TRANSNEF



freight rail

A Division of Transnet SOC Limited Registration number 1990/00900/30

REQUEST FOR OUOTATION

KBY/52946 KBC_14183

Senior Buyer
Supply Chain Services
TRANSNET FREIGHT RAIL
Austen Street
KIMBERLEY
8301



Transnet Freight Rail, a division of

TRANSNET SOC LTD

Registration Number 1990/000900/30 [hereinafter referred to as **Transnet**]

REQUEST FOR QUOTATION [RFQ] No KBY 52946

FOR THE PROVISION OF:

REPLACE FENCING BETWEEN EMMAUS AND PETRUSBURG STATIONS (±19.89KM) FOR A

PERIOD OF 3 MONTHS.

FOR DELIVERY TO: THE INFRA MANAGER KIMBERLEY

ISSUE DATE:

19 MAY 2014

CLOSING DATE:

10 JUNE 2014

CLOSING TIME:

10:00

SITE MEETING:

03 JUNE 2014 AT 10:00

VENUE:

IN THE BOARDROOM OF THE REAL ESTATE MANAGEMENT

BUILDING, AUSTEN STREET, BEACONSFIELD

Section 1 NOTICE TO BIDDERS

Quotations which must be completed as indicated in Section 2 of this RFQ are to be submitted as follows:

METHOD:

Tender Box

CLOSING VENUE:

Transnet Freight Rail, Property Management Building, Office no. 2, Austen

Street, Beaconsfield

1 Responses to RFQ

Responses to this RFQ [**Quotations**] must not include documents or reference relating to any other quotation or proposal. Any additional conditions must be embodied in an accompanying letter.

2 Broad-Based Black Economic Empowerment [B-BBEE]

Transnet fully endorses and supports the Government's Broad-Based Black Economic Empowerment Programme and it would therefore prefer to do business with local business enterprises who share these same values. Transnet will accordingly allow a "preference" to companies who provide a valid B-BBEE Verification Certificate. All procurement transactions will be evaluated accordingly.

2.1 B-BBEE Scorecard and Rating

As prescribed in terms of the Preferential Procurement Policy Framework Act (PPPFA), Act 5 of 2000 and its Regulations, Respondents are to note that the following preference point system is applicable to all bids:

- the 80/20 system for requirements with a Rand value of up to R1 000 000.00 (all applicable taxes included).
- Bidders are to note that if the 80/20 preference point system is stipulated in this RFQ and all Bids received exceed R1 000 000.00, the RFQ must be cancelled.

The value of this bid is estimated to be below R1 000 000.00 (all applicable taxes included) and therefore the **80/20** system shall be applicable.

When Transnet invites prospective suppliers to submit Proposals for its various expenditure programmes, it requires Respondents to have their B-BBEE status verified in compliance with the Codes of Good Practice issued in terms of the Broad Based Black Economic Empowerment Act No. 53 of 2003.

The Department of Trade and Industry recently revised the Codes of Good Practice on 11 October 2013 [Government Gazette No. 36928]. The Revised Codes will replace the Black Economic Empowerment Codes of Good Practice issued on 9 February 2007. The Revised Codes provide for a one year transitional period starting 11 October 2013. During the transitional period, companies may elect to be measured in terms of the Revised Codes or the 2007 version of the Codes. After the first year of the implementation of the Revised Codes, B-BBEE compliance will be measured in terms of the Revised Codes without any discretion. Companies which are governed by Sector-specific Codes will be measured in terms of those Sector Codes.

As such, Transnet will accept B-BBEE certificates issued based on the Revised Codes. Transnet will also continue to accept B-BBEE certificates issued in terms of the 2007 version of the Codes provided it was issued before 10 October 2014. Thereafter, Transnet will only accept B-BBEE certificates issued based on the Revised Codes.

Respondents are required to complete Annexure A [the B-BBEE Preference Point Claim Form] and submit it together with proof of their B-BBEE Status as stipulated in the Claim Form in order to obtain preference points for their B-BBEE status.

Note: Failure to submit a valid and original B-BBEE certificate or a certified copy thereof at the Closing Date of this RFQ will result in a score of zero being allocated for B-BBEE.

[Refer clause 19 below for Returnable Documents required]

3 Communication

- a) Respondents are warned that a response will be liable for disqualification should any attempt be made by a Respondent either directly or indirectly to canvass any officer(s) or employee of Transnet in respect of this RFQ between the closing date and the date of the award of the business.
- b) A Respondent may, however, before the closing date and time, direct any written enquiries relating to the RFQ to the following Transnet employee:

Name: Herman Conradie

Email: Herman.Conradie@transnet.net

c) Respondents may also, at any time after the closing date of the RFQ, communicate with Maggie Pain (Admin Support) on any matter relating to its RFQ response:

Telephone: 053 8383341 Email: Maggie.Pain@transnet.net

4 Tax Clearance

The Respondent's original and valid Tax Clearance Certificate must accompany the Quotation. Note that no business shall be awarded to any Respondent whose tax matters have not been declared by SARS to be in order.

VAT Registration

The valid VAT registration number must be stated here: ______ [if applicable].

6 Legal Compliance

The successful Respondent shall be in full and complete compliance with any and all applicable national and local laws and regulations.

7 Changes to Quotations

Changes by the Respondent to its submission will not be considered after the closing date and time.

8 Pricing

All prices must be quoted in South African Rand on a fixed price basis, excluding VAT.

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9 Prices Subject to Confirmation

Prices quoted which are subject to confirmation will not be considered.

10 Negotiations

Transnet reserves the right to undertake post-tender negotiations with selected Respondents or any number of short-listed Respondents.

11 Binding Offer

Any Quotation furnished pursuant to this Request shall be deemed to be an offer. Any exceptions to this statement must be clearly and specifically indicated.

12 Disclaimers

Transnet is not committed to any course of action as a result of its issuance of this RFQ and/or its receipt of a Quotation in response to it. Please note that Transnet reserves the right to:

- modify the RFQ's goods / service(s) and request Respondents to re-bid on any changes;
- reject any Quotation which does not conform to instructions and specifications which are detailed herein;
- disqualify Quotations submitted after the stated submission deadline;
- not necessarily accept the lowest priced Quotation;
- reject all Quotations, if it so decides;
- place an order in connection with this Quotation at any time after the RFQ's closing date;
- award only a portion of the proposed goods / service/s which are reflected in the scope of this RFQ;
- split the award of the order/s between more than one Supplier/Service Provider; or
- make no award at all.

Transnet reserves the right to award business to the highest scoring bidder/s unless objective criteria justify the award to another bidder.

13 Transnet's supplier integrity pact

Transpet's Integrity Pact requires a commitment from suppliers and Transpet that they will not engage in any corrupt and fraudulent practices, anti-competitive practices; and act in bad faith towards each other. The Integrity Pact also serves to communicate Transpet's Gift Policy as well as the remedies available to Transpet where a Respondent contravenes any provision of the Integrity Pact.

