



**Transnet Freight Rail**, a division of

**TRANSNET SOC LTD**

Registration Number 1990/000900/30

[hereinafter referred to as **Transnet**]

**REQUEST FOR QUOTATION [RFQ] No RME CPT 039/2014**

**FOR THE SUPPLY AND DELIVERY OF: OHTE PULLEY 3**

**FOR DELIVERY TO: BELLVILLE SQUARE STORES, CAPE TOWN**

**ISSUE DATE: 18 FEBRUARY 2014**

**CLOSING DATE: 27 FEBRUARY 2014**

**CLOSING TIME: 10:00**

## 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:** Post; Courier or Hand Deliver  
**CLOSING VENUE:** SEE BELOW FOR CLOSING VENUE

#### 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. Proposals must reach the Secretariat, Acquisition Council before the closing hour on the date shown below, and must be enclosed in a sealed envelope which must have inscribed on the outside:

**RFQ No:** RME CPT 039/2014

**Description:** SUPPLY AND DELIVERY OF OHTE PULLEY 3

**Closing date and time:** 27 FEBRUARY 2014 AT 10H00 Sharp

**Closing address** *[Refer to options in Delivery Instructions for RFQ below]*

All envelopes must reflect the return address of the Respondent on the reverse side.

#### 1 DELIVERY INSTRUCTIONS FOR RFQ

##### 1.1 Delivery by hand

If delivered by hand, the envelope is to be deposited in the Transnet Freight Rail (RME) Tender box which is located at the main entrance of Transnet Park, Robert Sobukwe Road, Bellville, and should be addressed as follows:

THE SECRETARIAT  
ACQUISITION COUNCIL  
TRANSNET PARK  
TENDER BOX 2  
ROBERT SOBUKWE ROAD  
BELLVILLE 7535

The measurements of the "tender slot" are 400mm wide x 100mm high, and Respondents must please ensure that response documents or files are no larger than the above dimensions. Responses which are too bulky [i.e. more than 100mm thick] must be split into two or more files, and placed in separate envelopes, each such envelope to be addressed as above.

##### 1.2 Dispatch by courier

If dispatched by courier, the envelope must be addressed as follows and delivered to the Office of The Secretariat, Acquisition Council and a signature obtained from that Office:

THE SECRETARIAT  
TRANSNET ACQUISITION COUNCIL

6TH FLOOR  
TRANSNET PARK  
ROBERT SOBUKWE ROAD  
BELLVILLE 7535

Please note that this RFQ closes punctually at **10:00 on Thursday 27 February 2014.**

1. If responses are not delivered as stipulated herein, such responses will not be considered and will be treated as "NON-RESPONSIVE" and will be disqualified.
2. No email or facsimile responses will be considered, unless otherwise stated herein.
3. The responses to this RFQ will be opened as soon as practicable after the expiry of the time advertised for receiving them.
4. Transnet shall not, at the opening of responses, disclose to any other company any confidential details pertaining to the Proposals / information received, i.e. pricing, delivery, etc. The names and locations of the Respondents will be divulged to other Respondents upon request.
5. Envelopes must not contain documents relating to any RFQ other than that shown on the envelope.

## **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 systems are applicable to all bids:

- the 80/20 system for requirements with a Rand value of up to R1 000 000 (all applicable taxes included); and
- the 90/10 system for requirements with a Rand value above R1 000 000 (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. Similarly, if the 90/10 preference point system is stipulated in this RFQ and all Bids received are equal to or below R1 000 000.00, the RFQ must be cancelled.

The value of this bid is estimated to exceed R1 000 000.00 and therefore the **90/10** 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.

**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**

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.

A Respondent may, however, before the closing date and time, direct any written enquiries relating to the RFQ to the following Transnet employee:

Name: Jeff Niemand      Email: jeff.niemand@transnet.net  
Telephone: 083 455 6385

Respondents may also, at any time before or after the closing date of the RFQ, communicate with the following Transnet Employee on any administrative matters relating to its RFQ response:

Telephone: 021 940 1840      Email: thabisile.ndlovu@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.

### **5 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.

**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 shortlisted 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**

Transnet's Integrity Pact requires a commitment from suppliers and Transnet 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 Transnet's Gift Policy as well as the remedies available to Transnet 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](http://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:

<b>YES</b>	
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<b>NO</b>	
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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:

Criterion/Criteria	Explanation
<b>Administrative responsiveness</b>	Completeness of response and returnable documents
<b>Substantive responsiveness</b>	Prequalification criteria, if any, must be met and whether the Bid materially complies with the specification given.
<b>Final weighted evaluation based on 90/10 preference point system as indicated in paragraph 2</b>	<ul style="list-style-type: none"> <li>Pricing and price basis [firm] - whilst not the sole factor for consideration, competitive pricing and overall level of unconditional discounts<sup>1</sup> will be critical</li> <li>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 below.</li> </ul>

Preference points will 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 (90/10 system)
1	10
2	9
3	8
4	5
5	4
6	3
7	2
8	1
Non-compliant contributor	0

<sup>1</sup> 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.

**15 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: \_\_\_\_\_

**17 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 ☐

**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 **mandatory Returnable Documents**, as detailed below.

***Failure to provide all these Returnable Documents at the Closing Date and time of this RFQ will result in a Respondent's disqualification. Respondents are therefore urged to ensure that all 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 mandatory Returnable Documents by so indicating [Yes or No] in the table below:

Mandatory Returnable Documents	Submitted [Yes or No]
SECTION 2 : Quotation Form (Delivery lead time must be inserted)	

- b) In addition to the requirements of section (a) above, Respondents are further required to submit with their Quotations the following **essential Returnable Documents** as detailed below.

