



**Transnet Freight Rail**, a division of

**TRANSNET SOC LTD**

Registration Number 1990/000900/30

[hereinafter referred to as **Transnet**]

**REQUEST FOR QUOTATION [RFQ] No BLE / 52433**

**FOR VEGETATION CONTROL WITHIN TRANSNET FREIGHT RAIL RIGHT OF WAY  
BETWEEN WORCESTER AND VOORBAAL STATIONS**

**ISSUE UNTIL : 29 September 2013**

**BRIEFING SESSION : 30 September 2013 @ 11:00**

**CLOSING DATE : 8 October 2013**

**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 or Courier  
**CLOSING VENUE:** SEE BELOW FOR CLOSING VENUE

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:** BLE / 52433  
**Description:** VEGETATION CONTROL WORCESTER TO VOORBAAI  
**Closing date and time:** 20 October 2013 AT 10H00 Sharp  
**Closing address:** [Refer to options in Delivery Instructions for RFQ below]

**Non Refundable Deposit**

On or after 20 September 2013, the RFQ documents may be inspected at, and are obtainable from the office of the Secretariat, Transport Park 6<sup>th</sup> Floor Robert Sobukwe Street, Bellville on payment of an amount of R 150,00 [inclusive of VAT] per set. Payment is to be made as follows:

Bank: Standard Bank  
Account Number: 002 0315 8598  
Branch: Braamfontein  
Branch code: 004805  
Account Name: Transnet Freight Rail  
Reference: BLE / 52433

**NOTES –**

This amount is not refundable.

A receipt for such payment made must be presented when collecting the RFQ documents and submitted thereafter with your Proposal.

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

Respondent's Signature

Date & Company Stamp

**A. DELIVERY INSTRUCTIONS FOR RFQ****1.1 Delivery by hand**

If delivered by hand, the envelope is to be deposited in the Transnet 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  
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

**1.3 Please note that this RFP closes punctually at 10:00 on 8 October 2013.**

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.

**B. FORMAL BRIEFING**

- i. A compulsory RFQ briefing will be conducted at Transnet Freight Rail, Infrastructure Department, the Danie Barnard Hall, Caledon West street, Bellville on the **30 September 2013** at **11:00** for a period of 1 hour .

- ii. **Respondents failing to attend the compulsory RFQ briefing will be disqualified.**
- iii. The briefing session will start punctually at **11 :00** and information will not be repeated for the benefit of Respondents arriving late.

## 2 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.

## 3 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.

### 3.1 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 the following:

- Proposals will be evaluated on price which will be allocated 80 or 90 points and preference which will be allocated 20 or 10 points dependent on the value of the Services.
- The 80/20 preference point system applies where the acquisition of the Services will be less than R1 000 000.00. However, if the 80/20 preference point system is stipulated in this RFQ and all Bids received exceed R1 000 000.00, the RFQ will be cancelled.
- The 90/10 preference point system applies where acquisition of the Services will exceed R1 000 000.00. However, 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 will be cancelled.

In this RFQ, Transnet will apply **80/20** preference point system prescribed in the PPPFA.

In compliance with the Government Gazette No 34612, Notice No. 754 dated 23 September 2011, as from 1 October 2011 valid B-BBEE Verification Certificates must be issued by:

- (i) Verification Agencies accredited by the South African National Accreditation System [SANAS]; or
- (ii) Registered Auditors approved by the Independent Regulatory Board of Auditors [IRBA], in accordance with the approval granted by the Department of Trade and Industry.

Enterprises will be rated by such agencies based on the following:

#### a) Large Enterprises [i.e. annual turnover greater than R35 million]:

- Rating level based on all seven elements of the B-BBEE scorecard

#### b) Qualifying Small Enterprises – QSE [i.e. annual turnover between R5 million and R35 million]:

- Rating based on any four of the elements of the B-BBEE scorecard

**c) Exempted Micro Enterprises – EME [i.e. annual turnover less than R5 million]:**

In accordance with B-BBEE Codes of Good Practice [Statement 000, Section 4], any enterprise with an annual total revenue of R 5 million or less qualifies as an EME.

- Automatic rating of B-BBEE Level 4 irrespective of race or ownership
- Black ownership greater than 50% or Black Women ownership greater than 50% automatically qualify as B-BBEE Level 3

Sufficient evidence to qualify as an EME would be a certificate (which may be in the form of a letter) from an auditor or accounting officer or a certificate from a Verification Agency accredited by SANAS. The certificate must confirm the company's turnover, black ownership / black female ownership, B-BBEE status level and validity date.

*Respondents are required to furnish proof of the above to Transnet. [i.e. a valid detailed scorecard as stipulated above in respect of Large Enterprises and QSEs, or a valid certificate in respect of EMEs].*

Transnet will accordingly allocate a maximum of **20 [twenty] points** to the Respondent's final score based on an entity's B-BBEE scorecard rating. *[Refer **Annexure A- B-BBEE Preference Points Claim Form** for further details].*

N.B. Failure to submit a B-BBEE certificate, which is valid as at the Closing Date of this RFP, will result in a score of zero being allocated for B-BBEE.

*[Refer clause **Error! Reference source not found.** below for Returnable Documents required]*

#### **4 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: Cobus Carstens  
 Email: [cobus.carstens@transnet.net](mailto:cobus.carstens@transnet.net)

Respondents may also, at any time after the closing date of the RFQ, communicate with the Secretariat of the Transnet Acquisition Council on any matter relating to its RFQ response:

Email [carol.swan@transnet.net](mailto:carol.swan@transnet.net)

#### **5 Tax Clearance**

The Respondent's original valid Tax Clearance Certificate must accompany the Quotation. Failure to provide this document with the RFQ submission will result in disqualification.

#### **6 VAT Registration**

The valid VAT registration number must be stated here: \_\_\_\_\_ *[if applicable].*

**7 Legal Compliance**

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

**8 Changes to Quotations**

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

**9 Pricing**

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

**10 Prices Subject to Confirmation**

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

**11 Negotiations**

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

**12 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.

**13 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.

In addition, Transnet reserves the right to exclude any Respondent from the bidding process who has been convicted of a serious breach of law during the preceding 5 [five] years, including but not limited to breaches of the Competition Act 89 of 1998. Respondents are required to indicate below whether or not they have been found guilty of a serious breach of law during the past 5 [five] years:

I/We \_\_\_\_\_ do hereby certify that *I/we have/have not been* found guilty during the preceding 5 [five] years of a serious breach of law, including but not limited to a breach of the Competition Act, 89 of 1998, by a court of law, tribunal or

other administrative body. The type of breach that the Respondent is required to disclose excludes relatively minor offences or misdemeanours, e.g. traffic offences.

Where found guilty of such a serious breach, please disclose:

NATURE OF BREACH:

---



---

DATE OF BREACH: \_\_\_\_\_

Furthermore, I/we acknowledge that Transnet SOC Ltd reserves the right to exclude any Respondent from the bidding process, should that person or entity have been found guilty of a serious breach of law, tribunal or regulatory obligation.

**14 Prequalification and Evaluation Criteria**

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

- **STAGE ONE - Administrative responsiveness** - Completeness of response and returnable document
- **STAGE TWO - Substantive responsiveness** – Prequalification criteria, if any, must be met and whether the Bid materially complies with the scope and/or specification given
- **STAGE THREE: Test Minimum Threshold 70 % for Technical Criteria**
  - As prescribed in terms of the Preferential Procurement Policy Framework Act (PPPFA), Act 5 of 2000 and its Regulations, Respondents are to note that functionality is included as threshold with a prescribed percentage threshold of 70%. Criteria below will form part of the technical evaluation.

Pre-Qualification Criteria	% Weightings	RFQ Reference
Supply copy of valid Pest Control Operator Certificate specifically for industrial weed	Yes / No	See mandatory documents
Must provide evidence of experience (Herbicide application and refuse removal)	15	See Mandatory Documents
Provide a Health and Environmental Plan	40	Annexure A
Provide a schedule of work, method statement and Herbicide MSDS list	15	Annexure A
Provide all Data as per clause 14 as per Annexure A	30	Annexure A

Pre-Qualification Criteria	% Weightings	RFQ Reference
<b>Total</b>	<b>100%</b>	

- Weighted evaluation based on 80/20 preference point system as indicated in paragraph 3:
  - 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
  - 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 below:

B-BBEE Status Level of Contributor	Number of points (80/20 system)
1	20
2	18
3	16
4	12
5	8
6	6
7	4
8	2
Non-compliant contributor	0

**15 Validity Period**

Transnet desires a validity period of 60 [sixty] 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:

\_\_\_\_\_

<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.



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]
1) SECTION 2 : Quotation Form	
2) Original valid Tax Clearance Certificate [Consortia / Joint Ventures must submit a separate Tax Clearance Certificate for each party]	
3) Copy of a valid PCO certificate for Industrial Weed Control	
4) List of herbicides to be used and the dosages for each	
5) Must provide evidence of experience (Herbicide application and refuse removal)	
6) SECTION 4 : Compliance Document	
7) SECTION 5 : Certificate of Attendance of the Briefing Session	

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	
- Valid B-BBEE Verification Certificate [RSA Large Enterprises and QSEs] Note: failure to provide a valid B-BBEE Verification Certificate at the closing date and time of the tender will result in an automatic score of zero being allocated for B-BBEE scorecard	
- Valid B-BBEE certificate from auditor, accounting officer or SANAS accredited	

Essential Returnable Documents	Submitted [Yes or No]
Verification Agency [RSA EMEs] Note: failure to provide a valid B-BBEE Verification Certificate at the closing date and time of the tender will result in an automatic score of zero being allocated for B-BBEE scorecard	
- 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	
- SECTION 3 : Standard Terms and Conditions of Contract for the Supply of Services to Transnet	
SECTION 6 : Vendor Application Form	
- Original cancelled cheque or bank verification of banking details	
- Certified copies of IDs of shareholder/directors/members [as applicable]	
- Certified copy of Certificate of Incorporation [CM29/CM9 name change]	
- Certified copy of share certificates [CK1/CK2 if C.C.]	
- Entity's letterhead	
- Certified copy of VAT Registration Certificate [RSA entities only]	
- Certified copy of valid Company Registration Certificate [if applicable]	
- A signed letter from Respondent's auditor or accountant confirming most recent annual turnover figures	
<b>Letter of good standing from Compensation Commissioner</b>	

c) In addition to the requirements of paragraph a) and b) above, Respondents are further requested to submit with their Proposals the following **additional documents** as detailed below.

Please confirm submission of these additional documents by so indicating [Yes or No] in the table below:

"PREVIEW COPY ONLY"

## 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 and/or having to accept any less favourable offer.

### Schedule of Quantities and Price Schedule

I/We quote as follows for the goods required, on a "delivered nominated destination" basis, excluding VAT:

Item No	Description of Goods / Services	Quantity	Unit of Measure	Total Price (ZAR)
1	Removal and poisoning of Vegetation between Worcester and Jubilee and maintenance of areas from day one	448 lots	Lump Sum (for 448 lots)	R  (25% of total value)
2	Removal and poisoning of Vegetation between Jubilee and Sonrug and maintenance of areas from day one	456 Lots	Lump Sum (for 456 lots)	R  (25% of total value)
3	Removal and poisoning of Vegetation between Sonrug and Voorbaai and maintenance of areas from day one	412 Lots	Lump Sum (for 412 lots)	R  (25% of total value)
4	On-going maintenance of the entire section	1316 Lots	Lot (for 1316 lots)	R  ( 25% of total )

Respondent's Signature

Date & Company Stamp

**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.

**REFERENCES**

Please indicate below the company names and contact details of customers whom Transnet may contact to seek third party evaluations of your current service level.