Respondents are required to familiarise themselves with the contents of the Integrity Pact which is available on the Transnet Internet site [www.transnet.net/Tenders/Pages/default.aspx] or on request. Furthermore, Respondents are required to certify that they have acquainted themselves with all the documentation comprising the Transnet Integrity Pact and that they fully comply with all the terms and conditions stipulated in the Transnet Supplier Integrity Pact as follows:

| | YES | | NO | |
|---|-----|---|----|---|
| L | | 1 | | L |

Should a Respondent need to declare previous transgressions or a serious breach of law in the preceding 5 years as required by Annexure A to the Integrity Pact, such declaration must accompany the Respondent's bid submission.

14 Evaluation Criteria

Transnet will utilise the following criteria [not necessarily in this order] in choosing a Supplier/Service Provider, if so required:

| Explanation |
|------------------------------------------------------------------------------------------------|
| Completeness of response and returnable documents |
| |
| Prequalification criteria, if any, must be met and whether the Bid materially |
| complies with the scope and/or specification given. |
| Pricing and price basis [firm] - whilst not the sole factor for consideration, |
| competitive pricing and overall level of unconditional discounts ¹ will be critical |
| B-BBEE status of company - Preference points will be awarded to a bidder for |
| attaining the B-BBEE status level of contribution in accordance with the table |
| indicated in Annexure A. |
| |

| L5 | Validity Period |
|----|----------------------------------------------------------------------------------------------------|
| | Transnet desires a validity period of 30 [thirty] days from the closing date of this RFQ. |
| | This RFQ is valid until |
| 16 | Banking Details |
| | BANK: |
| | BRANCH NAME / CODE: |
| | ACCOUNT HOLDER: |
| | ACCOUNT NUMBER: |
| 7 | Company Registration |
| | Registration number of company / C.C. |
| | Registered name of company / C.C. |
| 18 | Disclosure of Prices Quoted |
| | Respondents must indicate here whether Transnet may disclose their quoted prices and conditions to |
| | other Respondents: |
| | YES NO |
| | |

¹ Only unconditional discounts will be taken into account during evaluation. A discount which has been offered conditionally will, despite not being taken into account for evaluation purposes, be implemented when payment is

effected.

19 Returnable Documents

Returnable Documents means all the documents, Sections and Annexures, as listed in the tables below.

a) Respondents are required to submit with their Quotations the **Returnable Documents**, as detailed below.

Failure to provide all these Returnable Documents at the Closing Date and time of this RFQ may result in a Respondent's disqualification. Respondents are therefore urged to ensure that <u>all</u> these Documents are returned with their Quotations.

All Sections, as indicated in the footer of each page, must be signed, stamped and dated by the Respondent. Please confirm submission of these Returnable Documents by so indicating [Yes or No] in the table below:

| Returnable Documents | Submitted [Yes or No] |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| SECTION 1 : Notice to Bidders | |
| Valid and original B-BBEE Verification Certificate or certified copy thereof [Large Enterprises and QSEs] Note: failure to provide a valid B-BBEE Verification Certificate at the closing date and time of the RFQ will result in an automatic score of zero for preference | |
| Valid and original B-BBEE certificate/sworn affidavit or certified copy thereof from auditor, accounting officer or SANAS accredited Verification Agency [EMEs] Note: failure to provide a valid B-BBEE Verification Certificate at the closing date and time of the RFQ will result in an automatic score of zero being allocated for preference | |
| In the case of Joint Ventures, a copy of the Joint Venture Agreement or written confirmation of the intention to enter into a Joint Venture Agreement | |
| Original valid Tax Clearance Certificate [Consortia / Joint Ventures must submit a separate Tax Clearance Certificate for each party] | |
| SECTION 2 : Quotation Form | |
| SECTION 3: Vendor Application Form | |
| Original cancelled cheque or bank verification of banking details | |
| Certified copies of IDs of shareholder/directors/members [as applicable] | |
| Certified copies of the relevant company registration documents from Companies and Intellectual Property Commission (CIPC) | |
| Certified copies of the company's shareholding/director's portfolio | |
| Entity's letterhead | |
| Certified copy of VAT Registration Certificate [RSA entities only] | |
| Certified copy of valid Company Registration Certificate [if applicable] | |
| ANNEXURE A – B-BBEE Preference Points Claim Form | |
| ANNEXURE B – Project Specifications | |

Section 2 QUOTATION FORM

hereby offer to supply the goods/services at the prices quoted in the Price Schedule below, in accordance with the conditions related thereto.

I/We agree to be bound by those terms and conditions in:

- the Standard Terms and Conditions for the Supply of Goods or Services to Transnet [available on request]; and
- any other standard or special conditions mentioned and/or embodied in this Request for Quotation.

I/We accept that unless Transnet should otherwise decide and so inform me/us, this Quotation [and, if any, its covering letter and any subsequent exchange of correspondence], together with Transnet's acceptance thereof shall constitute a binding contract between Transnet and me/us.

I/We further agree that if, after I/we have been notified of the acceptance of my/our Quotation, I/we fail to deliver the said goods/service/s within the delivery lead-time quoted. Transnet may, without prejudice to any other legal remedy which it may have, cancel the order and recover from me/us any expenses incurred by Transnet in calling for Quotations afresh and/or having to accept any less favourable offer.

SERVICE FEES AND COST

I/We quote as follows for the service required excluding VAT:

| | | unit per | QUANTITY | UNIT RATE | AN Rand | IOUNT Cents |
|-------|---------------------------------------------------------------|-------------|-----------|----------------|------------|----------------|
| 1 | Loading of material at Beaconsfield Depot to site | kilometre | 86 | | | |
| 2 | General travelling to site/back (bakkie)(logsheets) | kilometre | | | | |
| 3 | Remove old fence | metres | 12575 | | | |
| 4 | Roll-up old fence into rolls | metres | 12575 | | | |
| 5 | Clean 1 metre on both sides of fence, remove all bushes etc. | metres* | 12575 | <u> </u> | | |
| 6 | Dig holes for poles 450 mm deep x 400mm diameter | metres | 126 | | | |
| 7 | Concrete 101mm anchor poles for gate @ 4,2 m (stand 7 days) | each | 2 | | | 1 |
| 8 | Concrete 50mm struts for anchor poles (stand 7 days) | each | 12 | | | |
| 9 | Concrete 75 mm anchor poles @ 60 metres crs (stand 7days) | each | 92 | | | |
| 10 | Concrete 50mm struts at every 6 th pole (stand 7days) | each | 92 | | | |
| 11 | Span fence barbed wire (new =3 wires) | metres | 37725 | | | |
| 12 | Span Steel Wire (new=3 wires) | metres | 37725 | | | |
| 13 | Install Y Standards @ 15 Metres apart & tie to specifications | each | 271 | | 1 | |
| 14 | Install Droppers @ 2,5 metres apart & tie to specifications | each | 1815 | | | |
| 15 | Install gate as specified | each | 2 | 175 1750 | | |
| 16 | Span Veldspan on both sides | rolls | 126 | | | |
| 17 | Removing of steel steepers from fence | each | 2389 | 30.7 | | |
| 18 | Remove old material to Infra Depot , Beaconsfield | kilometres | 86 | | | |
| 19 | Remove acess material to Infra Depot , Beaconsfield | kilometres | 86 | | | |
| 20 | Paint of poles (complete) | each | 94 | | ä | |
| 21 | Paint of y standards & droppers (200mm from top) | each | 2086 | -3/ <i>(</i>) | | |
| | | | | 1000 | 1 | |
| | | | | | ν. 2 | |
| | | | | | 3 | |
| | | | | 300 | | |
| | | | 1 | a , | | |
| | | | GROSS TO | OTAL R | 1 | |
| | | | VAT (14%) | | | |
| VIE O | FERNICONTRACTOR | | AMOUNT | | | |

Total Tender Price in Words:

Notes to Pricing:

- a) All Prices must be quoted in South African Rand, exclusive of VAT
- b) To facilitate like-for-like comparison bidders must submit pricing strictly in accordance with this price schedule and not utilise a different format. Deviation from this pricing schedule could result in a bid being disqualified.
- c) Please note that should you have offered a discounted price(s), Transnet will only consider such price discount(s) in the final evaluation stage if offered on an unconditional basis.