***Failure to provide all these Returnable Documents may result in a Respondent's disqualification. Respondents are therefore urged to ensure that all 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 essential Returnable Documents by so indicating [Yes or No] in the table below:

Essential Returnable Documents	Submitted [Yes or No]
SECTION 1 : Notice to Bidders	
<ul style="list-style-type: none"> <li>- Valid and original B-BBEE Verification Certificate or certified copy thereof [Large Enterprises and QSEs]</li> </ul> <p>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</p>	
<ul style="list-style-type: none"> <li>- Valid and original B-BBEE certificate/sworn affidavit or certified copy thereof from auditor, accounting officer or SANAS accredited Verification Agency [EMEs]</li> </ul> <p>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</p>	
<ul style="list-style-type: none"> <li>- 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</li> </ul>	
<ul style="list-style-type: none"> <li>- Original valid Tax Clearance Certificate [Consortia / Joint Ventures must submit a separate Tax Clearance Certificate for each party]</li> </ul>	
<ul style="list-style-type: none"> <li>- SECTION 3 : Standard Terms and Conditions of Contract for the Supply of Goods or Services to Transnet</li> </ul>	
SECTION 4 : Vendor Application Form	
<ul style="list-style-type: none"> <li>- Original cancelled cheque or bank verification of banking details</li> </ul>	
<ul style="list-style-type: none"> <li>- Certified copies of IDs of shareholder/directors/members [as applicable]</li> </ul>	
<ul style="list-style-type: none"> <li>- Certified copies of the relevant company registration documents from Companies and Intellectual Property Commission (CIPC)</li> </ul>	
<ul style="list-style-type: none"> <li>- Certified copies of the company's shareholding/director's portfolio</li> </ul>	
<ul style="list-style-type: none"> <li>- Entity's letterhead</li> </ul>	
<ul style="list-style-type: none"> <li>- Certified copy of VAT Registration Certificate [RSA entities only]</li> </ul>	
<ul style="list-style-type: none"> <li>- Certified copy of valid Company Registration Certificate [if applicable]</li> </ul>	
<ul style="list-style-type: none"> <li>- A signed letter from Respondent's auditor or accountant confirming most recent annual turnover figures</li> </ul>	
<ul style="list-style-type: none"> <li>- Financial Statements signed by your Accounting Officer or Audited Financial Statements for previous 3 years</li> </ul>	



## Section 2

### QUOTATION FORM

I/We \_\_\_\_\_  
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 [Section 3 hereof]; 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.

### Price Schedule

I/We quote as follows for the OHTE Pulley 3 as required, at Bellville Square Stores, Cape Town on an "as and when" required basis for a period of three months, excluding VAT:

Item No	Description of Goods /Services	Unit of Measure	Quantity	Unit Price (ZAR)	Total Price (ZAR)
1	OHTE PULLEY 3:1 MECHANICAL RATIO TO DRAWING TMF - 523 (ATTACHED) WITH SEALED BEARINGS TFR APPROVED  DRAWINGS TO BE INSPECTED BY WILLIE SCHOEMAN BEFORE DISPATCH AND DELIVERED  <b>REFER TO ATTACHED SPECIFICATION AND DRAWINGS</b>	EACH	100		

**Delivery Lead-Time from date of purchase order:** \_\_\_\_\_ [days/weeks]

#### 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.

Respondent's Signature

Date & Company Stamp

- 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.

"PREVIEW COPY ONLY"

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Respondent's Signature

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Date & Company Stamp

### Section 3

#### STANDARD TERMS AND CONDITIONS FOR THE SUPPLY OF GOODS OR SERVICES TO TRANSNET

**A Supplier/Service Provider shall be obliged to adhere to the Standard Terms and Conditions for the Supply of Goods and Services to Transnet as expressed hereunder. Should the Respondent find any condition(s) unacceptable, it should indicate which condition(s) is/are unacceptable and offer an alternative(s). A Quotation submitted by a Respondent will be subjected to review and acceptance or rejection of its proposed contractual terms and conditions by Transnet's Legal Counsel, prior to consideration for an award of business.**

#### 1 SOLE AGREEMENT

Unless otherwise agreed in writing, these terms [Terms and each Term] and Transnet's purchase order(s) [Order or Orders] represent the only conditions upon which Transnet SOC Ltd [Transnet] procures goods [the Goods] or services [the Services] specified in the Order from the person to whom the Order is addressed [the Supplier/Service Provider]. Transnet does not accept any other conditions which the Supplier/Service Provider may specify, unless otherwise agreed to by Transnet in writing. In the event of any inconsistency between these Terms and any Order, these Terms shall take precedence.

#### 2 CONFORMITY WITH ORDER

Goods/Services shall conform strictly with the Order. The Supplier/Service Provider shall not vary the quantities specified and/or the specification, if any, stipulated in the Order, without the prior written consent of Transnet. The Supplier/Service Provider warrants that the Goods/Services shall be fit for their purpose and of satisfactory quality.

#### 3 DELIVERY AND TITLE

- 3.1 The delivery dates and addresses are those in the Order. Time shall be of the essence in respect of the Supplier's/Service Provider's obligations under the Order.
- 3.2 The Supplier/Service Provider will not be excused for delay in delivery or performance except due to circumstances outside its control and then only subject to the Supplier/Service Provider having notified Transnet in writing on becoming aware of such circumstances. Transnet may terminate an Order, in whole or in part, without incurring any liability to the Supplier/Service Provider if such a delay becomes, in Transnet's absolute opinion, significant.
- 3.3 Risk of loss or damage to Goods shall pass to Transnet on delivery, and title shall pass to Transnet when payment to the Supplier for the Goods has been effected.
- 3.4 If on delivery, the Goods/Services do not conform to the Order, Transnet may reject the Goods/Services and the Supplier/Service Provider shall promptly rectify any defects or in Transnet's opinion, supply appropriate replacement Goods/Services at the Supplier's/Service Provider's expense within the specified delivery times, without any liability due by Transnet. Goods shall be subject to such testing and/or inspection as Transnet may consider necessary.