NAME OF COMPANY	CONTACT PERSON	TELEPHONE

"PREVIEW COPY ONLY"

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

\_\_\_\_\_  
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 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.

#### 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 or any application thereof, the Supplier/Service Provider hereby indemnifies Transnet against and holds 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 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.

## 8 TERMINATION OF ORDER

- 8.1 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.
- 8.2 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.
- 8.3 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.
- 8.4 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.

## 9 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.

## 10 WARRANTY

The Supplier/Service Provider warrants that it is competent to supply the Services in accordance with these Terms to the reasonable satisfaction of Transnet and that all Services delivered under the Order: (a) conform and comply in all relevant legislation, standards, directives and orders related to [inter alia] the 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.

**11 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 writing 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.

**12 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.

**13 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.

**14 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.

**15 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. 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.

**16 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.



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 \_\_\_\_\_ 20\_\_\_\_

.....  
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 :	
Fax / Simile :	
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

**It is compulsory you complete this document and return with you RFQ (See Mandatory Returnable Documents Section 1)**

## COMPLIANCE TO CLAUSE 14 &amp; A15 PART A OF SPECIFICATIONS

Requirement	Supplied YES or NO
A14.1 A full description of the plant to be used by the Contractor for all aspects of the work required to ensure performance as specified.	
A14.2 A full description of the methods of control to be used by the Contractor for all aspects of the work required to ensure performance as specified.	
<p>A14.3 The particulars to be provided in respect of the Contractor's vegetation control program shall include but not be limited to the following:</p> <p>A14.3.1 An assessment, based on a proper site investigation of the nature and types of vegetation to be controlled in the contract area,</p> <p>A14.3.2 The appropriate methods and procedures to be implemented by him/her to achieve the standards of vegetation control required in terms of the contract,</p> <p>A14.3.3 The chemicals to be applied, design mixes, rates of application and the timing and number of applications.</p> <p>A14.3.4 The methods and procedures to be implemented in mixing of chemicals pertaining to health and safety, quality control, protection of third parties and security,</p>	
<p>A14.4 The Contractor shall conduct regular site investigations and monitoring procedures for the purpose of:</p> <ul style="list-style-type: none"> <li>• ascertaining factors that could influence the work;</li> <li>• monitoring the standard of vegetation control achieved;</li> <li>• identifying any damage or hazards which may have been caused by the vegetation control operation, and</li> <li>• planning of timeous execution of remedial work where control is not being achieved.</li> </ul>	
A14.5 Whether the bidder intends to work on Saturdays, Sundays or statutory holidays or is prepared to work on such days if required to do so by Transnet Freight Rail.	
A14.6 <del>Proof of inspection of all sites on the enclosed Site Inspection Certificate.</del>	N/A
A14.7 An undertaking that all equipment will be ready for operation and that the work can commence timeously, to comply with requirements of the contract	
A14.8 A list of registered herbicides to be used in the work, supported by specimen labels, indicating: Trade name Generic name	

<p>Registration Number                  Ingredients (type and content) as shown on the label                  Application rates</p> <p>Where herbicides are to be used for stump treatment it is required that a suitable colourant be added to the herbicide or that an herbicide containing a colourant be used. Detail of the colourants, and with which products they are to be used, must be provided.</p> <p>The Technical Officer or his/her deputy's approval shall first be obtained for use of other herbicides.</p>	
<p>A14.9 The contractor must indicate whether he/she intends using sub-contractors. No sub-contractors will be allowed on site without the prior permission of the Technical Officer.</p>	
<p>A14.10 A Health and Safety file must be kept on site at all times.</p>	
<p>Clause A15 – Part A Special Conditions of Contract and Specs Method of Control</p>	
<p>A14.11 Indicate size of team that will be on site</p>	<p><b>No of workers</b></p>

"PREVIEW COPY ONLY"

**Section 5:**

**CERTIFICATE OF ATTENDANCE OF RFQ BRIEFING**

It is hereby certified that –

1. \_\_\_\_\_

2. \_\_\_\_\_

Representative(s) of \_\_\_\_\_ [name of entity]

attended the RFP briefing in respect of the proposed Services to be rendered in terms of this RFP on \_\_\_\_\_ 20\_\_\_\_

\_\_\_\_\_  
TRANSNET'S REPRESENTATIVE

\_\_\_\_\_  
RESPONDENT'S REPRESENTATIVE

DATE \_\_\_\_\_

DATE \_\_\_\_\_

EMAIL \_\_\_\_\_

**"PREVIEW COPY ONLY"**

**Section 6:**

**VENDOR APPLICATION FORM**

**"PREVIEW COPY ONLY"**

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

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



# 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**)
3. **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 registration 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, **No payments can be made to a vendor** 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,

Transnet Vendor/Supplier Management .Contact person Carol tell: 021 940-3846 fax 021 940-3883.



# Supplier Declaration 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 E-Mail Address							
Company Website Address							
Bank Name					Bank Account Number		
Postal Address						Code	
Physical Address						Code	
Contact Person							
Designation							
Telephone							
Email							
Annual Turnover Range (Last Financial Year)	< R5 Million	R5-35 million	> R35 million				
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 Service Supplied (E.G.: Stationery/Consulting)							
<b>BEE Ownership Details</b>							
% Black Ownership	% Black women ownership	% Disabled person/s ownership					
Does your company have a BEE certificate	Yes	No					
What is your broad based BEE status (Level 1 to 9 / Unknown)							
How many personnel does the firm employ	Permanent	Part time					
Transnet Contact Person							
Contact number							
Transnet operating division							
<b>Duly Authorised To Sign For And On Behalf Of Firm / Organisation</b>							
Name					Designation		
Signature					Date		
<b>Stamp And Signature Of Commissioner Of Oath</b>							
Name					Date		
Signature					Telephone No.		

**NB:** 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.

Transnet Vendor/Supplier Management .Contact person Carol tell: 021 940-3846 fax 021 940-3883

**Section 7:**

**GENERAL BID CONDITIONS - APPENDIX (i) SERVICES**

This document is not attached, but is available on request.

**"PREVIEW COPY ONLY"**



**Section 8:**

**STANDARD TERMS AND CONDITIONS OF CONTRACT FOR THE PROVISION OF  
SERVICES TO TRANSNET - APPENDIX (ii)**

This document is not attached, but is available on request.

**"PREVIEW COPY ONLY"**

TRANSNET



freight rail

## ANNEXURE A

TENDER/CONTRACT NO. BLE52433

### VEGETATION CONTROL WITHIN TRANSNET FREIGHT RAIL RIGHT OF WAY BETWEEN WORCESTER AND VOORBAAI STATIONS

#### SPECIAL CONDITIONS

#### A1 SCOPE OF WORK

This contract covers the control of vegetation by removal of trees and alien vegetation within the rail reserve on either side of the railway line, from fence to fence, along the **Worcester to Voorbaai Railway line** in the geographical area controlled by the Depot Engineer, Bellville.

#### A2 SUFFICIENCY OF TENDER

A2.1 The contract will only be awarded to a tenderer who has experience in the field of cutting trees and grass and applying herbicide to control vegetation and the removal of rubbish.

A2.2 The Certificate of Attendance of the Briefing Session – Section 5 – signed by the Technical Officer or his/her deputy (compulsory) must be submitted with the tender. The attendance of this briefing session/site meeting is compulsory. The submission thereof will be deemed to indicate the Contractor's acquaintance with the occurrence and extent of species of vegetation to be controlled and all aspects that will and/or may affect such control and costs thereof.

#### A3 DURATION OF CONTRACT

This contract will commence within seven working days of the date of acknowledgement of receipt of the notification of acceptance of tender with Transnet Freight Rail and completion of the initial works shall be complete within thirty two weeks (32) of the commencement of the contract.

#### A4 COMPLIANCE WITH STATUTES

A4.1 The Contractor shall comply with all applicable legislation, Codes of Practice and Local, Regional or Provincial Authority regulations. The Contractor shall in particular, comply with the following Acts;

- a) The Fertilizers, Farm Feeds, Agricultural Remedies and Stock Remedies Act (Act 36 of 1947) as amended.
- b) The Hazardous Substance Act (Act 15 of 1973) as amended.
- c) The Water Act (Act 54 of 1956) and the Water Amendment Act (Act 96 of 1984)(where applicable).
- d) The Environmental Conservation Act (Act 73 of 1989).
- e) SABS Code of Practice No. 0206-1985 "Safety procedures for the disposal of surplus pesticide and associated toxic waste".
- f) Conservation of Agricultural resources Act (Act 43 of 1983) as amended.
- g) Common law of nuisance.

- h) Mountain Catchment Area Act (Act 63 of 1970).
  - i) The compensation for Occupational Injuries and Diseases Act (Act 130 of 1993).
  - j) The Occupational Health and Safety Act (Act 85 of 1993)
  - k) The National Veld and Forest fire Act (Act 101 of 1998)
- A4.2 Where herbicide is to be used the Contractor shall ensure that this work be done in the presence and under the supervision of a **Pest Control Operator**, specialising in the field of industrial weed control. The Pest Control Operator must be registered in terms of the Farm Feeds Agricultural and Stock Remedies Act, Act 36 of 1947, as amended.

A4.3 **A copy of the currently valid certificate issued by the Department of Agriculture to certify that the tenderer or his/her representative is a pest control operator, registered for vegetation (specifically Industrial Weed) control, in terms of Act 36 of 1947, as stipulated under clause A4.2, must be submitted with this tender.**

**A5 MAINTENANCE PERIOD**

The maintenance period begins immediately after any of the initial works and is to continue until the contract completion date. (i.e. from day 1, all work done must remain at that standard for the entire duration of the contract.)

**A6 RETENTION MONEY**

There will be no retention of money

**A7 PENALTIES FOR LATE COMPLETION**

A penalty of R2000 per day will be levied for late completion of the initial stage.

**A8 TO BE PROVIDED BY TRANSNET FREIGHT RAIL**

N I L

**A9 TO BE PROVIDED BY THE CONTRACTOR**

A9.1 In addition to all labour, water, materials, plant, equipment and incidentals needed to complete the work, the Contractor shall provide all accommodation and toilet facilities for his/her employees. No accommodation shall be erected or utilised on Transnet Freight Rail property. The contractor shall make available, on a daily basis, transport for his staff to and from the working site.

A9.2 The Contractor shall provide safe and secure storage facilities for all herbicides, chemicals, plant and equipment brought onto and in use on the site. Such facilities shall be capable of ensuring that unauthorised persons or animals cannot gain access to such chemicals and equipment. Such storage facilities shall not be on Transnet Freight Rail property.

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 contract area.

A9.3 The contractor shall ensure that any of his/her staff working with chain saws or similar are attired in the correct protective clothing (helmet with visor, gloves, long pants, boots).

A9.4 The Contractor shall appoint at each 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.