Section 3

Transnet Supplier Declaration/Application

The Financial Director or Company Secretary

Transnet Vendor Management has received a request to load your company on to the Transnet vendor database. Please furnish us with the following to enable us to process this request:

- 1. Complete the "Supplier Declaration Form" (SDF) on page 2 of this letter
- 2. Original cancelled cheque OR letter from the bank verifying banking details (with bank stamp)
- Certified copy of Identity document of Shareholders/Directors/Members (where applicable)
- 4. **Certified** copy of certificate of incorporation, CM29 / CM9 (name change)
- 5. Certified copy of share Certificates of Shareholders, CK1 / CK2 (if CC)
- 6. A letter with the company's letterhead confirming physical and postal addresses
- 7. Original or certified copy of SARS Tax Clearance certificate and Vat registration certificate
- 8. A signed letter from the Auditor / Accountant confirming most recent annual turnover and percentage black ownership in the company **AND/OR** BBBEE certificate and detailed scorecard from an accredited rating agency (SANAS member).

NB:

- Failure to submit the above documentation will delay the vendor creation process.
- Where applicable, the respective Transnet business unit processing your application may request further information from you. E.g. proof of an existence of a Service/Business contract between your business and the respective Transnet business unit etc.

IMPORTANT NOTES:

- a) If your annual turnover is less than R5 million, then in terms of the DTI codes, you are classified as an Exempted Micro Enterprise (EME). If your company is classified as an EME, please include in your submission, a signed letter from your Auditor Accountant confirming your company's most recent annual turnover is less than R5 million and percentage of black ownership and black female ownership in the company AND/OR BBBEE certificate and detailed scorecard from an accredited rating agency (e.g. permanent SANAS Member), should you feel you will be able to attain a better BBBEE score.
- b) If your annual turnover is between R5 million and R35million, then in terms of the DTI codes, you are classified as a Qualifying Small Enterprise (QSE) and you claim a specific BBBEE level based on any 4 of the 7 elements of the BBBEE score-card, please include your BEE certificate in your submission as confirmation of your status.

 NB: BBBEE certificate and detailed scorecard should be obtained from an accredited rating agency (e.g. permanent SANAS Member).
- c) If your annual turnover is in excess of R35million, then in terms of the DTI codes, you are classified as a Large Enterprise and you claim a specific BEE level based on all seven elements of the BBBEE generic score-card. Please include your BEE certificate in your submission as confirmation of your status.
 - NB: BBBEE certificate and detailed scorecard should be obtained from an accredited rating agency (permanent SANAS Member).
- d) To avoid PAYE tax being automatically deducted from any invoices received from you, you must also contact the Transnet person who lodged this request on your behalf, so as to be correctly classified in terms of Tax legislation.
- e) Unfortunately, <u>No payments can be made to a vendor</u> until the vendor has been registered, and no vendor can be registered until the vendor application form, together with its supporting documentation, has been received and processed.
- f) Please return the completed Supplier Declaration Form (SDF) together with the required supporting documents mentioned above to the Transnet Official who is intending to procure your company's services/products in order that he/she should complete and Internal Transnet Departmental Questionnaire before referring the matter to the appropriate Transnet Vendor Master Office.

Regards,

Supplier Declaration Form

| Company Tradin | g Name | | | | | | | | | | |
|---------------------|---------------------------------------|--------------|------------|---------------------------------------|----------|-------------------------------|-------------|-------------|-------------|---------------|-----|
| Company Regist | · | | | · · · · · · · · · · · · · · · · · · · | | | | | :- | | |
| Company Registr | ation Number Or | ID Numbe | r If A Sol | e Prop | rietor | | | | | | |
| Form of entity | CC | Trust | Pty | y Ltd | <u> </u> | _imit | ted | Partne | ership | Sole Propriet | tor |
| VAT number (if r | egistered) | | ** * * ** | | | | | | | <u> </u> | |
| Company Teleph | none Number | | | | <u>-</u> | | | <u>-</u> | | | |
| Company Fax N | | | | | <u></u> | | | | | | |
| Company E-Mail | | | | | | | | | | <u>.</u> | |
| Company Websi | te Address | | | | | | | | | | |
| Bank Name | · · · · · · · · · · · · · · · · · · · | | | Bank | Accou | ınt Nu | umber | | | | |
| Postal | | | | | | | | | 100 | <u> </u> | |
| Address Physical | | | | | | | | | Co | de | |
| Address | | | | | | | | | Co | de | |
| Contact Person | | | | | | | | | | | |
| Designation | | | | | | | _ | 11 | | | |
| Telephone | | | | | | | 1 | | | | |
| Email | | | | | 4 | 1 | | | | | |
| Annual Turnover F | Range (Last Finan | icial Year) | < R5 M | illion | | R | 5-35 m | illion | | > R35 million | |
| Does Your Comp | any Provide | | Product | | | | Services | | | Both | |
| Area Of Delivery | Mtt | | Nation | | | Pr | rovincial | | | Local | |
| Is Your Company | | | 7 | 7, | | | Public Priv | | Private | | |
| Does Your Comp | | | | | | Yes No | | | No | | |
| Main Product Or | Service Supplied | I (E.G.: Sta | tionery/C | onsult | ing) | | | | <u>.</u> | | |
| BEE Ownership | Details | | | | | | | | | | |
| % Black Ownership | % | Black wome | n owners | nip | | % Disabled person/s ownership | | | | | |
| Does your comp | any have a BEE | certificate | • | | Yes | | No | | | | |
| What is your bro | ad based BEE s | status (Lev | el 1 to 9 | / Unk | nown |) | | • | | | |
| How many perso | onnel does the f | irm employ | , | Perr | nane | nt | | P | art time | | |
| Transnet Contac | t Person | | | | | | | | | | |
| Contact number | | | | | | | | · - | | | |
| Transnet operati | ng division | | | | | | | - | | | |
| Duly Authorise | d To Sign For A | And On Be | half Of | Firm / | Org | anis | ation | | | | |
| Name | | | | | Ť | Desi | gnation | | | | |
| Signature | | | | <u></u> . | | Date | | | | | |
| Stamp And Sig | nature Of Com | missioner | Of Oath |) | | | | | | | |
| Name | | | | | | Date |) | | | | |
| Signature | | | | | \neg | Tele | phone | No. | | | |
| | | | | | | | | | · · · · · · | | |

RFQ KBY/52946 FOR THE SUPPLY OF: REPLACE FENCING BETWEEN EMMAUS AND PETRUSBURG STATIONS FOR A PERIOD OF 3 MONTHS

ANNEXURE A: B-BBEE PREFERENCE POINTS CLAIM FORM

This preference form contains general information and serves as a claim for preference points for Broad-Based Black Economic Empowerment [**B-BBEE**] Status Level of Contribution.