#### 4 PRICE AND PAYMENT

- 4.1 Prices specified in an Order cannot be increased. Payment for the Goods/Services shall be made by Transnet against an original undisputed invoice(s) [a Tax Invoice], supporting documentation and month-end statement from the Supplier/Service Provider. Tax Invoices plus supporting documentation shall be posted to the address shown in the Order.
- 4.2 Payment of the Supplier's/Service Provider's valid Tax Invoice(s) will be made by Transnet in the South African currency and on the terms stated in the Order, the standard payment terms being 30 [thirty] days from date of receipt by Transnet of a month-end statement, unless otherwise agreed to in writing. Transnet shall arrange for payment of such Tax Invoices and any pre-authorised additional expenses incurred, provided that the authorised expenses are supported by acceptable documentary proof of expenditure incurred [where this is available]. Any amounts due in terms of these Terms shall be paid to the Supplier/Service Provider, taking into account any deduction or set-off and bank charges.

#### 5 PROPRIETARY RIGHTS LIABILITY

If any allegations should be made or any claim asserted against Transnet that ownership of, or any act or omission by Transnet in relation to Goods/Services or any written material provided to Transnet relating to any Goods/Services or pursuant to an Order being a violation or infringement of any third party's contractual, industrial, commercial or intellectual property rights including but not limited to any patent, registered design, design right, trade mark, copyright or service mark on any application thereof, the Supplier/Service Provider hereby indemnifies Transnet against and hold it harmless from any and all losses, liabilities, costs, claims, damages and expenses [including any legal fees] arising directly or indirectly from such allegation or claim provided that this indemnity shall not apply where the allegation or claim arises solely as a result of the Supplier/Service Provider following a design or process originated and furnished by Transnet. The Supplier/Service Provider shall either

- a) procure for Transnet the right to continue using the infringing Goods; or
- b) modify or replace the Goods/Services so that they become non-infringing,

provided that in both cases the Goods/Services shall continue to meet Transnet's requirements and any specifications stipulated in the Order. Should neither option be possible, the Supplier/Service Provider may remove, with Transnet's prior written consent, such Goods/Services and will pay to Transnet a sum equivalent to the purchase price. If Transnet refuses to give such consent, the Supplier/Service Provider shall have no liability in respect of any continued use of the infringing Goods/Services after Supplier's/Service Provider's prior written request to remove the same.

#### 6 PROPRIETARY INFORMATION

All information which Transnet has divulged or may divulge to the Supplier/Service Provider and any information relating to Transnet's business which may have come into the Supplier's/Service Provider's possession whilst carrying out an Order, and the existence of the Order, shall be treated by the Supplier/Service Provider as confidential information and shall not, without Transnet's prior written consent, be disclosed to any third party, or be used or copied for any purposes other than to perform the Order. This clause does not apply to information which is public knowledge or available from other sources other than by breach of this Term. Upon request by Transnet, the Supplier/Service Provider shall return all

materials issued pursuant to the Order and, pending this, shall protect Transnet's rights in any such materials. Such confidential information shall at all material times be the property of Transnet.

## **7 DEVELOPMENT WORK IN THE PRODUCTION OF GOODS**

If the production or provision of any Goods involves research and/or development which are wholly or partly funded by Transnet, then all intellectual property or other rights as a result thereof shall be the property of Transnet on creation.

## **8 PUBLICITY**

The Supplier/Service Provider shall not name Transnet or use its trademarks, service marks [whether registered or not] or Goods in connection with any publicity without Transnet's prior written consent.

## **9 AFTER SALES SERVICE**

The Supplier shall provide replacement parts necessary to ensure the uninterrupted operation of the Goods supplied for the duration of the warranty period, from delivery of any particular item of the Goods and if requested by Transnet shall make these parts available to a third party maintainer of Transnet's choice at the same price as if the parts had been supplied to Transnet. The Supplier undertakes to provide a maintenance service for Goods, should Transnet so request, on terms to be agreed. If the Order so indicates, the Supplier will provide a warranty service for the Goods at a level to be agreed with Transnet.

## **10 TERMINATION OF ORDER**

- 10.1 Transnet may cancel an Order in whole or in part at any time upon at least 7 [seven] days' written notice to the Supplier/Service Provider, or when there is a change in control of the Supplier/Service Provider or the Supplier/Service Provider commits any serious breach or any repeated or continued material breach of its obligations under these Terms and/or Order or shall have been guilty of conduct tending to bring itself into disrepute, on written notice to the Supplier/Service Provider when such work on the Order shall stop.
- 10.2 Transnet shall pay the Supplier/Service Provider a fair and reasonable price for justified work in progress, where such price reflects only those costs not otherwise recoverable by the Supplier/Service Provider, at the time of termination, and the Supplier/Service Provider shall give Transnet full assistance to check the extent of such work in progress. Payment of such price shall be in full and final satisfaction of any claims arising out of such termination and upon such payment the Supplier/Service Provider shall deliver to Transnet all work, including any materials, completed or in progress. The sum payable to the Supplier/Service Provider under this clause will not in any event exceed the total amount that would have been payable to the Supplier/Service Provider had the Order not been terminated.
- 10.3 In the event of termination the Supplier/Service Provider must submit all claims within 2 [two] months of termination after which time claims will only be met in what Transnet considers exceptional circumstances.
- 10.4 If the Goods or Services are not provided in accordance with an Order, the Order shall be deemed terminated and the Supplier/Service Provider shall compensate Transnet for any costs incurred in obtaining substitute Goods or any damage caused due to the failure or delay in the delivery.

**11 ACCESS**

The Supplier/Service Provider shall be liable for the acts, omissions and defaults of its personnel or agents who, for the purposes of the Order, shall be treated as if they are the Supplier's/Service Provider's employees. The Supplier/Service Provider shall ensure that any such personnel or agents, whilst on Transnet's premises, shall comply with Transnet's health and safety, security and system security rules and procedures as and where required.