An effective safety procedure to be followed by all personnel on any work site in the case of approaching rail traffic shall be compiled by the Contractor and implemented before any work commences. The procedure shall be updated whenever the need arises and any changes shall be communicated to all employees on a work site before work proceeds.

The personnel of the contractor shall at all time during bush and tree felling operations wear reflective safety jackets. These reflective jackets must either be yellow or light blue and preferably bear the name of the contractor's company. Should the contractor wish to use another colour this must first be cleared out with the Technical Officer or his/her deputy.

Contractor's staff working on the site may not wear any form of visible red or green outer garments.

The Contractor shall make available employees to be trained, certificated and used as lookouts when required. The training shall be done at no cost to the contractor.

#### **A10 SCHEDULE OF QUANTITIES AND PRICES**

A10.1 The quantities in the Schedule of Prices located at Section 6 (Service Fees and Costs) are estimated and may be more or less than stated. The Tenderer shall submit with his/her tender a complete and detailed priced Schedule (prepared in black ink) for the Works.

A10.2 The Tenderer shall price each item. If the Contractor has omitted to price any items in the Schedule, the cost of the work included in such items will be held to be spread over and included in the prices given in the other items of work.

The absence of stated quantities in the Schedule of Quantities / Price Schedule – Section 2 / is no guarantee that none will be required. Reasonable prices should therefore be inserted for every item as these prices may be considered in adjudication of tenders.

A10.3 The short descriptions of the items in the Schedule of Quantities & Price Schedule (Section 2) are for identification purposes only. The Special Conditions (Annexure A) of Contract and Project Specifications (Annexure B) shall be read in conjunction with the Schedule of Quantities / Price Schedule (Section 2). In so far as these documents have any bearing, they shall be referred to for details of the description, quality, and test of plant and material used, and the workmanship, conditions, obligations, liabilities and instructions generally which shall be complied with in carrying out the Contract. The cost of complying with all conditions, obligations and liabilities described in the contract documents including profit, shall be deemed to be included in the rates quoted by the Contractor in the Schedule of Quantities / Price Schedule (Section 2).

#### **A11 VALUE-ADDED TAX**

Pricing must always exclude Value-added Tax.

#### **A12 SITE MEETINGS**

A12.1 The Contractor shall attend site meetings when required. These meetings will be held under the chairmanship of the Technical Officer or his/her deputy. When sub-contractors are required to attend, the Contractor shall ensure their attendance.

A12.2 An inaugural site meeting, under the chairmanship of the Technical Officer, will be held at the work site. The attendance of this meeting is compulsory by the Contractor and ALL his staff who will be working on the site. During this meeting, the Contractor and his staff will receive instruction from a Transnet Safety Officer Representative regarding:-

- i. the specific hazards, safety, health and environment rules for Transnet Freight Rail premises and
- ii. on-site instructions regarding Risk Assessment, action plans to mitigate risks, introduction to key personnel and substance abuse testing

A12.3 If for any reason the Contractor changes his staff, the new staff, before they enter on to the worksite, MUST undergo an induction session conducted by a Transnet Safety Officer Representative.

### **A13 SITE BOOKS**

- A13.1 The Contractor shall provide a site instruction book and a daily diary (both in triplicate) at the site as directed by the Technical Officer for the duration of the contract.
- A13.2 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.
- A13.3 The Contractor shall complete the daily diary and a detailed description of the work done shall be recorded on a daily basis. Neither of the books shall be removed from the site without the permission of the Technical Officer or his/her deputy.
- A13.4 Upon the completion of the contract, both books are to be handed to the Technical Officer and both become the property of Transnet Freight Rail.

### **A14 INFORMATION TO BE PROVIDED WITH TENDER**

- A14.1 A full description of the plant to be used by the Contractor for all aspects of the work required to ensure performance as specified.
- A14.2 A full description of the methods of control to be used by the Contractor for all aspects of the work required to ensure performance as specified.
- A14.3 The particulars to be provided in respect of the Contractor's vegetation control program shall include but not be limited to the following:
- A14.3.1 An assessment, based on a proper site investigation of the nature and types of vegetation to be controlled in the contract area.
- A14.3.2 The appropriate methods and procedures to be implemented by him/her to achieve the standards of vegetation control required in terms of the contract,
- A14.3.3 The chemicals to be applied, design mixes, rates of application and the timing and number of applications.
- A14.3.4 The methods and procedures to be implemented in mixing of chemicals pertaining to health and safety, quality control, protection of third parties and security.
- A14.4 The Contractor shall conduct regular site investigations and monitoring procedures for the purpose of:
- ascertaining factors that could influence the work;
  - monitoring the standard of vegetation control achieved;
  - identifying any damage or hazards which may have been caused by the vegetation control operation, and
  - planning of timeous execution of remedial work where control is not being achieved.
- A14.5 Whether the tenderer intends to work on Saturdays, Sundays or statutory holidays or is prepared to work on such days if required to do so by Transnet Freight Rail.
- A14.6 Proof of inspection of all sites on the enclosed Site Inspection Certificate.
- A14.7 An undertaking that all equipment will be ready for operation and that the work can commence timeously, to comply with requirements of the contract.
- A14.8 A list of registered herbicides to be used in the work, supported by specimen labels, indicating:  
Trade name

Generic name  
Registration Number  
Ingredients (type and content) as shown on the label  
Application rates

Where herbicides are to be used for stump treatment it is required that a suitable colourant be added to the herbicide or that an herbicide containing a colourant be used. Detail of the colourants, and with which products they are to be used, must be provided.

The Technical Officer or his/her deputy's approval shall first be obtained for use of other herbicides.

A14.9 The contractor must indicate whether he/she intends using sub-contractors. No sub-contractors will be allowed on site without the prior permission of the Technical Officer.

A14.10 A Health and Safety file must be kept on site at all times.

#### **A15 DAMAGE TO FAUNA AND FLORA**

A15.1 The Contractor shall ensure that his/her employees exercise care and consideration at all times for the fauna and flora within and adjacent to the area to be sprayed.

The Contractor shall take the presence of drainage works into account and shall ensure that no water-borne movement of herbicides is possible.

A15.2 The Contractor shall not apply any chemicals of an explosive, inflammable, highly volatile or corrosive nature, which may damage crops, vegetation or property, or be hazardous to humans or animals. The Contractor shall assume full responsibility for the efficiency and safety of whatever chemicals are used.

A15.3 Dumping or polluting of any kind will not be permitted. This stipulation is also applicable to the washing out of tanks and equipment containing harmful chemicals and pollutants.

The Contractor shall institute and maintain procedures for the safe disposal of all chemicals and residual materials originating from the execution of the works.

Containers and residual material shall not be disposed of on Transnet Freight Rail property or as part of Transnet Freight Rail refuse.

A15.4 The contractor shall take particular note of environmentally sensitive areas and shall plan and execute his/her work with the utmost care and responsibility.

**A15.5 Burning will not be allowed under any circumstances as a means of control. The making of fires, for whatever purpose, on Transnet Freight Rail property is also strictly prohibited.**

#### **A16 DAMAGE TO ADJOINING PROPERTY**

The Contractor shall ensure that no damage occurs to adjoining property. He shall take all necessary precautions to ensure that the branches, etc. being removed from the trees as the work progresses, do not damage any structure, equipment, persons or other items on any adjoining property.

The Contractor shall negotiate with the property owner(s) for permission to work on their land for the purpose of carrying out the work.

The Contractor shall ensure that his workmen do not abuse any permissions granted by adjoining property owners allowing them on to their property for the execution of the work.



## ANNEXURE B

TENDER/CONTRACT NO. BLE52433

**VEGETATION CONTROL WITHIN TRANSNET FREIGHT RAIL RIGHT OF WAY BETWEEN  
WORCESTER AND VOORBAAI STATIONS**

**PROJECT SPECIFICATIONS**

**B1 SCOPE OF WORK**

- B1.1 This contract covers vegetation control by removal of trees and vegetation within the rail reserve on either side of the railway line, from fence to fence, along the Worcester and Voorbaai Railway line in the geographical area controlled by the Depot Engineer, Bellville.
- B1.2 Declared weeds means category 1 plants and declared invasive plants means category 2 and 3 plants proclaimed under the Conservation of Agricultural Resources Act, Act No. 43 of 1983, including amendments (GN Regulation 1048 of 25/05/1984 amended by GN Regulation 280 of 30/03/2001) thereto.
- B1.3 **Certain protected plant species and desirable plants are not to be controlled or removed and this plant material will be identified by the Technical Officer (or his/her deputy) prior to the start of the Contractor's program.**
- B1.4 Certain protected plant species and desirable plants will have to be removed as described in clause B3 – Method of Control.
- B1.5 This part covers the techniques, required standards of workmanship, inspections, measurement, payment, and acceptability of the works in respect of the removal of the trees required in terms of the contract.
- B1.6 The essence of the contract is that Transnet Freight Rail requires all specified trees to be cut down and the stumps treated against re-growth.
- B1.7 The ways and means by which the above-mentioned results are obtained are the responsibility of the Contractor. Transnet Freight Rail, however, shall have the right to monitor the materials and activities of the Contractor to ascertain that all procedures are in accordance with his/her tender, the relevant legislation and are conducive to applying herbicides. Such right of monitoring shall be entirely without prejudice to Transnet Freight Rail and shall in no way relieve the Contractor of his/her responsibility for satisfactory removal of vegetation.
- B1.8 Failure to comply with the minimum performance proposed by the Contractor in his/her tender may form the basis for non-payment for work done, pending the achievement of control as defined and/or termination or cancellation of the contract.

The performance due by the Contractor shall include any work arising from or incidental to the above or required of the Contractor for the proper completion of the contract in accordance with the true meaning and intent of the contract documents.

The Contractor shall obtain his/her own information regarding species, occurrence and extent of vegetation to be controlled in order to comply with the required standards.

## B2 WORK AREA

The area to be cleaned consists of strips along the railway line(s) defined in paragraph A1, as specified below or as stipulated by the Technical Officer or his/her deputy.

### Worcester to Voorbaai

The work area consists of three parts, 1- Worcester (at 0 Km) to Jubilee station (at Km112), 2- Jubilee (at Km 112) to Sonrug (at Km 226) and 3- Sonrug (at Km 226) to Voorbaai Km329. This is a distance of 329 Km.

The area to be controlled is a 9m wide strip  
**(i.e. 4,5m on either side of the centre line of the track.)**

For the purpose of managing this contract, the area will be divided into lots, each lot being 500m long on each side of the line – thus 4 lots per kilometre, or part thereof, as indicated in the Schedule of Prices and Quantities / Price Schedule – Section 2.

## B3 METHOD OF CONTROL

### B3.1 VEGETATION

This contract is in two stages.

The first stage is the removal and poisoning of trees, bushes, declared weeds, declared invader plants, reeds and certain indigenous plants in each of the 3 sections.

The second stage is an ongoing follow up operation continuing from the moment of the first cut and continuing for the full duration of the contract.