1. INTRODUCTION

- 1.1 A total of 20 preference points shall be awarded for B-BBEE Status Level of Contribution.
- 1.2 Failure on the part of a Bidder to fill in and/or to sign this form and submit a B-BBEE Verification Certificate from a Verification Agency accredited by the South African Accreditation System [SANAS] or a Registered Auditor approved by the Independent Regulatory Board of Auditors [IRBA] or an Accounting Officer as contemplated in the Close Corporation Act [CCA] together with the bid will be interpreted to mean that preference points for B-BBEE Status Level of Contribution are not claimed.
- 1.3 Transnet reserves the right to require of a Bidder, either before a Bid is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by Transnet.

2. GENERAL DEFINITIONS

- 2.1 "all applicable taxes" include value-added tax, pay as you earn, income tax, unemployment insurance fund contributions and skills development levies;
- 2.2 **"B-BBEE"** means broad-based black economic empowerment as defined in section 1 of the Broad-Based Black Economic Empowerment Act;
- on its overall performance using the relevant scorecard contained in the Codes of Good Practice on Black Economic Empowerment, issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act;
- 2.4 **"Bid"** means a written offer in a prescribed or stipulated form in response to an invitation by Transnet for the provision of goods, works or services;
- 2.5 **"Broad-Based Black Economic Empowerment Act"** means the Broad-Based Black Economic Empowerment Act, 2003 [Act No. 53 of 2003];
- 2.6 **"comparative price"** means the price after the factors of a non-firm price and all unconditional discounts that can utilised have been taken into consideration;
- 2.7 "consortium or joint venture" means an association of persons for the purpose of combining their expertise, property, capital, efforts, skills and knowledge in an activity for the execution of a contract;

- 2.8 "contract" means the agreement that results from the acceptance of a bid by Transnet;
- 2.9 "EME" means any enterprise with an annual total revenue of R5 [five] million or less as per the 2007 version of the B-BBEE Codes of Good Practice and means any enterprise with an annual total revenue of R10 [ten] million or less as per the Revised Codes of Good Practice issued on 11 October 2013 in terms of Government Gazette No. 36928;
- 2.10 "firm price" means the price that is only subject to adjustments in accordance with the actual increase or decrease resulting from the change, imposition, or abolition of customs and excise duty and any other duty, levy, or tax, which, in terms of the law or regulation, is binding on the contractor and demonstrably has an influence on the price of any supplies, or the rendering costs of any service, for the execution of the contract;
- 2.11 "functionality" means the measurement according to predetermined norms, as set out in the bid documents, of a service or commodity that is designed to be practical and useful, working or operating, taking into account, among other factors, the quality, reliability, viability and durability of a service and the technical capacity and ability of a bidder;
- 2.12 "non-firm prices" means all prices other than "firm" prices;
- 2.13 "person" includes reference to a juristic person;
- 2.14 "QSE" means any enterprise with an annual total revenue between R5 [five] million and R35 [thirty five] million as per the 2007 version of the B-BBEE Codes of Good Practice and means any enterprise with an annual total revenue of between R10 [ten] million and R50 [fifty] million as per the Revised Codes of Good Practice issued on 11 October 2013 in terms of Government Gazette No. 36928
- 2.15 "**rand value**" means the total estimated value of a contract in South African currency, calculated at the time of bid invitations, and includes all applicable taxes and excise duties;
- 2.16 "subcontract" means the primary contractor's assigning or leasing or making out work to, or employing another person to support such primary contractor in the execution of part of a project in terms of the contract;
- 2.17 **"total revenue"** bears the same meaning assigned to this expression in the Codes of Good Practice on Black Economic Empowerment, issued in terms of section 9(1) of the Broad-Based Black Empowerment Act and promulgated in the Government Gazette on 9 February 2007;
- 2.18 **"trust"** means the arrangement through which the property of one person is made over or bequeathed to a trustee to administer such property for the benefit of another person; and
- 2.19 **"trustee"** means any person, including the founder of a trust, to whom property is bequeathed in order for such property to be administered for the benefit of another person.

3. ADJUDICATION USING A POINT SYSTEM

- 3.1 The Bidder obtaining the highest number of total points for the evaluation criteria as enumerated in Section 2 of the RFP will be awarded the contract, unless objective criteria justifies the award to another bidder.
- 3.2 Preference points shall be calculated after prices have been brought to a comparative basis taking into account all factors of non-firm prices and all unconditional discounts.

- 3.3 Points scored will be rounded off to 2 [two] decimal places.
- 3.4 In the event of equal points scored, the Bid will be awarded to the Bidder scoring the highest number of preference points for B-BBEE.
- 3.5 However, when functionality is part of the evaluation process and two or more Bids have scored equal points including equal preference points for B-BBEE, the successful Bid will be the one scoring the highest score for functionality.
- 3.6 Should two or more Bids be equal in all respect, the award shall be decided by the drawing of lots.

"PREVIEW ONLY

4. POINTS AWARDED FOR B-BBEE STATUS LEVEL OF CONTRIBUTION

4.1 In terms of the Preferential Procurement Regulations, 2011, preference points shall be awarded to a Bidder for attaining the B-BBEE status level of contribution in accordance with the table below:

| B-BBEE Status Level of Contributor | Number of Points [Maximum 20] |
|------------------------------------|----------------------------------|
| 1 | 20 |
| 2 | 18 |
| 3 | 16 |
| 4 | 12 |
| 5 | 8 |
| 6 | 6 |
| 7 | 4 |
| 8 | 2 |
| Non-compliant contributor | 0 |

- 4.2 Bidders who qualify as EMEs in terms of the 2007 version of the Codes of Good Practice must submit a certificate issued by an Accounting Officer as contemplated in the CCA or a Verification Agency accredited by SANAS or a Registered Auditor. Registered auditors do not need to meet the prerequisite for IRBA's approval for the purpose of conducting verification and issuing EME's with B-BBEE Status Level Certificates.
- 4.3 Bidders who qualify as EMEs in terms of the Revised Codes of Good Practice issued on 11 October 2013 in terms of Government Gazette No. 36928 are only required to obtain a sworn affidavit on an annual basis confirming that the entity has an Annual Total Revenue of R10 million or less and the entity's Level of Black ownership.
- 4.4 In terms of the 2007 version of the Codes of Good Practice, Bidders other than EMEs must submit their original and valid B-BBEE status level verification certificate or a certified copy thereof, substantiating their B-BBEE rating issued by a Registered Auditor approved by IRBA or a Verification Agency accredited by SANAS.
- In terms of the Revised Codes of Good Practice issued on 11 October 2013 in terms of Government Gazette No. 36928, Bidders who qualify as QSEs are only required to obtain a sworn affidavit on an annual basis confirming that the entity has an Annual Total Revenue of R50 million or less and the entity's Level of Black ownership. Large enterprises must submit their original and valid B-BBEE status level verification certificate or a certified copy thereof, substantiating their B-BBEE rating issued by a Registered Auditor approved by IRBA or a Verification Agency accredited by SANAS.
- 4.6 A trust, consortium or joint venture will qualify for points for its B-BBEE status level as a legal entity, provided that the entity submits its B-BBEE status level certificate.
- 4.7 A trust, consortium or joint venture will qualify for points for their B-BBEE status level as an unincorporated entity, provided that the entity submits their consolidated B-BBEE scorecard as if they were a group structure and that such a consolidated B-BBEE scorecard is prepared for every separate bid.
- 4.8 Tertiary institutions and public entities will be required to submit their B-BBEE status level