**12 WARRANTY**

The Supplier/Service Provider warrants that it is competent to supply the Goods/Services in accordance with these Terms to the reasonable satisfaction of Transnet and that all Goods/Services delivered under the Order: (a) conform and comply in all relevant legislation, standards, directives and orders related to *[inter alia]* the supply, manufacture and use of the Goods/Services in force at the time of delivery, and to any specifications referred to in the Order; (b) will not cause any deterioration in the functionality of any Transnet equipment; and (c) do not infringe any third party rights of any kind. The Supplier/Service Provider hereby indemnifies Transnet against all losses, liabilities, costs, claims, damages, expenses and awards of any kinds incurred or made against Transnet in connection with any breach of this warranty.

**13 INSOLVENCY**

If the Supplier/Service Provider shall have a receiver, manager, administrator, liquidator or like person appointed over all or any part of its assets or if the Supplier/Service Provider compounds with its creditors or passes a resolution for the winding up or administration of the Supplier/Service Provider, Transnet is at liberty to terminate the Order or Orders forthwith, or at its option, to seek performance by any such appointed person.

**14 ASSIGNMENT**

The Supplier/Service Provider shall not assign its obligations under an Order without Transnet's prior written consent, which consent shall not be unreasonably withheld or delayed.

**15 NOTICES**

Notices under these Terms shall be delivered by hand to the relevant addresses of the parties in the Order or may be served by facsimile or by email, in which event notice shall be deemed served on acknowledgement of receipt by the recipient.

**16 LAW**

Orders shall be governed by and interpreted in accordance with South African law and any disputes arising herein shall be subject to South African arbitration under the rules of the Arbitration Foundation of South Africa, which rules are deemed incorporated by reference in this clause. The reference to arbitration shall not prevent Transnet referring the matter to any South African courts, having jurisdiction, to which the Supplier/Service Provider hereby irrevocably submits but without prejudice to Transnet's right to take proceedings against the Supplier/Service Provider in other jurisdictions and/or obtaining interim relief on an urgent basis from a court of competent jurisdiction pending the decision in other courts or from instituting in any court of competent jurisdiction any proceedings for an interdict or any other injunctive relief. If the Supplier/Service Provider does not have a registered office in the South Africa it will at all times maintain

an agent for service of process in South Africa and shall give Transnet the name and address of such agent as such may be amended, in writing, from time to time.

#### **17 GENERAL**

Completion or termination of an Order shall be without prejudice to any Term herein which by its nature would be deemed to continue after completion or termination, including but not limited to clauses **Error! Reference source not found., Error! Reference source not found., Error! Reference source not found., Error! Reference source not found.** and **Error! Reference source not found.** Headings are included herein for convenience only. If any Term herein be held illegal or unenforceable, the validity or enforceability of the remaining Terms shall not be affected. No failure or delay by Transnet to enforce any rights under these Terms will operate as a waiver thereof by Transnet. All rights and remedies available to either party under these Terms shall be in addition to, not to the exclusion of, rights otherwise available at law.

#### **18 COUNTERPARTS**

These Terms and conditions may be signed in any number of counterparts, all of which taken together shall constitute one and the same instrument. Any party may enter into this agreement by signing any such counterpart.

"PREVIEW COPY ONLY"



By signing this RFQ document, the Respondent is deemed to acknowledge that he/she has made himself/herself thoroughly familiar with all the conditions governing this RFQ, including those contained in any printed form stated to form part hereof and Transnet SOC Ltd will recognise no claim for relief based on an allegation that the Respondent overlooked any such condition or failed to properly take it into account for the purpose of calculating quoted prices or otherwise.

SIGNED at \_\_\_\_\_ on this \_\_\_\_\_ day of \_\_\_\_\_ 2014

.....  
SIGNATURE OF RESPONDENT'S AUTHORISED REPRESENTATIVE

NAME: \_\_\_\_\_

DESIGNATION: \_\_\_\_\_

REGISTERED NAME OF COMPANY: \_\_\_\_\_

PHYSICAL ADDRESS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Respondent's contact person:** *[Please complete]*

Name	:
Designation	:
Telephone	:
Cell Phone	:
Facsimile	:
Email	:
Website	:

**Transnet urges its clients, suppliers and the general public  
to report any fraud or corruption to  
TIP-OFFS ANONYMOUS : 0800 003 056**

\_\_\_\_\_  
Respondent's Signature

\_\_\_\_\_  
Date & Company Stamp

## Section 4

### VENDOR APPLICATION FORM

*Respondents are to furnish the following documentation and complete the Vendor Application Form below:*

1. **Original** cancelled cheque **OR** letter from the Respondent's bank verifying banking details **[with bank stamp]**
2. **Certified** copy of Identity Document(s) of Shareholders/Directors/Members [where applicable]
3. **Certified copies** of the relevant company registration documents from Companies and Intellectual Property Commission (CIPC)
4. **Certified copies** of the company's shareholding/director's portfolio
5. A letter on the company's letterhead confirm physical and postal addresses
6. **Original** valid SARS Tax Clearance Certificate
7. **Certified copy** of VAT Registration Certificate
8. **A valid and original** B-BBEE Verification Certificate / sworn affidavit **or certified copy** thereof meeting the requirements for B-BBEE compliance as per the B-BBEE Codes of Good Practice
9. **Certified copy** of valid Company Registration Certificate [if applicable]

### Vendor Application Form

Company trading name						
Company registered name						
Company Registration Number or ID Number if a Sole Proprietor						
Form of entity [✓]	CC	Trust	Pty Ltd	Limited	Partnership	Sole Proprietor
VAT number [if registered]						
Company telephone number						
Company fax number						
Company email address						
Company website address						
Bank name			Branch & Branch code			
Account holder			Bank account number			
Postal address						

Respondent's Signature

Date & Company Stamp

		Code	
Physical Address		Code	
Contact person			
Designation			
Telephone			
Email			
Annual turnover range [last financial year]	< R5 m	R5 - 35 m	> R35 m
Does your company provide	Products	Services	Both
Area of delivery	National	Provincial	Local
Is your company a public or private entity	Public	Private	
Does your company have a Tax Directive or IRP30 Certificate	Yes	No	
Main product or services [e.g. Stationery/Consulting]			