#### B3.1.1 Control of the first stage is achieved when;

- Woody and certain plant material, i.e. trees, bush, declared weeds, declared invader plants and reeds, has been cut back to heights as specified herein and that the remaining stumps and growth cease to exist as living organisms or entities.
- Trees taller than 1,5m which need to be removed must be cut down and the stumps poisoned whilst the foliage of trees 1,5m and smaller must be sprayed with poison.
- No new growth, such as seedlings or saplings, of woody plant material and reeds, of any height, occur,
- All gum trees whose trunk diameter is smaller than 400mm and any larger Gum trees which could cause problems to Transnet in the future are to be felled and the remaining stumps poisoned.
- Where large gum trees are to be felled, the Depot Horticulturalist (Jacques Thom, 083 293-7476) or his assigned deputy MUST be present.
- Cut overhanging, protruding branches of trees outside the work area whose vertical height above the rail is less than six (6) metres.
- **Within 1,5m on either side of the centre line, no vegetation is to remain alive. This includes protected plant species and desirable plants. (i.e. a 3m wide strip with the track in the middle)**
- **In the remaining 3 metres on either side, only declared weeds, declared invader plants and reeds must be cut back to a height of 0.3 metre. The remaining stumps and growth must cease to exist as living organisms or entities.**
- Where indigenous vegetation is removed, the remaining stumps/branches must be treated with poison.
- Plant material, other than woody / herbaceous plant material and reeds stipulated above, remains alive.
- The Contractor is to ensure that his/her poisoning is effective and that vegetation is in fact dead.
- On the side where the service road is encountered, in the area from the outermost rail for a distance of one metre beyond the service road, no vegetation, other than low growing grasses, is to remain alive. If the distance between the outermost rail exceeds 4 metres, then the contractor



is only obliged to clear the areas as described above and the service road and 1 metre on either side of all vegetation.

- In general all cut, dead or dry remains of any vegetation within the treated area are to be completely removed from Transnet property or chipped with a chipper machine.
- Where remains are removed to the nearest official dumping site, proof must be provided of where the remains were dumped.
- Where alien vegetation is sparse and it opposes no fire threat, or will cause an obstruction, then they can just be cut into manageable pieces and left on site but this must first be cleared out with the Technical Officer and be done under written instruction in the site diary.

B3.1.2 Note the following:

- Throughout the whole area, a 9m clear strip must exist with the track in the middle except in station areas where the average width of the Transnet reserve is to be maintained or except where otherwise requested by the Technical Officer.
- At stations, all aliens within the station precincts are to be removed.
- At stations, the areas adjacent to the main line and where the service road is behind the yard's these areas are to be controlled as well.

B3.1.3 Control of the second stage is ongoing:

From the day one at the first cut

**1.5 meters on either side of the centre line of the track**  
No vegetation exists at all

**1.5m meters to 4.5 meters on either side of the centre line**

All new plant growth (seedlings) which has started growing since the initial cut is poisoned.

All cut down trees and bushes which have commenced coppicing are sprayed.

All previously poisoned trees smaller than 1.5m tall are removed.

No declared weed or invaders exist

Only low growing grasses and "lunbos" continue to exist

- B3.1.4 The Tenderer is responsible to travel the whole section and make his own observations and notes as to what the entire work load is and to determine a suitable method and program of work.  
B3.2 The Contractor's methods and program shall provide for rapid and effective removal. Techniques, programming and chemicals employed shall therefore be directed at this aim. The Contractor shall carry out immediate action to control growth in all instances where rapid and effective control is not achieved during any period of the contract.

- B3.3 Any deviation from the method of work submitted as per clause A14.3 by the Contractor shall be subject to the approval of the Technical Officer.

- B3.4 Where plant material outside of the work area is severely damaged or destroyed due to negligence on the part of the Contractor, the Contractor shall be held responsible for the full reinstatement thereof.

## B4 WORK TIMES

The work area is to be cut during the hours of 7:00 am and 5:00 pm Mondays to Fridays unless otherwise arranged with the Technical officer.

The contractor has eighteen (18) weeks in which to complete the first stage of the contract. Thereafter the standard is to be maintained for the full period of the contract. The second stage commences at the conclusion of the first day's work of the initial works and ends on 21 March 2014

## B5 STANDARDS OF WORKMANSHIP

- B5.1 Plant material, other than woody plant material and reeds, must be alive.

- B5.2 Cut woody plant material, i.e. trees, bush, noxious weed and plant invaders, as well as reeds must cease to exist.
- B5.3 All cut, dead or dry remains of any vegetation within the treated area are to be completely removed from Transnet property, or chip all cuttings and dead material on site and evenly distribute the chips. Chips are to fall a minimum of 4 metres from the nearest outer rail of any railway line and not clog any drainage system, become a fire hazard or lie on or near to the boundary fence. Where instructed in writing to do so, cuttings may be stacked on site

B5.4 OVERALL CONTROL

- B5.4.1 The overall standard of control to be achieved by the Contractor over the contract area, defined as "Overall Control" and expressed as a percentage, will be determined by application of the following formula;

$$\text{Overall Control} = \frac{(\text{WorkLots controlled} - \text{WorkLots rejected})}{\text{WorkLots controlled}} \times 100$$

- B5.4.2 The minimum percentage of the total work that shall comply with the standard of control shall be 90%. This measurement will be applicable for each inspection carried out during the term of the contract.
- B5.4.3 Failure by the Contractor to achieve the standard of "Overall Control" shall enable the Project Manager to terminate the Contract (See clause 8 of the US7 document).
- B5.5 Burning and hoeing ("skoffeling") will not be allowed as method of achieving control. Herbicides which act as a scorching agent (e.g. with Paraquat or similar active ingredient) are incapable of meeting the definition of control and shall not be used. Scorching of canopy growth only shall not constitute control of vegetation as defined.

**B6 PERFORMANCE MONITORING, EVALUATION AND MEASUREMENT**

- B6.1 The Contractor shall undertake the planning and programming of the entire vegetation control operation and shall submit to the Technical Officer for approval full particulars thereof within 1 week from the date of notification by Transnet Freight Rail.
- B6.2 In addition to the initial program provided for in terms of clause B6.1 above, the Contractor shall submit weekly working programs to the Technical Officer, 3 days in advance of the next working week, indicating the specific areas where the Contractor will be working each day of the week. Failure by the Contractor to submit a daily program and/or deviating from it without notifying the Technical Officer, preventing him/her from monitoring the Contractor's performance, may result in payment for such work being withheld.
- B6.1 The Contractor shall at all times be responsible for supervision of the work and for follow-up inspections to monitor the successful control achieved over areas of completed application. He/she shall immediately take appropriate remedial action in areas where the specified standards of control are not achieved.
- B6.2 The Technical Officer or his/her deputy shall at any time during the operation carry out inspections of the Contractor's performance methods and procedures. He/she may at any time take samples of the chemicals applied and arrange for the testing thereof. Where test-samples fail to conform to the specifications the costs of testing will be recovered from the Contractor. The Technical Officer may order the Contractor to re-treat entire sections where such chemicals were applied.
- B6.3 The Technical Officer or his/her deputy shall, during the contract period, carry out four official inspections of the work for the purpose of measuring progress and evaluating whether control, as defined, has been achieved.

- B6.3.1 The first inspection will take place six (6) weeks after the commencement of the contract and at which time all of the first stage of the work **between Worcester and Jubilee** shall have been completed and at which time control as described in B5.4 shall have been achieved and maintained to the required standard on an on-going basis.
- B6.3.2 The second inspection will take place six (6) weeks after the commencement of the contract and at which time all of the first stage of the work **between Jubilee and Sonrug** shall have been completed and at which time control as described in B5.4 shall have been achieved and maintained to the required standard on an on-going basis.
- B6.3.3 The third inspection will take place six (6) weeks after the commencement of the contract and at which time all of the first stage of the work **between Jubilee and Sonrug** shall have been completed and at which time control as described in B5.4 shall have been achieved and maintained to the required standard on an on-going basis.
- B6.3.4 The fourth and final inspection will take place in March 2014 at which time the entire section must still be at the standard required about,
- B 6.3.5 During each of these inspections the area cleared will be measured and evaluated. Any area, measured, which does not comply with the specified level of control, will be recorded as rejected work.
- B6.4 The rejection of work that does not comply with the standard of control will be final. No payment will be made for rejected work.
- The Contractor may contest the rejection by the Technical Officer or his/her deputy **only** at the time and place of rejection.
- The rejection of work at any inspection shall remain final for that inspection for payment purposes, notwithstanding the fact that the Contractor may execute further remedial work in order to achieve control at further and final inspections.
- B6.5 In the case where the Technical Officer or his/her deputy and the Contractor fail to agree on rejected work, the rejected work shall be recorded as a "disputed work". The Contractor shall prepare an appropriate record of all disputed work in order that such disputes may be resolved by way of the disputes resolution procedures.
- B6.6 The Project Manager reserves the right to forego any inspection by giving the Contractor written notice of his/her intention to do so. Should the Project Manager decide to forego any inspection, he/she would thereby indicate that he/she is satisfied with the standard of workmanship required for that specific inspection only. He/she would then make full payment to the Contractor to the value associated with that inspection.

The fact that the Project Manager may decide to forego any inspection at his/her discretion does not imply that further inspections would not be carried out. It only implies that for that inspection, the Project Manager is satisfied with the control achieved and will not penalise the Contractor for that inspection.

## **B7 REMEDIAL WORK**

- B7.1 The Contractor shall carry out remedial work to all work where control has not been achieved. Such remedial work shall include the removal of cut, dry or dead growth from the controlled work area.
- B7.2 The Technical Officer may, at any time order the Contractor to carry out remedial action, to commence within 2 weeks after being so ordered. Prior to the commencement of this proposed remedial action an envisaged remedial work program must be submitted to the Technical Officer for his/her approval. Failing to commence with remedial work the Technical Officer may arrange for such action to be carried out by others at the cost of the Contractor.

**B8 PAYMENT**

- B8.1 Payment will be made on completion of the work, based on the number of work lots successfully cleaned as instructed by the Technical Officer and from which the Contractor successfully removed the vegetation and achieved the standard of control defined in clause B5.4.
- B8.2 No payment will be made for rejected work where control achieved does not meet the standards of control specified.
- B8.3 Payment for the work completed will be made upon receipt of an invoice from the Contractor, in four stages, within 30 days of receipt of the invoice.
- B8.3.1 The first payment for the first stage at 25% of the amount tendered will be paid following the first inspection at which time all of the first stage of work between Worcester and Jubilee shall have been completed and at which time control as described in B5.4 shall have been achieved and maintained.
- B8.3.2 The second payment for the first stage at 25% of the amount tendered will be paid following the first inspection at which time all of the first stage of work between Jubilee and Sonrug shall have been completed and at which time control as described in B5.4 shall have been achieved and maintained.
- B8.3.3 The third payment for the first stage at 25% of the amount tendered will be paid following the first inspection at which time all of the first stage of work between Sonrug and Voorbaai shall have been completed and at which time control as described in B5.4 shall have been achieved and maintained.
- B8.3.4 The fourth a final payment at 25% of the amount tendered will be paid following the fourth and final inspection, based on the number of lots that comply to the maintenance standard required in the second stage.
- B8.4 The rates and prices tendered in the Schedule of Prices / Price Schedule – Section 2, are composite and shall be fully inclusive of all the Contractor costs in respect of establishment on site, labour, materials consumables, Head Office overhead costs, the Contractor's profit, for all delay and consequential costs and for everything of whatever nature required of the Contractor for completion of the work included in the Contract.