- certificates in terms of the specialised scorecard contained in the B-BBEE Codes of Good Practice.
- 4.9 A person will not be awarded points for B-BBEE status level if it is indicated in the Bid documents that such a Bidder intends subcontracting more than 25% [twenty-five per cent] of the value of the contract to any other enterprise that does not qualify for at least the same number of points that such a Bidder qualifies for, unless the intended subcontractor is an EME that has the capability and ability to execute the subcontract.
- 4.10 A person awarded a contract may not subcontract more than 25% [twenty-five per cent] of the value of the contract to any other enterprise that does not have an equal or higher B-BBEE status level than the person concerned, unless the contract is subcontracted to an EME that has the capability and ability to execute the subcontract.
- 4.11 Bidders are to note that in terms of paragraph 2.6 of Statement 000 of the Revised Codes of Good Practice issued on 11 October 2013 in terms of Government Gazette No. 36928, any representation made by an entity about its B-BBEE compliance must be supported by suitable evidence or documentation. As such, Transnet reserves the right to request such evidence or documentation from Bidders in order to verify any B-BBEE recognition claimed.

5. B-BBEE STATUS AND SUBCONTRACTING

| B-BB | EE SIAII | US AND SUBCONTRACTING | |
|------|-----------|-----------------------------------------------------------------------------|-----------------|
| 5.1 | Bidders | who claim points in respect of B-BBEE Status Level of Contri | bution must |
| | comple | te the following: | |
| | B-BBEE | Status Level of Contributor [maximum of 20 points |] |
| | Note: P | oints claimed in respect of this paragraph 5.1 must be in accordance | with the table |
| | reflected | in paragraph 4.1 above and must be substantiated by means of a B-B | BEE certificate |
| | issued b | y a Verification Agency accredited by SANAS or a Registered Auditor approv | ed by IRBA or |
| | a sworn | affidavit in the case of an EME or QSE. | |
| 5.2 | Subcon | tracting: | |
| | Will any | portion of the contract be subcontracted? YES/NO [delete which is not appli | icable] |
| | | ndicate: | cabic |
| | (i) | | % |
| | (ii) | The name of the subcontractor | |
| | (iii) | The B-BBEE status level of the subcontractor | ************** |
| | (iv) | Is the subcontractor an EME? | YES/NO |
| | () | | . 25, 5 |
| 5.3 | Declarat | ion with regard to Company/Firm | |
| | (i) | Name of Company/Firm | |
| | (ii) | VAT registration number | |
| | (iii) | Company registration number | |
| | (iv) | Type of Company / Firm [TICK APPLICABLE BOX] | |
| | | ☐ Partnership/Joint Venture/Consortium | |
| | | ☐One person business/sole propriety | |
| | | □Close Corporations | |
| | | □Company (Pty) Ltd | |
| | | | |

| | •••• | | |
|-----|------------------|-------------------------------------------------------------|-----------------------------------------------------------|
| | (vi) Com | onany Classification (TICK ADD | I TARLE ROY) |
| | | npany Classification [TICK APP | LICABLE BOX |
| | | Manufacturer | |
| | | Supplier | |
| | | Professional Service Provider | |
| | | Other Service Providers, e.g Total number of years the comp | ransporter, etc vany/firm has been in business |
| ВІ | D DECLARATIO | N | |
| | | | s/she is duly authorised to do so on behalf of the |
| | | | on the B-BBEE status level of contribution indicated in |
| pai | ragraph 4 above, | qualifies the company/firm for | r the preference(s) shown and I / we acknowledge that: |
| | (i) The | information furnished is true | and correct. |
| | (ii) In | the event of a contract bei | ng awarded as a result of points claimed as shown in |
| | pa | ragraph 6 above, the contrac | tor may be required to furnish documentary proof to the |
| | sa | itisfaction of Transnet that the | claims are correct. |
| | | | ntribution has been claimed or obtained on a fraudulent |
| | | | of contract have not been fulfilled, Transnet may, in |
| | | ddition to any other remedy it | |
| | | disqualify the person from | • • • |
| | (b | person's conduct; | amages it has incurred or suffered as a result of that |
| | (c | | laim any damages which it has suffered as a result of |
| | | , | rable arrangements due to such cancellation; |
| | (d | - | ractor, its shareholders and directors, and/or associated |
| | | | nolders and directors who acted in a fraudulent manner, |
| | | • | om Transnet for a period not exceeding 10 years, after |
| | | the audi alteram partem [h | near the other side] rule has been applied; and/or |
| | (e | e) forward the matter for crin | ninal prosecution. |
| | WITNESSES: | 1 | |
| | | | |
| 1. | | | |
| | | | SIGNATURE OF BIDDER |
| 2. | | | |
| | | | DATE: |
| | COMPANY NAME | E: | |
| | | | |
| | | | 16 |

(v) Describe Principal Business Activities

TRANSNET LIMITED

(REGISTRATION NO 1990/000900/06)



BEACONSFIED DEPOT

CONTRACT

REPLACE FENCING BETWEEN EMMAUS AND PETRUSBURG BLOEMFONTEIN – BEACONSFIELD

Part A: GENERAL

This **Contract** is a fencing contract which involves removing of existing fence and replacing with a new fence on Transnet reserves.

- 1. 83.697 kilometres to 77.423 kilometres LEFT SIDE.
- 2. 83.697 kilometres to 77.423 kilometres RIGHT SIDE
- 3. 93.795 kilometres to 86.459 kilometres RIGHT SIDE

TOTAL OF 19.885 kilometre of fencing between Emmaus and Petrusburg stations.

The work consists of

- 1. Remove all bushes and trees in the fence (1 metre both sides).
- 2. Plant of steel poles and struts as per specifications.
- 3. Spanning of 3 barbed wire as per specification as indicated red.
- 4. Spanning of 3 steel wire as per specification as indicated in red.
- 5. Fastening of droppers and Y standards.
- 6. Spanning of Veldspan both sides (section a)
- 6b. Spanning of standard 8 wire fence (section b)
- 7. Remove all excess material to Beaconsfield Depot
- 8. Remove all old material to Bloemfontein depot.

The work will be done by hand, and tenderers to provide all the necessary equipment needed to complete the works on Transnet property in the geographical area controlled by the Depot Engineer, Beaconsfield, Kimberley as per the Schedule of Quantities and Prices.

A.2 TO BE SUPPLIED BY TRANSNET

All fencing materials, including wire, straining poles, droppers and gates will be supplied at the Beaconsfield Infra Depot in Austen Street, Kimberley.