*Complete B-BBEE Ownership Details:*

% Black ownership	% Black women ownership	% Disabled Black ownership	% Youth ownership
Does your entity have a B-BBEE certificate		Yes	No
What is your B-BBEE status [Level 1 to 9 / Unknown]			
How many personnel does the entity employ		Permanent	Part time

*If you are an existing Vendor with Transnet please complete the following:*

Transnet contact person
Contact number
Transnet Operating Division

*Duly authorised to sign for and on behalf of Company / Organisation:*

Name		Designation	
Signature		Date	

SOUTH AFRICAN TRANSPORT SERVICES  
ELECTRICAL ENGINEERING

SPECIFICATION NO. CEE.0131.85/1

\*\*\*\*\*  
\* THIS ISSUE CANCELS ISSUE \*  
\* CEE.0131.85 \*  
\*\*\*\*\*

Specification for weight tensioning device for tensioning overhead track  
equipment conductors.

"PREVIEW COPY ONLY"

I N D E X

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SPECIFICATION NO. CEE.0131.85/1

1.0 SCOPE

- 1.1 This specification covers the supply of weight tensioning devices for the automatic tensioning of contact and/or catenary wires for 3.3 kV DC and 25 kV AC overhead track equipment.

2.0 COMPLIANCE

- 2.1 Tenderers shall submit their main offers in terms of this specification and to drawings No. CEE-TV-262 and CEE-TMF-523. Deviations which are of a minor nature, and do not depart materially from this specification will be considered at the discretion of the South African Transport Services.
- 2.2 Tenderers shall indicate, clause by clause, either that their offers comply in every respect with this specification or, if not, precisely how they differ. A broad statement to the effect that the equipment is in accordance with this specification is not acceptable.
- 2.3 Failure to comply with the above may preclude a tender from consideration.

3.0 GENERAL INFORMATION

- 3.1 The device will be used in conjunction with 25 kV AC and 3.3 kV DC overhead track equipment and will thus be mounted out-of-doors in atmospheric conditions which may be highly corrosive.
- 3.1.1 The contact wire will normally be supported from the catenary by droppers and in general may be 6,25 m maximum above rail level at tensioning points but in some instances may be only 4,8 m above rail level. The tensioning device shall be accommodated within these heights.

Complies/Does not comply

Complies/Does not comply

4/.....

4.0 SERVICE CONDITIONS

4.1 The service climatic conditions are as follows :-

Altitude : 0 - 1 800 m above sea level

Relative humidity : up to 86 %

Ambient temperature range : -10 °C to 40 °C

Operating temperature of overhead wires in Catenary system : up to 80 °C

Wind pressure on equivalent projected area normal to direction of wind : 750 Pa

Lightning conditions : Severe, flash density 11/km<sup>2</sup>/year

Pollution : Normal unless otherwise specified in particular locations. However, steam and diesel electric locomotives will operate under the equipment.

Complies/Does not comply

5.0 DRAWINGS AND INSTRUCTIONS

5.1 Tenderers shall submit full details in the form of drawings, sketches or fully descriptive pamphlets and photographs showing exactly what they propose to supply.

The documentation shall clearly explain the use of the equipment offered and any limitations in its usage or any special arrangements required during installation shall be detailed in full. Photocopies of original documentation shall be clearly legible.

Complies/Does not comply

5.2 The successful Tenderer shall supply to the South African Transport Services on or before the completion of the contract a set of fully detailed working drawings in suitable black ink on transparent linen based material of 0,04 mm minimum thickness polyester drafting film depicting the approved design of the weight tensioning device accepted.

Complies/Does not comply

5/.....



- 5.2.1 These drawings shall comply fully with the requirements of SABS 0111 and/or BS 308. Complies/Does not comply
- 5.2.2 Drawings shall be prepared employing the Systeme International (SI) system of units on ISO, A series size and bearing in mind that microfilms produced from these drawings shall be perfectly clear and legible. Complies/Does not comply
- 5.3 The ownership of and copyright in all plans etc. compiled by contractors.
- 5.3.1 The Contractor hereby grants to the Transport Services a non-exclusive licence, in accordance with the provisions of section 22 of the Copyright Act, 1978, (a) to copy any plan, diagram, specification, bill of quantities, design calculation or other similar document made, other than under the direction or control of the Transport Services, by the Contractor in connection with the WORKS, (b) to make free and unrestricted use thereof for its own purposes, (c) to provide copies thereof to consultants of the Transport Services to be used by them for the purpose of the consultancy and (d) to provide other parties with copies thereof for the purpose of tenders invited by it. The Contractor, furthermore, if any plan, diagram, drawing, specification, bill of quantities, design calculation or other similar document made, other than under the direction or control of the Transport Services, by any principal or subcontractor of the Contractor, is used in connection with the WORKS, shall cause such principal or subcontractor to grant to the Transport Services a similar non-exclusive licence for the purposes set out herein. The provisions of this clause shall not apply to documents made, in the case of equipment to be supplied, in connection with the manufacturing process of the equipment supplied but only to the equipment supplied itself. No separate or extra payment shall be due by the Transport Services in respect of any non-exclusive licence granted in terms of this clause. Complies/Does not comply

6.0 TECHNICAL REQUIREMENTS

- 6.1 Designs for steelwork and linework requirements shall be based on the following criteria :-

Factor of safety (ultimate stress/working stress) for :

Iron or steel : 2,5

Steel cables : 2,5

Equivalent area for wind pressure on

(a) round steel-work and conductors : 0,6 of projected area

(b) lattice structures : 1,5 of projected area

Complies/Does not comply

- 6.2 The tensioning device shall be of the wheel and barrel type and shall incorporate a device to prevent excessive drop of the weights and/or undue stress on the remaining conductor in the event of a broken conductor. The bearings of the tensioning device pulleys shall be designed to avoid sticking and give quick response to changes in conductor length. To this end roller bearings completely sealed against the ingress of water or dust are required.