"PREVIEW COPY ONLY"

**TRANSNET LIMITED**

(Registration no. 1990/000900/30)

**SAFETY ARRANGEMENTS AND PROCEDURAL COMPLIANCE  
WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT  
(ACT 85 OF 1993) AND APPLICABLE REGULATIONS****1. General**

- 1.1 The Contractor and Transnet Limited (hereinafter referred to as "Transnet") are individual employers, each in its own right, with their respective duties and obligations set out in the Occupational Health and Safety Act, Act 85 of 1993 (the Act) and applicable Regulations.
- 1.2 The Contractor accepts, in terms of the General Conditions of Contract and in terms of the Act, his obligations as an employer in respect of all persons in his employ, other persons on the premises or the Site or place of work or on the work to be executed by him, and under his control. He shall, before commencement with the execution of the contract work, comply with the provisions set out in the Act, and shall implement and maintain a Health and Safety Plan as described in the Construction Regulations, 2003 and as approved by Transnet, on the Site and place of work for the duration of the Contract.
- 1.3 The Contractor accepts his obligation to complying fully with the Act and applicable Regulations notwithstanding the omission of some of the provisions of the Act and the Regulations from this document.
- 1.4 Transnet accepts, in terms of the Act, its obligations as an employer of its own employees working on or associated with the site or place of work, and the Contractor and Technical Officer or his deputy shall at all times, co-operate in respect of the health and safety management of the site, and shall agree on the practical arrangements and procedures to be implemented and maintained during execution of the Works.
- 1.5 In the event of any discrepancies between any legislation and this specification, the applicable legislation will take precedence.

**2. Definitions**

- 2.1 In this Specification any word or expression to which a meaning has been assigned in the Construction Regulations, shall have the meaning so assigned to it, unless the context otherwise indicates: -
- 2.2 The work included in this Contract shall for the purposes of compliance with the Act be deemed to be "**Construction Work**", which, in terms of the Construction Regulations, 2003 means any work in connection with: -
- (a) the erection, maintenance, alteration, renovation, repair, demolition or dismantling of or addition to a building or any similar structure;

- (b) the installation, erection, dismantling or maintenance of fixed plant where such work includes the risk of a person falling;
  - (c) the construction, maintenance, demolition or dismantling of any bridge, dam, canal, road, railway, runway, sewer or water reticulation system or any similar civil engineering structure; or
  - (d) the moving of earth, clearing of land, the making of an excavation, piling, or any similar type of work;
- 2.3 **“competent person”** in relation to construction work, means any person having the knowledge, training and experience specific to the work or task being performed: Provided that where appropriate qualifications and training are registered as per the South African Qualifications Authority Act, 1995 these qualifications and training shall be deemed to be the required qualifications and training;
- 2.4 **“contractor”** means principal contractor and **“sub-contractor”** means contractor as defined by the Construction Regulations, 2003.
- 2.5 **“fall protection plan”** means a documented plan of all risks relating to working from an elevated position, considering the nature of work undertaken, and setting out the procedures and methods applied to eliminate the risk;
- 2.6 **“health and safety file”** means a file, or other record in permanent form, containing the information required to be kept on site in accordance with the Act and applicable Regulations;
- 2.7 **“Health and Safety Plan”** means a documented plan which addresses the hazards identified and include safe work procedures to mitigate, reduce or control the hazards identified;
- 2.8 **“Risk Assessment”** means a programme to determine any risk associated with any hazard at a construction site, in order to identify the steps needed to be taken to remove, reduce or control such hazard;
- 2.9 **“the Act”** means the Occupational Health and Safety Act No. 85 of 1993.

### 3. **Procedural Compliance**

3.1 The Contractor who intends to carry out any construction work shall, before carrying out such work, notify the Provincial Director in writing if the construction work:-

- (a) includes the demolition of a structure exceeding a height of 3 metres; or
- (b) includes the use of explosives to perform construction work; or
- (c) includes the dismantling of fixed plant at a height greater than 3m,

and shall also notify the Provincial Director in writing when the construction work exceeds 30 days or will involve more than 300 person days of construction work and if the construction work:-

- (a) includes excavation work deeper than 1m; or

- (b) includes working at a height greater than 3 metres above ground or a landing.
- 3.2 The notification to the Provincial Director shall be on a form similar to Annexure A of the Construction Regulations, 2003, also shown in Annexure 1 of this Specification. The Contractor shall ensure that a copy of the completed notification form is kept on site for inspection by an inspector, Technical Officer or employee.
- 3.3 The Contractor shall, in accordance with the Act and applicable Regulations, make all the necessary appointments of competent persons in writing on a form similar to Annexure 2 of this Specification and deliver copies thereof to the Technical Officer. Copies should also be retained on the health and safety file.
- 3.4 Subcontractors shall also make the above written appointments and the Contractor shall deliver copies thereof to the Technical Officer.
- 3.5 In the case of a self-employed Contractor or any subcontractor who has the appropriate competencies and supervises the work himself, the appointment of a construction supervisor in terms of regulation 6.1 of the Construction Regulations, 2003 will not be necessary. The Contractor shall in such a case execute and sign a declaration, as in Annexure 3, by which he personally undertakes the duties and obligations of the "Chief Executive Officer" in terms of section 16(1) of the Act.
- 3.6 The Contractor shall, before commencing any work, obtain from the Technical Officer an access certificate as in Annexure 4, executed and signed by him, permitting and limiting access to the designated site or place of work by the Contractor and any subcontractors under his control.
- 3.7 Procedural compliance with Act and Regulations, as above, shall also apply to any subcontractors as employers in their own right. The Contractor shall furnish the Technical Officer with full particulars of such subcontractors and shall ensure that they comply with the Act and Regulations and Protekon's safety requirements and procedure.
4. **Special Permits**

Where special permits are required before work may be carried out such as for hotwork, isolation permits, work permits and occupations, the Contractor shall apply to the Technical Officer or the relevant authority for such permits to be issued. The Contractor shall strictly comply with the conditions and requirements pertaining to the issue of such permits.

#### 5. **Health and Safety Programme**

- 5.1 The Tenderer shall, with his tender, submit a Health and Safety Programme setting out the practical arrangements and procedures to be implemented by him to ensure compliance by him with the Act and Regulations and particularly in respect of: -
- (i) The provision, as far as is reasonably practical, of a working environment that is safe and without risk to the health of his employees and subcontractors in terms of section 8 of the Act;

- (ii) the execution of the contract work in such a manner as to ensure in terms of section 9 of the Act that persons other than those in the Contractor's employment, who may be directly affected by the contract work are not thereby exposed to hazards to their health and safety;
  - (iii) ensuring, as far as is reasonably practical, in terms of section 37 of the Act that no employee or subcontractor of the Contractor does or omits to do any act which would be an offence for the Contractor to do or omit to do.
- 5.2 The Contractor's Health and Safety Programme shall be based on a risk assessment in respect of the hazards to health and safety of his employees and other persons under his control that are associated with or directly affected by the Contractor's activities in performing the contract work and shall establish precautionary measures as are reasonable and practical in protecting the safety and health of such employees and persons.
- 5.3 The Contractor shall cause a risk assessment contemplated in clause 5.2 above to be performed by a competent person, appointed in writing, before commencement of any Construction Work and reviewed during construction. The Risk Assessments shall form part of the Health and Safety programme to be applied on the site and shall include at least the following:
- (a) The identification of the risks and hazards that persons may be exposed to;
  - (b) the analysis and evaluation of the hazards identified;
  - (c) a documented Health and Safety Plan, including safe work procedures to mitigate, reduce or control the risks identified;
  - (d) a monitoring and review plan.
- 5.4 The Health and Safety Plan shall include full particulars in respect of: -
- (a) The safety management structure to be instituted on site or place of work and the names of the Contractor's health and safety representatives and members of safety committees where applicable;
  - (b) the safe working methods and procedures to be implemented to ensure the work is performed in compliance with the Act and Regulations;
  - (c) the safety equipment, devices and clothing to be made available by the Contractor to his employees;
  - (d) the site access control measures pertaining to health and safety to be implemented;
  - (e) the arrangements in respect of communication of health and safety related matters and incidents between the Contractor, his employees, subcontractors and the Technical Officer with particular reference to the reporting of incidents in compliance with Section 24 and General Administrative Regulation 8 of the Act and with the pertinent clause of the General Conditions of Contract forming part of the Contract and



- (f) the introduction of control measures for ensuring that the Safety Plan is maintained and monitored for the duration of the Contract.
- 5.4 The Health and Safety programme shall be subject to the Technical Officer's approval and he may, in consultation with the Contractor, order that additional and/or supplementary practical arrangements and procedures be implemented and maintained by the Contractor or that different working methods or safety equipment be used or safety clothes be issued which, in the Technical Officer's opinion, are necessary to ensure full compliance by the Contractor with his obligations as an employer in terms of the Act and Regulations. The Technical Officer or his deputy shall be allowed to attend meetings of the Contractor's safety committee as an observer.
- 5.5 The Contractor shall take reasonable steps to ensure that each subcontractor's Health and Safety Plan is implemented and maintained on the construction site. Provided that the steps taken, shall include periodic audits at intervals mutually agreed to between the them, but at least once every month.
- 5.6 The Contractor shall stop any subcontractor from executing any construction work, which is not in accordance with the Contractor's, and/or subcontractor's Health and Safety Plan for the site or which poses a threat to the health and safety of persons.
- 5.7 The Contractor shall ensure that a copy of the Health and Safety Plan is available on site for inspection by an inspector, Technical Officer, agent, subcontractor, employee, registered employee organisation, health and safety representative or any member of the health and safety committee.
- 5.8 The Contractor shall consult with the health and safety committee or, if no health and safety committee exists, with a representative group of employees, on the development, monitoring and review of the Risk Assessment.
- 5.9 The Contractor shall ensure that all employees under his control are informed, instructed and trained by a competent person regarding any hazard and the related work procedures before any work commences, and thereafter at such times as may be determined in the Risk Assessment.
- 5.10 The Contractor shall ensure that all subcontractors are informed regarding any hazard as stipulated in the Risk Assessment before any work commences, and thereafter at such times as may be determined in the Risk Assessment.
- 5.11 The Contractor shall ensure that all visitors to a construction site undergoes health and safety induction pertaining to the hazards prevalent on the site and shall be provided with the necessary personal protective equipment.

## 6. Fall Protection Plan

- 6.1 In the event of the risk and hazard identification, as required in terms of clause 5.3 of this Specification, revealing risks relating to working from an elevated position the contractor shall cause the designation of a competent person, responsible for the preparation of a fall protection plan;

6.2 The Contractor shall implement, maintain and monitor the fall protection plan for the duration of Contract. The Contractor shall also take such steps to ensure the continued adherence to the fall protection plan.

6.3 The fall protection plan shall include:-

- (a) A Risk Assessment of all work carried out from an elevated position;
- (b) the procedures and methods to address all the identified risks per location;
- (c) the evaluation of the employees physical and psychological fitness necessary to work at elevated positions;
- (d) the training of employees working from elevated positions; and
- (e) the procedure addressing the inspection, testing and maintenance of all fall protection equipment.