Site Access certificate and keys for access to mechanization roads.

A.3 TO BE SUPPLIED BY THE CONTRACTOR

The Contractor is responsible to supply his/her own labour, equipment, food, water and accommodation needed to complete the work covered by the contract.

The Contractor shall be responsible for the transport of all new fencing material to the work site from the Infra Depot in Austen Street, Beaconsfield, Kimberley

Further he/she will be responsible for the return of any old fencing material released during construction and excess material to the Infra Depot in Austen Street, Beaconsfield, Kimberley.

The Contractor shall provide safe and secure storage facilities and be responsible for all equipment and material brought onto the site.

The Contractor shall provide at his/her own cost any security measures he/she may deem necessary for safe and effective execution of the work within the work area.

Under no circumstances will Transnet provide accommodation facilities or sites for workers in the section.

Transnet Limited **Schedule of Plant** must include a suitable vehicle, on the contract site, for the transport of workers and material to or from the work site and to transport personnel in case of emergency to nearest hospital on a E.4 D document.

No tender will be considered unless the E.4 D document is completed.

Contractor to provide all tools and equipment to perform duties as described.

A.4 SITE MEETINGS

These meetings will be held under the chairmanship of the Technical Officer or his/her deputy. It is compulsory for contractors to attend on time.

A.5 SITE BOOKS

The Contractor shall provide two 100 leaf Triplicate Books (Croxley JD222 or similar) to use as a **Site Instruction Book** and a **Site Diary** at the site as directed by the Technical Officer for the duration of the contract.

The **Site Instruction Book** shall only be used by the Technical Officer or his/her deputy and will be used for the issuing of instructions to the Contractor.

The Contractor shall complete the **Site Diary** and a detailed description of the work done shall be recorded on a daily basis. The attendance register of contract workers is also to be written in the **Site Diary** as also his/her daily Safety Talk. Neither of the books shall be removed from the site without the permission of the Technical Officer or his/her deputy.

A.6 TEMPORARY CAMPS

No facilities are available at the mentioned work areas. The Contractor must arrange for all facilities needed, and these costs must be included in the tendered price. All camp facilities to be adhere to the Standard specification and Contractor will not start his/her contract until the Technical Officer is satisfied with the camp facilities.

A.7 VELD FIRES

Under no circumstances may the Contractor or his/her employees make fires within the Transnet reserve. The contractor will be liable for any damages caused by fires made by staff on site.

Under no circumstance may the Contractor or his employer collect wood within the Transnet reserve or on the adjacent farms.

PART B: PROJECT SPECIFICATIONS

B.1 SCOPE OF WORK

This contract covers the erection of fences and any associated work, to be performed by the Contractor for the successful completion of this contract, in accordance with the true meaning and intent of the contract document.

This contract calls for the supply of all equipment, transport and labour to complete the following tasks:

- 1. Provision of transport of new material from Infra Depot to work site.
- 2. Vehicle present at all times at working site
- 3. Cleaning 1 metre both sides of fence.
- 4. Erecting of new fence between kilometres stipulated above.
- 5. Erecting of steel poles concreted and stand for 7 days.
- 6. Erecting of all steel work to be done.
- 7. Provision of transport of excess and old material back to Infra Depot
- 8. Site to be left in condition as found at the start.

All the above work will be performed by the Contractor on Transnet property under the control of the Depot Engineer, Infrastructure Maintenance, Beaconsfield, Kimberley.

B.2 STANDARDS OF WORKMANSHIP

All work is to be done according to the relevant specifications.

KY-100-I-67 B KY-100-I-67 F

Line book Plan (Blue = situation where work is to be completed new fence)
All the work must be carried out in accordance with the specifications of the contract.

Where material has been supplied by Transnet and the material has been spoilt during execution of the work the contractor will be responsible to make good.

All work will be approved by the Technical Officer before payment is affected.

B.3 DURATION OF WORK

The Contractor shall not exceed the maximum duration of work stipulated in the contract. He/she shall make available sufficient resources to complete the work as specified.

B.4 PROGRAMME OF WORK AND METHOD STATEMENT

The Contractor shall undertake the planning and programming of the work covered in the contract as stipulated in the Schedule of Quantities and Prices. **Proposed work programme and method statement to be submitted with the tender.**

B.5 PERFORMANCE MONITORING AND EVALUATION

The Contractor shall at all times be responsible for **supervision** of the work and for follow-up inspections to monitor the work performed.

The Technical Officer or his/her deputy may at any time during the operation carry out inspections of the Contractor's performance, methods and procedures.

The Contractor shall immediately take appropriate remedial action in areas where the specified standard of work is not achieved.

B.6 INSPECTION OF THE WORK

Inspection of the work will be done within one week after the Contractor has notified the Technical Officer in writing that the work has been completed.

If the work is found to be satisfactory, the Contractor must hand in his/her tax invoice for payment.

For the duration of this Contract, the Contractor is required to inspect the working process as well as remedial work.

B.7 REMEDIAL WORK

The Contractor shall carry out remedial work to all work where the standard of workmanship has not been achieved at **no cost** to Transnet.

The T/O may, at any time after the inspection order the Contractor to carry out remedial action, which is to be done within 7 working days after being ordered to do so.

Failure to commence with remedial work the Technical Officer may arrange for such action to be carried out by other Contractors at the cost of the responsible Contractor.

B.8 POLLUTION PREVENTION AND ENVIRONMENTAL AWARNESS

According to the Environmental Management System of Transnet, pollution must be prevented as far as possible and where pollution occurs due to the negligence of the Contractor, he\she will be responsible for corrective actions.

B.9 MEASUREMENT AND PAYMENT

Penalties of R100 per day will be levied for late completion of work.

Payment can be expected within 60 days after the invoice date.

PART C: HEALTH AND SAFETY

C.1 HEALTH AND SAFETY PLAN

Prior to the start of the contract the contractor is required to do a risk assessment of each task and to provide a safety plan to address these risks.

This safety plan is to be provided and implemented by the contractor before the work commences and a copy to be kept on site

The Contractor must adhere to this Safety Plan at all times.

The Contractor's Health and Safety Programme must make provision for the following risks.

- a. Working adjacent to passing trains.
- b. Transporting of material to and from work site.
- c. Transporting of people to and from site.
- d. Loading and off-loading of both new and old material.
- e. Working close to Overhead Traction equipment. Electrical shock
- f. Uneven surfaces.
- g. Blue asbestos. (to be reported to Technical Officer immediately)
- h. Working with saws, wiring tools and digging tools.
- i. Working with barbed wire, high tensile steel wire and other steel material
- j. Veld fires.
- k. Transport of injured workers from work site to nearest hospital.

The contractor is to provide personal protection equipment (PPE) in relation to the risk and type of work to be executed.

All workers on this contract shall be required to wear reflective vests and safety boots at all times. (To be supplied by the Contractor).

Before the contractor may start any work, he/she and his/her entire team will be required to attend a compulsory Safety Induction given by a designated Transnet Safety representative.

The contractor or his/her supervisor will be responsible to hold a Safety Talk every morning before work commences (which is recorded in the Site Diary).