Tenderers however shall comment on this aspect and may offer alternatives to suit their particular design. The maximum contact wire length from anchor to the mid-point contact wire anchor location shall be 900 metres. (See schedule of requirements). Full details of the tensioning device, including the weights required and recommended mounting and guide arrangements shall be supplied by the Tenderer. A mechanical advantage of 3:1 is required.

Complies/Does not comply

- 6.3 The flexible wire ropes which are attached to the weights and to a standard tension insulator fitting shall be fully detailed in the tender and shall include the measures taken to afford protection against fatigue and corrosion. Special attention shall be given to the prevention of attack by atmospheric corrosion. The wire rope shall be supplied to their correct lengths and complete with all fittings made off for attachment to the weights and up to and including the equalising pulley for attachment of the catenary and contact wire yoke plate, by others.

Complies/Does not comply

7/.....

- 6.4 The fittings used with the weight tensioning device shall be capable of carrying the full short circuit current of 6 000 amps AC and 30 000 amps DC for 50 milliseconds. Suitable arrangements for bonding the device to the anchor mast shall be provided. Tenderers shall submit their proposals in this respect taking the wire movement between barrel and the yoke plate into account.
- Complies/Does not comply
- 6.5 All metal components shall be non-ferrous or, if of ferrous material, be hotdip galvanised to specification SABS 763 or equivalent national specification.
- Complies/Does not comply
- 6.6 The tensioning device shall be capable of tensioning the contact wire and catenary together via a yoke plate suitably drilled to give the tensions specified in the Schedule of Requirements. The maximum combined working tension of the contact and catenary wire will not be greater than 34 kN. The yoke plate will be supplied by others.
- Complies/Does not comply
- 6.7 Suitable brackets shall be detailed or provided as specified in the Schedule of Requirements for attaching the device to 216 x 206 x 71,5 kg/m universal column masts.
- Such brackets shall be designed so that they do not slip when mounted on the above-quoted masts. Masts are erected with flanges parallel to track.
- Complies/Does not comply
- 6.8 A suitable swivel shall be provided to allow the wires to be anchored at various angles to the mast and arrangements shall be made to prevent twisting. The maximum deviation angle shall be stated by the tenderer.
- Complies/Does not comply
- 6.9 Tenderers shall give full details of the dimensions and weights in concrete or cast iron, to be used in conjunction with the combinations of catenary and contact wire specified to enable weights to be supplied by the South African Transport Services. Where specified in the Schedule of Requirements the Tenderer shall provide suitable weights.
- Complies/Does not comply

6.10 The tenderer shall give details of any maintenance and lubrication requirements, for pulleys, guides, flexible wire rope and full details of the make up of the flexible wire rope.

Complies/Does not comply

7.0 ANNEXURES

7.1 Annexures Nos. 1 and 2 give the fixed structure gauge. Tenderers shall confirm that the weights shall not foul the structure gauge when the tensioning mast is situated between tracks at 5,5 m centres and the anchoring wires make an angle of  $8^{\circ}$  with the track.

Complies/Does not comply

8.0 INSPECTION AND TESTING

8.1 The material to be supplied will be subject to the conditions laid down in the form US7 clauses 25 and 26 forming part of the tender documents and the successful tenderer will be advised of requirements.

Complies/Does not comply

9.0 PACKING

The equipment shall be suitably packed and protected to ensure safe transit to final destination. Packaging must be done in a suitable protective manner to ensure that any claims which might be preferred by the consignee against the carriers will not be exposed to repudiation on the grounds that the equipment was inadequately packed.

Complies/Does not comply

CHIEF ELECTRICAL ENGINEER  
JOHANNESBURG

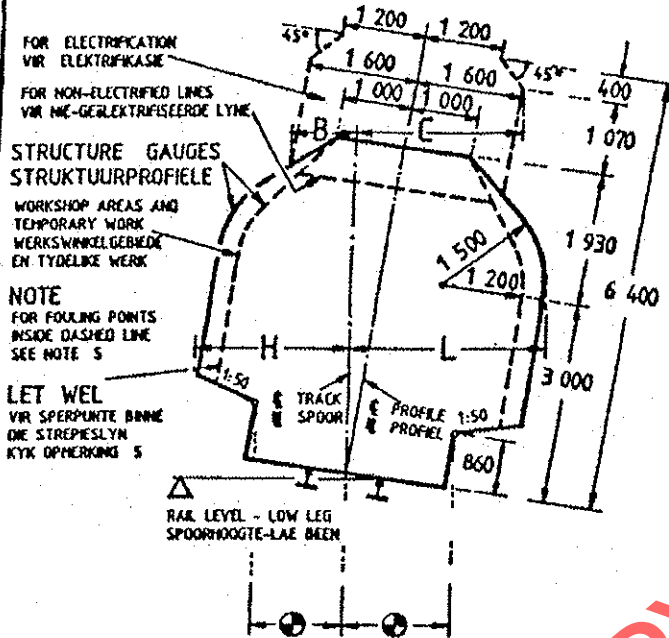
ANNEXURE 3

SPECIFICATION NO. CEE.0131,85/1

SCHEDULE OF REQUIREMENTS

- 1.0 Number of tensioning devices required complete with flexible steel ropes complete for :-
- 107 mm<sup>2</sup> contact 80 mm<sup>2</sup> catenary .....
- 161 mm<sup>2</sup> contact 80 mm<sup>2</sup> catenary .....
- 161 mm<sup>2</sup> contact 100 mm<sup>2</sup> catenary .....
- 161 mm<sup>2</sup> contact 160 mm<sup>2</sup> catenary .....
- 161 mm<sup>2</sup> contact wire only .....
- 2.0 No. of attachment brackets with drawing details for 216 mm x 206 mm x 71,5 kg/m mast : .....
- 3.0 No. of weight tensioning guide rods required .....
- 4.0 No. of yoke plates required :- .....
- Catenary tension ..... kN
- Contact wire tension ..... kN
- 5.0 Weights required Yes/No .....
- Drawings of weights required Yes/No .....
- 6.0 Contact wire length from weight tensioning anchor to mid point anchor .....
- 7.0 Yoke plate straining holes for contact and catenary to be at ..... mm centres, to suit tensions stipulated.

