on which the tender is based.
5. A price or rate is to be entered against each item in the schedule of quantities, whether the quantities are stated or not. An item against which no price is entered will be considered to be covered by the other prices or rates in the schedule.
6. The Tenderer must price each item in the schedule of quantities in **BLACK INK**, the use of pencil, Tipp-Ex or any other correction fluid / item will immediately disqualify the tender.
7. *All prices and rates shall exclude value added tax (VAT).* The Tenderer shall calculate value added tax and enter it at the end of the summary of the schedule of quantities.