## 7. Hazards and Potential Hazardous Situations

The Contractor and the Technical Officer shall immediately notify one another of any hazardous or potentially hazardous situations which may arise during performance of the Contract by the Contractor or any subcontractor and, in particular, of such hazards as may be caused by the design, execution and/or location and any other aspect pertaining to the contract work.

## 8. Health and Safety File

- 8.1 The Contractor shall ensure that a health and safety file is opened and kept on site and shall include all documentation required as per the Act and applicable regulations, and made available to an inspector, the Technical Officer, or subcontractor upon request.
- 8.2 The Contractor shall ensure that a copy of the both his Health and Safety Plan as well as any subcontractor's Health and Safety Plan is available on request to an employee, inspector, contractor or the Technical Officer.
- 8.3 The Contractor shall hand over a consolidated health and safety file to the Technical Officer upon completion of the Construction Work and shall in addition to documentation mentioned in the Act and applicable Regulations include a record of all drawings, designs, materials used and other similar information concerning the completed structure.

**ANNEXURE 1****OCCUPATIONAL HEALTH AND SAFETY ACT, 1993****Regulation 3(1) of the Construction Regulations****NOTIFICATION OF CONSTRUCTION WORK**

- 
- 
- 1(a) Name and postal address of principal contractor:  
\_\_\_\_\_
- (b) Name and tel. no of principal contractor's contact person:  
\_\_\_\_\_
2. Principal contractor's compensation registration number: \_\_\_\_\_
- 3.(a) Name and postal address of client:  
\_\_\_\_\_
- (b) Name and tel no of client's contact person or agent:  
\_\_\_\_\_
- 4.(a) Name and postal address of designer(s) for the project:  
\_\_\_\_\_
- (b) Name and tel. no of designer(s) contact person:  
\_\_\_\_\_
5. Name and telephone number of principal contractor's construction supervisor on site appointed in terms of regulation 6(1).  
\_\_\_\_\_
6. Names of principal contractor's construction sub-ordinate supervisors on site appointed in terms of regulation 6(2).  
\_\_\_\_\_
7. Exact physical address of the construction site or site office:  
\_\_\_\_\_
8. Nature of the construction work:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
9. Expected commencement date: \_\_\_\_\_
10. Expected completion date: \_\_\_\_\_

11. Estimated maximum number of persons on the construction site: \_\_\_\_\_

12. Planned number of contractors on the construction site accountable to the principle contractor:

\_\_\_\_\_

13. Name(s) of contractors already chosen.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
**Principal Contractor**

\_\_\_\_\_  
**Date**

\_\_\_\_\_  
**Client**

\_\_\_\_\_  
**Date**

\* THIS DOCUMENT IS TO BE FORWARDED TO THE OFFICE OF THE DEPARTMENT OF LABOUR PRIOR TO COMMENCEMENT OF WORK ON SITE.

\* ALL PRINCIPAL CONTRACTORS THAT QUALIFY TO NOTIFY MUST DO SO EVEN IF ANOTHER PRINCIPAL CONTRACTOR ON THE SAME SITE HAD DONE SO PRIOR TO THE COMMENCEMENT OF WORK.

**"PREVIEW COPY ONLY"**

ANNEXURE 2

(COMPANY LETTER HEAD)

OCCUPATIONAL HEALTH AND SAFETY ACT, 1993 (ACT 85 OF 1993) :

SECTION/REGULATION: \_\_\_\_\_

REQUIRED COMPETENCY: \_\_\_\_\_

In terms of \_\_\_\_\_ I, \_\_\_\_\_

representing the Employer) do hereby appoint \_\_\_\_\_

As the Competent Person on the premises at \_\_\_\_\_

(physical address) to assist in compliance with the Act and the applicable Regulations.

Your designated area/s is/are as follows :-

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Date : \_\_\_\_\_

Signature :- \_\_\_\_\_

Designation :- \_\_\_\_\_

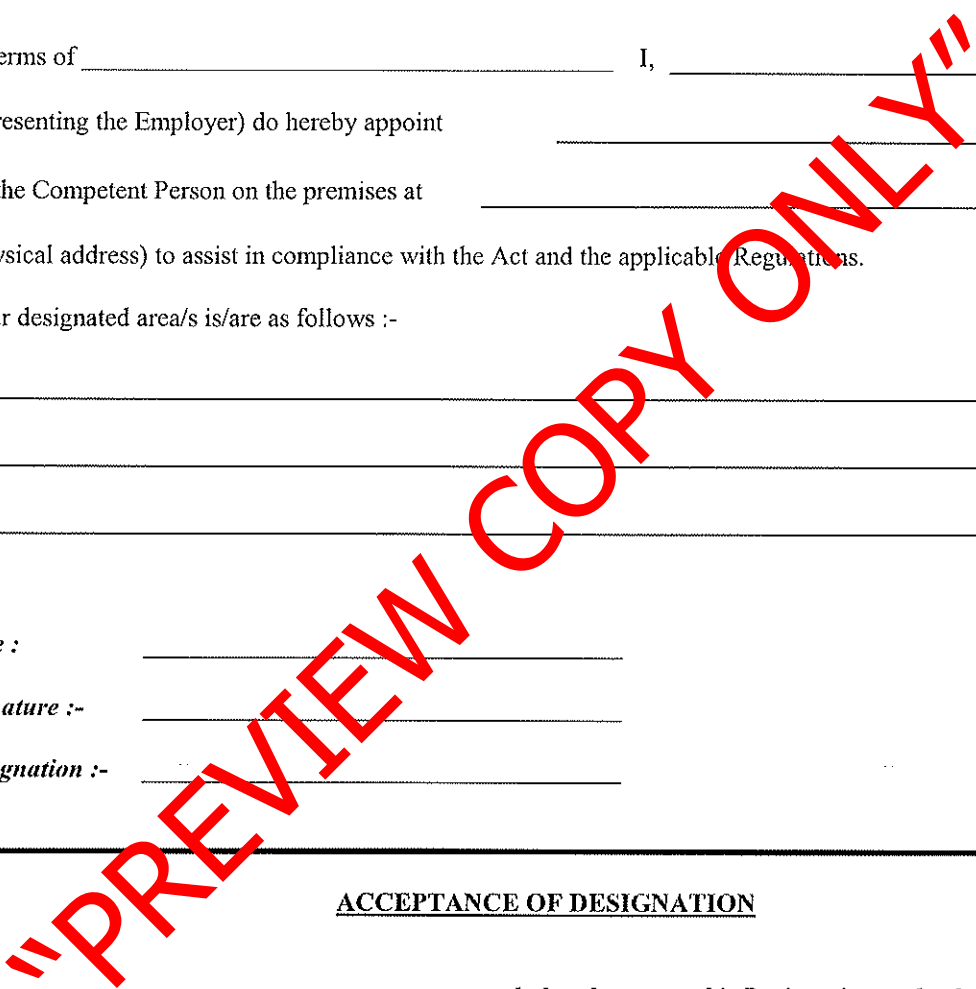
ACCEPTANCE OF DESIGNATION

I, \_\_\_\_\_ do hereby accept this Designation and acknowledge that I understand the requirements of this appointment.

Date : \_\_\_\_\_

Signature :- \_\_\_\_\_

Designation :- \_\_\_\_\_



**ANNEXURE 3****(COMPANY LETTER HEAD)****OCCUPATIONAL HEALTH AND SAFETY ACT, 1993 (ACT 85 OF 1993) :****DECLARATION**

In terms of the above Act I, \_\_\_\_\_ am personally assuming the duties and obligations as Chief Executive Officer, defined in Section 1 of the Act and in terms of Section 16(1), I will, as far as is reasonably practicable, ensure that the duties and obligations of the Employer as contemplated in the above Act are properly discharged.

*Signature :-* \_\_\_\_\_

*Date :* \_\_\_\_\_

**"PREVIEW COPY ONLY"**

**ANNEXURE 4**

**(LETTER HEAD OF BUSINESS DIVISION OR UNIT OF TRANSNET LIMITED)**

**SITE ACCESS CERTIFICATE**

Access to : \_\_\_\_\_ (Area)  
Name of Contractor/Builder :- \_\_\_\_\_  
Contract/Order No.: \_\_\_\_\_

The contract works site/area described above are made available to you for the carrying out of associated works

In terms of your contract/order with  
(company) \_\_\_\_\_

Kindly note that you are at all times responsible for the control and safety of the Works Site, and for persons under your control having access to the site.

As from the date hereof you will be responsible for compliance with the requirements of the Occupational Health and Safety Act, 1993 (Act 85 of 1993) as amended, and all conditions of the Contract pertaining to the site of the works as defined and demarcated in the contract documents including the plans of the site or work areas forming part thereof.

Signed : \_\_\_\_\_ Date : \_\_\_\_\_  
*TECHNICAL OFFICER*

**ACKNOWLEDGEMENT OF RECEIPT**

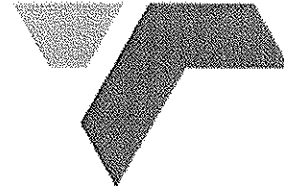
Name of Contractor/Builder :- \_\_\_\_\_ I,  
\_\_\_\_\_ do hereby acknowledge and accept the duties  
and obligations in respect of the Safety of the site/area of Work in terms of the Occupational Health and  
Safety Act; Act 85 of 1993.

Name : \_\_\_\_\_ Designation : \_\_\_\_\_

Signature : \_\_\_\_\_ Date : \_\_\_\_\_

**"PREVIEW COPY ONLY"**

**TRANSNET**



Transnet SOC Limited Registration Number 1990/00900/06

**TRANSNET SPECIFICATION**

**E7/1 - SPECIFICATION FOR GENERAL WORK AND  
WORKS ON, OVER, UNDER OR ADJACENT TO RAILWAY  
LINES AND NEAR HIGH VOLTAGE EQUIPMENT**

(This specification shall be used in network operator contracts)

**"PREVIEW COPY ONLY"**

Circulation Not Restricted

© This document as a whole is protected by copyright. The information herein is the sole property of Transnet SOC Ltd. It may not be used, disclosed or reproduced in part or in whole in any manner whatsoever, except with the written permission of and in a manner permitted by the proprietors.