# HORIZONTAL CLEARANCES HORIZONTAL VRY RUIMTES

 TRACK GAUGE  
SPOORWYDTE 1 065 mm


RADIUS m	B mm	C mm
90	1 130	2 100
300	1 250	1 900
600	1 340	1 830
1 000	1 380	1 760
2 000	1 440	1 660
3 000	1 500	1 600
5 000 AND OVER INCLUDING STRAIGHTS	1 600	1 600

STRAAL m	H mm	WITH CANT L mm	NO CANT H & L
90	2 730	3 090	2 780
100	2 700	3 030	2 750
120	2 650	2 970	2 700
140	2 620	2 920	2 660
170	2 590	2 870	2 630
200	2 570	2 820	2 600
250	2 550	2 790	2 580
300	2 540	2 760	2 560
350	2 530	2 730	2 540
400	2 520	2 710	2 530
500	2 510	2 680	2 520
600	2 500	2 660	2 510
800	2 490	2 620	2 500
1 000	2 480	2 600	2 490
1 200	2 480	2 580	2 490
1 500	2 480	2 550	2 480
2 000	2 480	2 500	2 480
3 000	2 470	2 470	2 470
5 000 EN OOR, REGAT GEDELTES INGESLUIT	2 460	2 460	2 460

## 1 USE OF TABLES

- 1.1 H IS THE REQUIRED HORIZONTAL CLEARANCE ON THE OUTSIDE OF THE CURVE BASED ON MINIMUM CANT.
- 1.2 L IS THE REQUIRED HORIZONTAL CLEARANCE ON THE INSIDE OF THE CURVE BASED ON MAXIMUM CANT.
- 1.3 FOR CURVE RADII NOT SHOWN IN TABLES USE CLEARANCES FOR NEXT SMALLER RADIUS EXCEPT IN THE CASE OF B WHERE NEXT LARGER RADIUS APPLIES.
- 1.4 THE DISTRICT ENGINEER MAY INTERPOLATE WHEN NECESSARY.
- 1.5 FOR WORKSHOP AREAS AND TEMPORARY WORK CLEARANCES H AND L MAY BE REDUCED BY 300 mm.

## 2 APPLICATION AT CURVES

APPLY INCREASED CLEARANCES FOR CURVES TO POINTS 2 m BEYOND THE ENDS OF THE CIRCULAR CURVE.  
REDUCE CLEARANCES AT A UNIFORM RATE OVER THE REMAINDER OF THE TRANSITION CURVE.  
FOR NON-TRANSITIONED CURVES REDUCE AT A UNIFORM RATE OVER A LENGTH OF 10 m ALONG STRAIGHTS.  
ALWAYS REFER TO DISTRICT ENGINEER FOR DETAILS.

## 3 NEW STRUCTURES

SEE BRIDGE CODE

## 4 TUNNELS

SEE DRAWING BE 82-35

## 5 FOULING POINTS

SEE CLAUSE 9015 OF PERMANENT WAY INSTRUCTIONS

ALLOWANCE FOR CURVATURE IS BASED ON 15 000 mm BOGIE CENTRES AND 21 200 mm VEHICLE BODY LENGTH

## 1 GEBRUIK VAN TABELLE

- 1.1 H IS DIE VEREISTE HORIZONTAL VRY RUIMTE AAN DIE BUITEKANT VAN DIE DRAAI GEBASEER OP MINIMUM KANTING.
- 1.2 L IS DIE VEREISTE HORIZONTAL VRY RUIMTE AAN DIE BINNEKANT VAN DIE DRAAI GEBASEER OP MAXIMUM KANTING.
- 1.3 VIR DRAAIE MET STRALE NIE IN TABELLE AANGETOON NIE GEBRUIK VRY RUIMTE VIR VOLGENDE KLEINER STRAAL BEHALWE IN DIE GEVAL VAN B WAAR DIE VOLGENDE GROTER STRAAL VAN TOEPASSING IS.
- 1.4 DIE OORWAGINGSINGENIEUR MAG INTERPOLEER WANNEER NODIG.
- 1.5 VIR WERKSWINKELGEBIED EN TYDELIKE WERK MAG VRY RUIMTES H EN L MET 300 mm VERMINDER WORD.

## 2 TOEPASSING BY DRAAIE

PAS VERGROTE VRY RUIMTES TOE TOT 2 m VERBY DIE ENDE VAN DIE SIKELVORMIGE DRAAI.  
VERMINDER VRY RUIMTES EWEREND OOR DIE RES VAN DIE OORGANGSDRAAI.  
BY DRAAI SONDER OORGANGSDRAAI VERMINDER EWEREND OOR 'N 10 m LENGTE VAN DIE REGAT GEDELTES.  
VERWYS ALTYD NA OORWAGINGSINGENIEUR VIR DETALS.