The contractor is to have available a suitable First Aid Kit and someone trained in first aid on site at all times.

The contractor is to have available a suitable Fire Fighting Equipment and someone trained in firefighting on site at all times.

No open fires are allowed on Transnet property. Any fires that may occur should be distinguished immediately at own costs. Any claims due to fire caused by the Contractor will be for his/her own account.

No work is to be done within a 3m distance of the railway line without the presence of a flagman.

All workers shall work as a team in one area in the Transnet reserve.

The contractor shall provide a cell phone, in good working order and with sufficient airtime, to his team leader to be available on site at all times.

The Contractor shall appoint at the work site sufficient personnel whose sole task shall be to be on the lookout for approaching rail traffic. These employees shall operate an audible warning device to timeously warn all people on the work site of approaching rail traffic.

In addition to risk assessment and safety plan, environmental management plan, quality control plan and Safe Operating Procedures that are specific to this job must be submitted prior to work commencement.

Schedule not to be changed after Contract has been posted in relevant Contract Box.

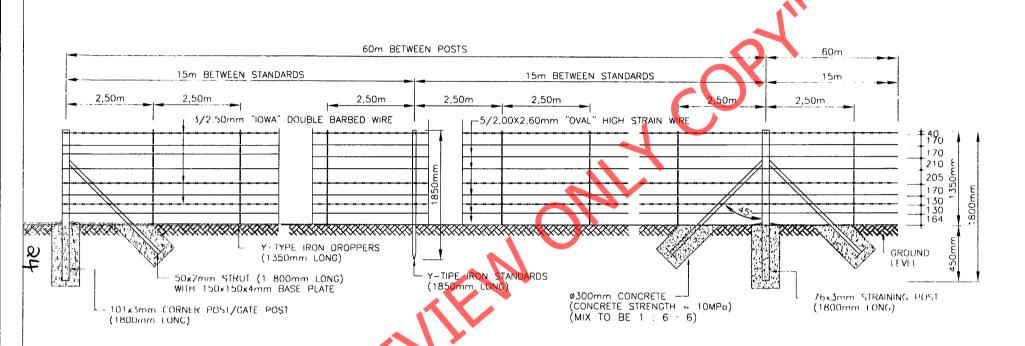
IN ONLY COPY

WEIGHT

Vispan- Petrusburg

Quotation for Fence Material

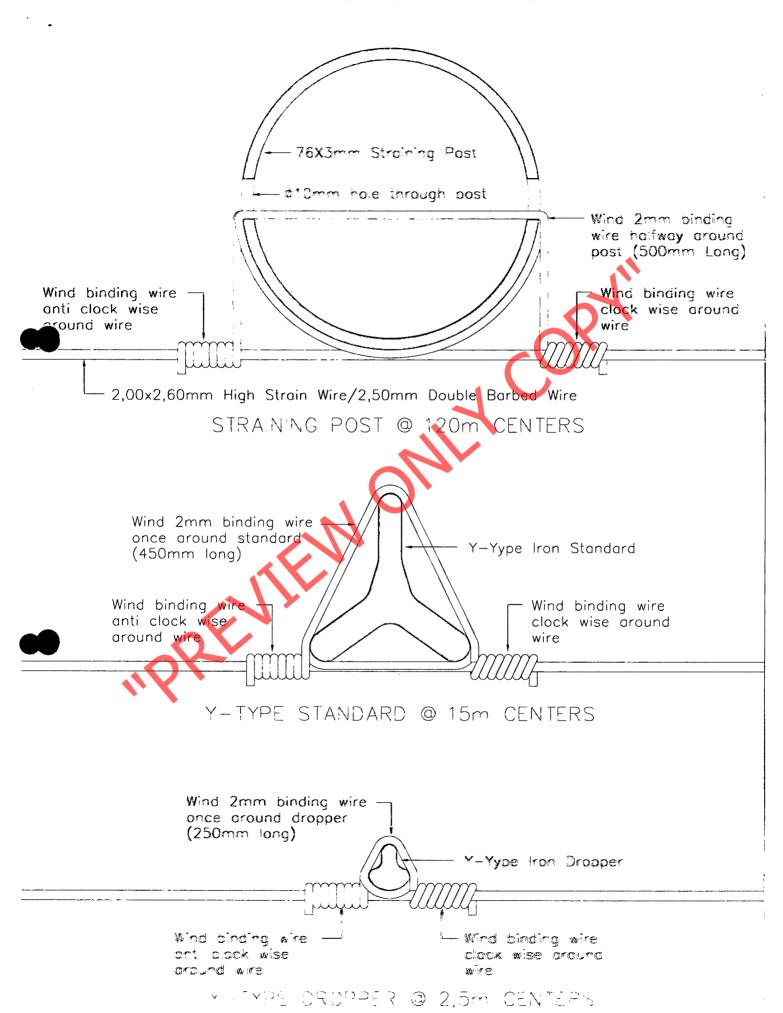
| | Description | Unit | .Amount | weight | total |
|------------------------|---------------------------------------|----------|---------|--------|----------|
| Corner Posts | 1800x100x 3mm post cap & base plate | each | 2 | 8.7 | 17.40 |
| Corner Posts | 1800x 75x 3mm post cap & base plate | each | 92 | | |
| Stock Stays | 1800x 50 x1.6 mm with base plate | each | 32 | | |
| Y Section Standards | 1,85m high | each | 271 | 3.5 | 948.70 |
| T Section Droppers | 1,40 m high | each | 1815 | 0.5 | 907.25 |
| Barbed Wire | IOWA 2,50 x 540 m | per roll | 84 | 50 | 4200.00 |
| High Strain Steel Wire | lightly galvanised 1500m oval 2x2.6mm | per roll | 26 | 50 | 1300.00 |
| Binding Wire | 2 x 2015 m 50 kg | per roll | 2 | 50 | 100.00 |
| Gates | 1,8m x 4,2m | each | 2 | | 6.00 |
| BOLTS | M10x110mm length | each | 32 | 0.1 | 3.19 |
| nuts | m10 | each | 32 | | 0.00 |
| washers | m10 | each | 32 | | 0.00 |
| Cement | per 50 kg bag | each | 41 | 50 | 2050.00 |
| veldspan | 10m rolls | sheets | 126 | 50 | 6288.00 |
| | | | | | |
| | | | | | |
| | | | | | 16403315 |
| W.E. Mc Callum | | | | | |



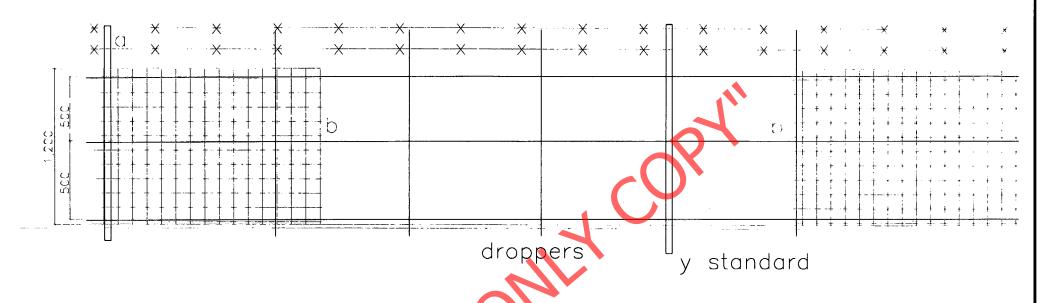
TYPICAL VIEW OF 8 WIRE FENCE - SMALL STOCK