## CONTENTS

<u>CLAUSE</u>	<u>HEADING</u>	<u>PAGE</u>
1.0	SCOPE	3
2.0	DEFINITIONS	3
<b>PART A - GENERAL SPECIFICATION</b>		
3.0	AUTHORITY OF OFFICERS OF TRANSNET	4
4.0	CONTRACTOR'S REPRESENTATIVES AND STAFF	4
5.0	OCCUPATIONS AND WORK PERMITS	4
6.0	SPEED RESTRICTIONS AND PROTECTION	5
7.0	ROADS ON THE NETWORK OPERATOR'S PROPERTY	5
8.0	CLEARANCES	5
9.0	STACKING OF MATERIAL	5
10.0	EXCAVATION, SHORING, DEWATERING AND DRAINAGE	5
11.0	FALSEWORK FOR STRUCTURES	6
12.0	PILING	6
13.0	UNDERGROUND SERVICES	6
14.0	BLASTING AND USE OF EXPLOSIVES	6
15.0	RAIL TROLLEYS	7
16.0	SIGNAL TRACK CIRCUITS	7
17.0	PENALTY FOR DELAYS TO TRAINS	7
18.0	SURVEY BEACONS AND PEGS	7
19.0	TEMPORARY LEVEL CROSSINGS	8
20.0	COMPLETION OF THE WORKS	8
21.0	PROTECTION OF PERSONS AND PROPERTY	9
22.0	INTERFERENCE WITH THE NETWORK OPERATOR'S ASSETS AND WORK ON OPEN LINES	10
23.0	ACCESS, RIGHTS-OF-WAY AND CAMPSITES	10
24.0	SUPERVISION	10
25.0	HOUSING OF EMPLOYEES	10
26.0	OPTICAL FIBRE CABLE ROUTES	10
<b>PART B - ADDITIONAL SPECIFICATION FOR WORK NEAR HIGH-VOLTAGE ELECTRICAL EQUIPMENT</b>		
27.0	GENERAL	11
28.0	WORK ON BUILDINGS OR FIXED STRUCTURES	11
29.0	WORK DONE ON OR OUTSIDE OF ROLLING STOCK, INCLUDING LOADING AND UNLOADING	11
30.0	USE OF EQUIPMENT	12
31.0	CARRYING AND HANDLING MATERIAL AND EQUIPMENT	12
32.0	PRECAUTIONS TO BE TAKEN WHEN ERECTING OR REMOVING POLES, ANTENNAE AND TREES ETC.	12
33.0	USE OF WATER	13
34.0	USE OF CONSTRUCTION PLANT	13
35.0	WORK PERFORMED UNDER DEAD CONDITIONS UNDER COVER OF A WORK PERMIT	13
36.0	TRACTION RETURN CIRCUITS IN RAILS	13
37.0	HIGH-VOLTAGE ELECTRICAL EQUIPMENT NOT MAINTAINED AND/OR OPERATED BY THE NETWORK OPERATOR	14

## 1.0 SCOPE

- 1.1 This specification covers the network operator's requirements for general work and works on, over, under or adjacent to railway lines and near high voltage equipment.

## 2.0 DEFINITIONS

The following definitions shall apply:

"Authorised Person" - A person whether an employee of the network operator or not, who has been specially authorised to undertake specific duties in terms of Transnet' publication Electrical Safety Instructions, and who holds a certificate or letter of authority to that effect.

"Barrier" Any device designed to restrict access to "live" high-voltage electrical equipment.

"Bond" - A short conductor installed to provide electrical continuity.

"Contractor" - Any person or organisation appointed by the network operator to carry out work on its behalf.

"Contract Supervisor" - The person or juristic person appointed by the network operator from time to time as the Contract Supervisor, to administer the Contractor's performance and execution of the Works according to the powers and rights held by and obligations placed upon the Contract Supervisor in terms of the Contract.

"Dead" - Isolated and earthed.

"Electrical Officer (Contracts)" - The person appointed in writing by the Project Manager in terms of this specification as the person who shall be consulted by the Contractor in all electrical matters to ensure that adequate safety precautions are taken by the Contractor.

"Executive Officer" - The person appointed by the network operator from time to time as the Executive Officer to act according to the rights and powers held by and obligations placed upon him in terms of the Contract.

"High-Voltage" - A voltage normally exceeding 1000 volts.

"Live" - A conductor is said to be "live" when it is at a potential different from that of the earth or any other conductor of the system of which it forms a part.

"Near" - To be in such a position that a person's body or the tools he is using or any equipment he is handling may come within 2 metres of "live" exposed high-voltage electrical equipment.

"Occupation" - An authorisation granted by the network operator for work to be carried out under specified conditions on, over, under or adjacent to railway lines.

"Occupation Between Trains" - An occupation during an interval between successive trains.

"Optical Fibre Cable" - Buried or suspended composite cable containing optical fibres used in:

- telecommunication networks for transmission of digital information and
- safety sensitive train operations systems.

"Project Manager" - As defined in the special conditions of the contract. The person or juristic person appointed by the network operator from time to time as the Project Manager, to administer the Contract according to the powers and rights held by and obligations placed upon him in terms of the Contract.

"Responsible Representative" - The responsible person in charge, appointed by a contractor, who has undergone specific training (and holds a certificate) to supervise (general or direct) staff under his control who perform general work or to work on, over, under or adjacent to railway lines and in the vicinity of high-voltage electrical equipment.

"Total Occupation" - An occupation for a period when trains are not to traverse the section of line covered by the occupation.

"Work on" - Work undertaken on or so close to the equipment that the specified working clearances to the "live" equipment cannot be maintained.

"Work Permit" - A combined written application and authority to proceed with work on or near dead electrical equipment.

"Works" - The contractual intent for the work to be done as defined in the contract at a defined work site.

**PART A - GENERAL SPECIFICATION****3.0 AUTHORITY OF OFFICERS OF TRANSNET**

- 3.1 The Contractor shall co-operate with the officers of the network operator and shall comply with all instructions issued and restrictions imposed with respect to the Works which bear on the existence and operation of the network operator's railway lines and high-voltage equipment.
- 3.2 Without limiting the generality of the provisions of clause 3.1, any duly authorised representative of the network operator, having identified himself, may stop the work if, in his opinion, the safe passage of trains or the safety of the network operator's assets or any person is affected. **CONSIDERATIONS OF SAFETY SHALL TAKE PRECEDENCE OVER ALL OTHER CONSIDERATIONS.**

**4.0 CONTRACTOR'S REPRESENTATIVES AND STAFF**

- 4.1 The Contractor shall nominate Responsible Representatives of whom at least one shall be available at any hour for call-out in cases of emergency. The Contractor shall provide the Contract Supervisor with the names, addresses and telephone numbers of the representatives.
- 4.2 The Contractor guarantees that he has satisfied himself that the Responsible Representative is fully conversant with this specification and that he shall comply with all his obligations in respect thereof.
- 4.3 The Contractor shall ensure that all contractor staff receives relevant awareness, educational and competence training regarding safety as prescribed.

**5.0 OCCUPATIONS AND WORK PERMITS**

- 5.1 Work to be done during total occupation or during an occupation between trains or under a work permit shall be done in a manner decided by the Contract Supervisor and at times to suit the network operator requirements.
- 5.2 The Contractor shall organise the Works in a manner which will minimise the number and duration of occupations and work permits required.
- 5.3 The network operator will not be liable for any financial or other loss suffered by the Contractor arising from his failure to complete any work scheduled during the period of an occupation or work permit.
- 5.4 The Contractor shall submit to the Contract Supervisor, in writing, requests for occupations or work permits together with details of the work to be undertaken, at least 21 days before they are required. The network operator does not undertake to grant an occupation or work permit for any particular date, time or duration.
- 5.5 The network operator reserves the right to cancel any occupation or work permit at any time before or during the period of occupation or work permit. If, due to cancellation or change in date or time, the Contractor is not permitted to start work under conditions of total occupation or work permit at the time arranged, all costs caused by the cancellation shall be born by the Contractor except as provided for in clauses 5.6 to 5.8.
- 5.6 When the Contractor is notified less than 2 hours before the scheduled starting time that the occupation or work permit is cancelled, he may claim reimbursement of his direct financial losses caused by the loss of working time up to the time his labour and plant are employed on other work, but not exceeding the period of the cancelled occupation or work permit.
- 5.7 When the Contractor is notified less than 2 hours before the scheduled starting time, or during an occupation or work permit, that the duration of the occupation or work permit is reduced, he may claim reimbursement of his direct financial losses caused by the loss of working time due to the reduced duration of the occupation or work permit.
- 5.8 Reimbursement of the Contractor for any loss of working time in terms of clause 5.6 and 5.7, shall be subject to his claims being submitted within 14 days of the event with full details of labour and plant involved, and provided that the Contract Supervisor certifies that no other work on which the labour and plant could be employed was immediately available.
- 5.9 Before starting any work for which an occupation has been arranged, the Contractor shall obtain from the Contract Supervisor written confirmation of the date, time and duration of the occupation.
- 5.10 Before starting any work for which a work permit has been arranged, the Responsible Representative shall read and sign portion C of the Work Permit, signifying that he is aware of the work boundaries within which work may be undertaken. After the work for which the permit was granted has been completed, or when the

work permit is due to be terminated, or if the permit is cancelled after the start, the same person who signed portion C shall sign portion D of the Work Permit, thereby acknowledging that he is aware that the electrical equipment is to be made "live". The Contractor shall advise all his workmen accordingly.

## 6.0 SPEED RESTRICTIONS AND PROTECTION

- 6.1 When speed restrictions are imposed by the network operator because of the Contractor's activities, the Contractor shall organise and carry out his work so as to permit the removal of the restrictions as soon as possible.
- 6.2 When the Contract Supervisor considers protection to be necessary the Contractor shall, unless otherwise agreed, provide all protection including flagmen, other personnel and all equipment for the protection of the network operator's and the Contractor's personnel and assets, the public and including trains.
- 6.2.1 The network operator will provide training free of charge of the Contractor's flagmen and other personnel performing protection duties. The Contractor shall consult with the Contract Supervisor, whenever he considers that protection will be necessary, taking into account the minimum permissible clearances set out in the Manual for Track Maintenance (Document no. BBB0481):
- Drawing no. BE-97 Sheet 1: Horizontal Clearances: 1065mm gauge (Annexure 1 sheet 1)
  - Drawing no. BE-97 Sheet 2: Vertical Clearances: 1065mm gauge (Annexure 1 sheet 2)
  - Drawing no. BE-97 Sheet 3: Clearances: Platform (Annexure 1 sheet 3)
  - Drawing no. BE-97 Sheet 5: Clearances: 610mm Gauge (Annexure 1 sheet 5)
- 6.3 The Contractor shall appoint a Responsible Representative to receive and transmit any instruction which may be given by the network operator personnel providing protection.

## 7.0 ROADS AND ROADS ON THE NETWORK OPERATOR'S PROPERTY

- 7.1 The Contractor shall take every reasonable precaution to prevent damage to any roads or bridges used to obtain access to the site, and shall select routes, use vehicles, and restrict loads so that any extraordinary traffic as may arise from the moving of plant or material to or from the site shall be limited as far as is reasonably possible.
- 7.2 The Contractor shall not occupy or interfere in any way with the free use of any public or private road, right-of-way, path or street unless the Contract Supervisor has obtained the approval of the road authority concerned.

## 8.0 CLEARANCES

- 8.1 No temporary works shall encroach on the appropriate minimum clearances set out in the Manual for Track Maintenance (Document no. BBB0481):
- Drawing no. BE-97 Sheet 1: Horizontal Clearances: 1065mm gauge (Annexure 1 sheet 1)
  - Drawing no. BE-97 Sheet 2: Vertical Clearances: 1065mm gauge (Annexure 1 sheet 2)
  - Drawing no. BE-97 Sheet 3: Clearances: Platform (Annexure 1 sheet 3)
  - Drawing no. BE-97 Sheet 5: Clearances: 610mm Gauge (Annexure 1 sheet 5)

## 9.0 STACKING OF MATERIAL

- 9.1 The Contractor shall not stack any material closer than 3m from the centre line of any railway line without prior approval of the Contract Supervisor.

## 10.0 EXCAVATION, SHORING, DEWATERING AND DRAINAGE

- 10.1 Unless otherwise approved by the Contract Supervisor any excavation adjacent to a railway line shall not encroach on the hatched area shown in Figure 1.