## 3 NUWE STRUKTURE

KYK BRUGKODE

## 4 TONNELS

KYK TEKENING BE 82-35

## 5 SPERPUNTE

KYK KLOUSULE 9015 VAN SPOORBAANINSTRUKSIES

TOELATING VIR KROMMING IS GEBASEER OP 'N DRAAISTELHARTAFSTAND VAN 15 000 mm EN 'N VOERTUIGSKARLENGTE VAN 21 200 mm

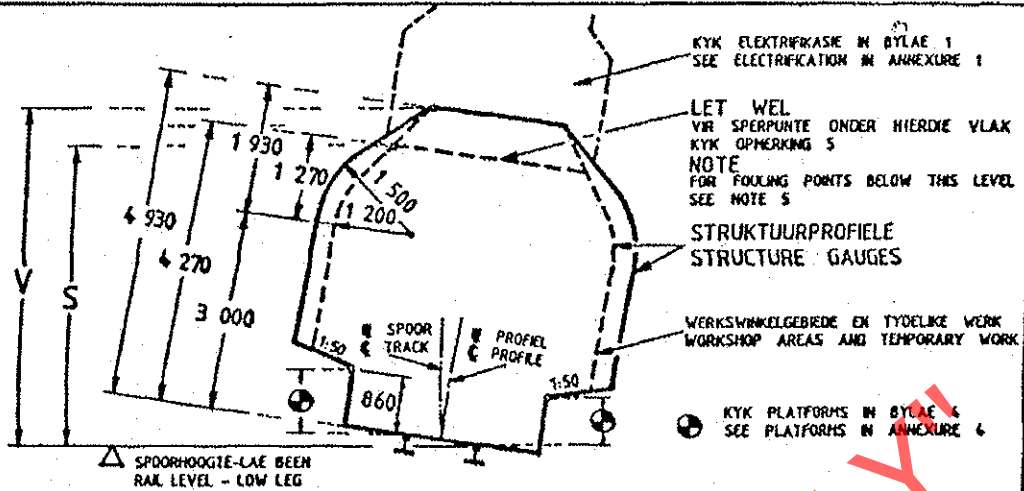
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ARENO/VTSG  
BE 82-11



# VERTIKALE VRY RUIMTES VERTICAL CLEARANCES

SPOORWYDTE  
TRACK GAUGE

1 065 mm



LIGGING	STRAAL m	ME GELETRIFISEER ME KYK OPMERKING 121 NOT ELECTRIFIED (SEE NOTE 121)	GELETRIFISEER (HUIDIG OF TOEKOMSTIG) ELECTRIFIED (PRESENT OR FUTURE)		LOCATION RADIUS m
			3 kV & 25 kV	50 kV (SISHEN-SALDANHA)	
ALLE GEBIED BEHALWE HIERONDER DEUR * AANGEDEK	100	4 470	5 050	5 400	100
	300	4 410	5 020	5 370	300
	600	4 370	5 000	5 350	600
	1 000	4 350	4 990	5 340	1 000
	1 500	4 310	4 960	5 310	1 500
	2 000	4 290	4 940	5 290	2 000
	3 000	4 270	4 930	5 280	3 000
	5 000 EN OOR REGAT GEDELTES INGESLUIT	4 270	4 930	5 280	5 000 AND OVER INCLUDING STRAIGHTS
* OOR OF NABY WISSELS EN KRUSINGS WENDE DEUR DIE ELEKTRISIE HOOFINGENIEUR VERLANG, ONGESK STRAAL			5 650	6 000	* OVER OR NEAR POINTS AND CROSSINGS IF REQUIRED BY THE CHIEF ELECTRICAL ENGINEER RESPECTIVE OF RADIUS

## 1 GEBRUIK VAN TABEL

- 1.1 V IS DIE VERODTE VERTIKALE VRY RUIMTE BEHALWE WAAR VERMINDERDE VRY RUIMTE S VAN TOEPASSING IS
- 1.2 S IS DIE MINIMUM VERTIKALE VRY RUIMTE VIR:
- TYDELIKE WERK OOR ME-GELETRIFISEERDE LYNE
  - STRUKTURE OOR ME-GELETRIFISEERDE LYNE
- 1.3 VIR DRAAIE MET STRALE ME IN TABEL AANGEDEK ME GEBRUIK VRY RUIMTE VIR VOLGENDE KLEINER STRAAL DIE DISTRIKTINGENIEUR MAG INTERPOLEER WANNEER NOOIE

## 2 TOEPASSING BY DRAAIE

PAS VERODTE VRY RUIMTES TOE TOT 2 m VERBY DIE ENDE VAN DIE SPORWYDTE DRAAI

VERMINDER VRY RUIMTES EWEREDIG OOR DIE RES VAN DIE OORGANGSDRAAI

BY DRAAIE SONDER OORGANGSDRAAIE VERMINDER EWEREDIG OOR 'N 10 m LENGTE VAN DIE REGAT GEDELTES

VERWYS ALTYD NA DISTRIKTINGENIEUR VIR DETAILS

## 3 NUWE STRUKTURE

KYK BRUGKODE

## 4 TONNELS

KYK TEKENING BE 82-35

## 5 SPERPUNTE

KYK KLOUSULE 9015 VAN SPOORBAANWISSTUKSES

## 1 USE OF TABLE

- 1.1 V IS THE REQUIRED VERTICAL CLEARANCE EXCEPT WHERE REDUCED CLEARANCE S APPLIES
- 1.2 S IS THE MINIMUM VERTICAL CLEARANCE FOR:
- TEMPORARY WORK OVER NON-ELECTRIFIED LINES
  - STRUCTURES OVER NON-ELECTRIFIED LINES
- 1.3 FOR CURVE RADII NOT SHOWN IN TABLE USE CLEARANCE FOR NEXT SMALLER RADIUS
- THE DISTRICT ENGINEER MAY INTERPOLATE WHEN NECESSARY

## 2 APPLICATION AT CURVES

APPLY INCREASED CLEARANCES FOR CURVES TO POINTS 2 m BEYOND THE ENDS OF THE CIRCULAR CURVE

REDUCE CLEARANCES AT A UNIFORM RATE OVER THE REMAINDER OF THE TRANSITION CURVE

FOR NON-TRANSITIONED CURVES REDUCE AT A UNIFORM RATE OVER A LENGTH OF 10 m ALONG STRAIGHTS

ALWAYS REFER TO DISTRICT ENGINEER FOR DETAILS

## 3 NEW STRUCTURES

SEE BRIDGE CODE

## 4 TUNNELS

SEE DRAWING BE 82-35

## 5 FOULING POINTS

SEE CLAUSE 9015 OF PERMANENT WAY INSTRUCTIONS

 BE 82-12  
 LER/FILE 19/11/12/3  
 WYSIG/AMEND