100-

572



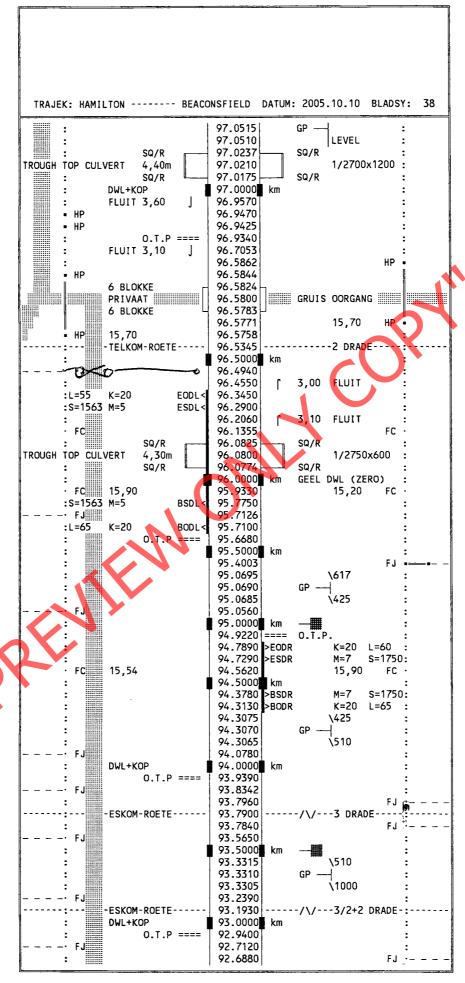
a=erect an addition barbed wire (2 lengths) b=erecting of veldspan fence



RICAL VIEW OF A VELDSPAN FENCE

TYPICAL VIEW OF GATE POSTS AT CATTLE GUARDS

KY-100 + 6/ K



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Section of the sectio

TRAJEK: HAMILTON ----- BEACONSFIELD DATUM: 2005.10.10 BLADSY: 37 15,60 🕈 92.5000 km : 15,60 92.4578 92.3540 \1000 92.3535 92.3530 \208 92.1028 92.0000 km DWL+KOP 91.9401 O.T.P ==== 91.9384 FJ 91.9275 \208 91.9270 91.9265 \800 91.6825 \800 91.6820 91.6815 LEVEL 91.6805 ========ONGEMAGTIG VOETPAD ====== 91.6800 **FLUIT 3,30** 91.6575 91.6184 -ESKOM-ROETE----91.5531 -/\/---3 DRADE-91.5466 91.5430 PAD UIT 91.5409 91.5384 FJ 91.5200 91.5000 km 91.4475 FJ VOETPAD ====== 91.4260 ====== ONGEMAGTIG 91.4085 FLUIT 3,50 91.3475 LEVEL 91.3470 91.3465 154 91.3060 91.2876 R1-1200+W403: 91.2861 91,2850 PRIVAAT 15.80 GRUIS OORGANG 91.2830 15,80 91.2790 15,70 HР :R1-1200+W403 4,80 91.2781 91.2738 91.1952 SQ/R SQ/R 5,60m 1/ø600mm BETONPYP 91.1940 YPDUIKER SQ/R 91.1923 91.1420 FJ VOETPAD ======= 91.1370 ======== ONGEMAGTIG 91.1060 91.0000 km DWL+KOP 90.9040T==== O.T.P. BROKEN 90.9010 90.6135 90.6130 90.6125 EODL< 90.5480 :L=50 K = 40FC · FC 90.5235 90.5000 km :S=1136 M=5 90.4980 ESDL. 90.4740 FJ FC 90.3740 FC 90.2510 90.2460 SQ/R 90.2449 SQ/R 90.2430 1/1800x700 :S&B DUIKER 4,30m SQ/R 90.2399 SQ/R 90.2310 90.2023 FC FC ----/\/---3/2+2 DRADE-90.1660 -ESKOM-ROETE-FC 90.0414 FC 90.0000 km DWL+KOP (90,0km) 89.9463 FC 89.8800 FC

The second of

TRAJEK: HAMILTON ----- BEACONSFIELD DATUM: 2005.10.10 BLADSY: 36 15,60 FC : · FC 89.7176 15,60 89.7030 FJ ■ :S=1136 M=5 BSDL < 89.5830 89.5330 :L=50 K=40 BODL < 89.5000 km 89.4270T==== O.T.P. **FLUIT 3,30** 89.2450 DWL+KOP 89.0000 km FLUIT 3,10 88,9955 -∙ FJ 88.9330 O.T.P ==== 88.9000 : 88.8651 HP 4 BLOKKE PRIVAAT 88.8644 88.8630 GRUIS OORGANG 4 BLOKKE 88.8615 HP 88.8599 16,10 " НР 15,70 3,30 FLUIT 88.7295 ----/\/---3/2+2 DRADE 88.5470 -ESKOM-ROETE-----88.5000 km ۴J 88.4995 88.4800 3,50 FLUIT ======== ONGEMAGTIG 88.1256 VOETPAD ======== SQ/R 88.1126 SQ/R 2/ø450mm BETONPYPE: -KRAGKABEL---88.1115 :PYPDUIKER 4,80m 88.1110 88.1100 ----DEUR PYP-----:¢200mm WATERPYP---88.1094 88.0620 SQ/R SQ/R **√**\/---3+2 DRADE---ESKOM-ROETE-88.0550 FJ 88.0420 ======= ONGEMAGTIG VOETPAD ====== 88.0355 15,80 🖠 88**.**0000 🛊 km : 15,70 DWL+KOP 0.T.P ==== :BROKEN **87.**9520 ======== ONGEMAGTIG VOETPAD ======== 87.8450 87.5630 \724 87.5625 87,5620 100 87.5000 km GABION W/W GABION W/W 87.3835 :S&B DUIKER 6,10m 87.3810 1/1800x1000 GABION W/W 87.3788 GABION W/W 87.2635 87.2525 87.0080 ==== 0.T.P. 15,70 15,60 DWL+KOP 87.0000 86.5000 km 86.4593 K=50 L=85 : 86.3730 >EODR 15,90 FC FC 15,60 86.3320 86.2880 M=17 S=735 >ESDR 86.2042 :S.W.B. · FC 15,90 86.1625 15,60 SQ/R 86.1484 SQ/R 86.1450 1/2750x1200 TROUGH TOP CULVERT 4,30m 86.1424 SQ/R SQ/R 15,70 86.0210 86.0000 km DWL+KOP 85.9498 17,70 85.9484 13,30 85.9340 >BSDR M=17 S=735 85.8695 \138 85.8690 \100 85.8685 85.8490 >BODR K=50 L=85 85.7620 ==== O.T.P. BROKEN 85.5000 km 85.3050 **FLUIT 3,65** 85.2357 **FLUIT 3,50** 85.0561 0.T.P ==== 85.0030

مر المراجعة