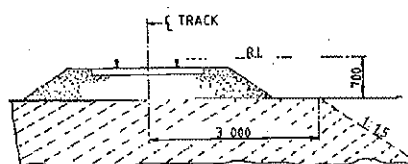


Fig. 1

- 10.2 The Contractor shall provide, at his own cost any shoring, dewatering or drainage of any excavation unless otherwise stipulated elsewhere in the Contract.
- 10.3 Where required by the Contract Supervisor, drawings of shoring for any excavation under or adjacent to a railway line shall be submitted and permission to proceed, obtained before the excavation is commenced.
- 10.4 The Contractor shall prevent ingress of water to the excavation but where water does enter, he shall dispose of it as directed by the Contract Supervisor.
- 10.5 The Contractor shall not block, obstruct or damage any existing drains either above or below ground level unless he has made adequate prior arrangements to deal with drainage.

#### 11.0 FALSEWORK FOR STRUCTURES

- 11.1 Drawings of falsework for the construction of any structure over, under or adjacent to any railway line shall be submitted to the Contract Supervisor and his permission to proceed obtained before the falsework is erected. Each drawing shall be given a title and a distinguishing number and shall be signed by a registered professional engineer certifying that he has checked the design of the falsework and that the drawings are correct and in accordance with the design.
- 11.2 After the falsework has been erected and before any load is applied, the Contractor shall submit to the Contract Supervisor a certificate signed by a registered professional engineer certifying that he has checked the falsework and that it has been erected in accordance with the drawings. Titles and numbers of the drawings shall be stated in the certificate. Notwithstanding permission given by the Contract Supervisor to proceed, the Contractor shall be entirely responsible for the safety and adequacy of the falsework.

#### 12.0 PILING

- 12.1 The Contract Supervisor will specify the conditions under which piles may be installed on the network operator's property.

#### 13.0 UNDERGROUND SERVICES

- 13.1 No pegs or stakes shall be driven or any excavation made before the Contractor has established that there are no underground services which may be damaged thereby.
- 13.2 Any damage shall be reported immediately to the Contract Supervisor, or to the official in charge at the nearest station, or to the traffic controller in the case of centralised traffic control.

#### 14.0 BLASTING AND USE OF EXPLOSIVES

- 14.1 When blasting within 50m of a railway line, the Contractor shall observe the requirements stipulated in this specification.
- 14.2 No blasting shall be carried out except with the prior written permission of the Contract Supervisor and under such conditions as he may impose.
- 14.3 On electrified lines the Contractor shall also obtain the permission of the Electrical Officer (Contracts) before blasting and shall give at least 21 days notice of his intention to blast. No blasting shall be done in the vicinity of electrified lines unless a member of the network operator's electrical personnel is present.
- 14.4 The Contractor shall arrange for the supply, transport storage and use of explosives.
- 14.5 The Contractor shall have labour, tools and plant, to the satisfaction of the Contract Supervisor, available on the site to clear immediately any stones or debris deposited on the track or formation by blasting, and to repair any damage to the track or formation immediately after blasting. Repairs to the track shall be carried out only under the supervision of a duly authorised representative of the network operator.
- 14.6 The Contractor shall notify the Contract Supervisor of his intention to blast at least 21 days before the commencement of any blasting operations.
- 14.7 Before any blasting is undertaken, the Contractor and the Contract Supervisor shall jointly examine and measure up any buildings, houses or structures in the vicinity of the proposed blasting to establish the extent of any existing cracking or damage to such structures, etc. The Contractor, shall, subject to the provisions stipulated in the Contract Insurance Policy, make good any deterioration of such buildings, houses, or structures, which, in the opinion of the Contract Supervisor, was directly caused by the blasting.
- 14.8 After completion of the blasting the Contractor shall obtain a written clearance from each landowner in

the vicinity of the blasting operations to the effect that all claims for compensation in respect of damage caused by the blasting operations to their respective properties, have been settled.

14.9 The Contractor shall provide proof that he has complied with the provisions of clauses 10.17.1 to 10.17.4 of the Explosives Regulations (Act 26 of 1956 as amended).

14.10 Blasting within 500m of a railway line will only be permitted during intervals between trains. A person appointed by the Contract Supervisor, assisted by flagmen with the necessary protective equipment, will be in communication with the controlling railway station.

Only this person will be authorised to give the Contractor permission to blast, and the Contractor shall obey his instructions implicitly regarding the time during which blasting may take place.

14.11 The flagmen described in clause 14.10, where provided by the network operator, are for the protection of trains and the network operator's property only, and their presence does not relieve the Contractor in any manner of his responsibilities in terms of Explosives Act or Regulations, or any obligation in terms of this Contract.

14.12 The person described in clause 14.10 will record in a book provided and retained by the network operator, the dates and times:-

(i) when each request is made by him to the controlling station for permission to blast;

(ii) when blasting may take place;

(iii) when blasting actually takes place; and

(iv) when he advises the controlling station that the line is safe for the passage of trains.

14.13 Before each blast the Contractor shall record in the same book, the details of the blast to be carried out. The person appointed by the Contract Supervisor and the person who will do the blasting shall both sign the book whenever an entry described in clause 14.12 is made.

## 15.0 RAIL TROLLEYS

15.1 The use of rail trolleys or trestle trolleys on a railway line for working on high voltage equipment will be permitted only if approved by the Contract Supervisor and under the conditions stipulated by him.

15.2 All costs in connection with trolley working and any train protection services requested by the Contractor shall, be borne by the Contractor, unless otherwise agreed.

## 16.0 SIGNAL TRACK CIRCUITS

16.1 Where signal track circuits are installed, the Contractor shall ensure that no material capable of conducting an electrical current makes contact between rails of railway line/lines.

16.2 No signal connections on track-circuited tracks shall be severed without the Contract Supervisor's knowledge and consent.

## 17.0 PENALTY FOR DELAYS TO TRAINS

17.1 If any trains are delayed by the Contractor and the Contract Supervisor is satisfied that the delay was avoidable, a penalty will be imposed on the Contractor as stipulated in the contract, for the period and number of trains delayed.

## 18.0 SURVEY BEACONS AND PEGS

18.1 The Contractor shall not on any account move or damage any beacon, bench mark, reference mark, signal or trigonometrical station in the execution of the Works without the written approval of the Contract Supervisor.

Should the Contractor be responsible for any such occurrence, he shall report the circumstances to the Contract Supervisor who will arrange with the Director-General of Surveys for replacement of the beacon or mark at the cost of the Contractor.

18.2 The Contractor shall not move or damage any cadastral or mining beacon without the written approval of the Contract Supervisor and before it has been referenced by a registered land surveyor. Any old boundary beacon, which becomes an internal beacon on creation of new boundaries, shall not be moved without the written approval of the Contract Supervisor.

Should the Contractor move or damage any cadastral or mining beacon without authority, he shall be responsible for having it replaced, at his cost, by a land surveyor.

- 18.3 The Contractor shall preserve all pegs and bench marks. Such survey points shall not be removed without the written approval of the Contract Supervisor. Should any peg or benchmark be removed without authority, the Contract Supervisor will arrange for its replacement and the cost will be recovered from the Contractor. No claim will be considered for delay in replacing any such peg or bench mark. Each peg replaced shall be checked by the Contractor.
- 18.4 Where a new boundary has been established, beacons on the fence line shall not be disturbed, and fence posts or anchors may not be placed or excavations made within 0,6 m of any beacon without the prior written approval of the Contract Supervisor.

## 19.0 TEMPORARY LEVEL CROSSINGS

- 19.1 The Contract Supervisor may, on request of the Contractor, and if necessary for the purpose of execution of the Works, permit the construction of a temporary level crossing over a railway a line at a position approved by the Contract Supervisor and at the Contractor's cost. The period for which the temporary level crossing is permitted will be at the discretion of the Contract Supervisor.
- 19.2 The Contractor will provide protection and supervise the construction of the road over the track(s) and within the railway servitude at the level crossing, as well as the erection of all road signs and height gauges. All cost to be borne by the applicant.

The Contractor shall exercise extreme caution in carrying out this work, especially in respect of damage to tracks, services, overhead power and communications routes and prevent contact with "live" overhead electrical equipment.

Unless otherwise agreed, the Contractor will provide the service deviations or alterations to the network operator's track-, structure-, drainage-, electrical-, tele-communications- and train authorisation systems to accommodate the level crossing.

- 19.3 The Contractor shall take all necessary steps including the provision of gates, locks and, where necessary, watchmen to restrict the use of the temporary level crossing to himself and his employees, his subcontractors and their employees, the staff of the network operator and to such other persons as the Contract Supervisor may permit and of whose identity the Contractor will be advised. If so ordered by the Contract Supervisor, the Contractor shall provide persons to control road traffic using the temporary level crossing. Such persons shall stop all road traffic when any approaching train is within seven hundred and fifty (750) metres of the temporary level crossing, and shall not allow road traffic to proceed over it until the lines are clear.
- 19.4 The Contractor shall maintain the temporary level crossing within the railway servitude in good condition for the period it is in use. A temporary agreement with the road authority to be concluded for the maintenance of the level crossing outside the railway servitude.
- 19.5 When the temporary level crossing is no longer required by the Contractor, or permitted by the network operator, the Contractor shall at his own cost remove it and restore the site and the network operator's track-, structure-, drainage-, electrical-, tele-communications- and train authorisation systems to its original condition. Work over the tracks and within the railway servitude will be supervised by the network operator.

## 20.0 COMPLETION OF THE WORKS

- 20.1 On completion of the works, the Contractor shall remove all the remaining construction plant and material from the site, other than material which is the property of the network operator, and leave the site in a clean, neat and tidy condition. If material and plant is required for the liability and maintenance period the Contract supervisor must authorise it's retention on site.

## 21.0 PROTECTION OF PERSONS AND PROPERTY

- 21.1 The Contractor shall provide and maintain all lights, guards, barriers, fencing and watchmen when and where necessary or as required by the Contract Supervisor or by any statutory authority, for the protection of the Works and for the safety and convenience of the public.

Red, yellow, green or blue lights may not be used by the Contractor as they can be mistaken for signals. Red, yellow, green or white flags shall only be used for protection by the Contractor. Within the precincts of a port the Contractor shall obtain the permission of the Port Captain before installing any light.

- 21.2 The Contractor shall take all the requisite measures and precautions during the course of the Works to:
- (i) protect the public and property of the public,
  - (ii) protect the property and workmen of both the network operator and the Contractor,
  - (iii) avoid damage to and prevent trespass on adjoining properties, and
  - (iv) ensure compliance with any instruction issued by the Contract Supervisor or other authorised person, and with any stipulation embodied in the contract documents which affects the safety of any person or thing.
- 21.3 The network operator will provide, at its own cost, protection for the safe working of trains during such operations as the Contract Supervisor may consider necessary. Protection by the network operator for any purpose whatsoever, does not absolve the Contractor of his responsibilities in terms of the Contract.
- 21.4 The Contractor shall take all precautions and appoint guards, watchmen and compound managers for prevention of disorder among and misconduct by the persons employed on the Works and by any other persons, whether employees or not, on the work site and for the preservation of the peace and protection of persons and property in the direct neighbourhood. Any relocation of camps because of disorder shall be at the Contractor's expense.
- 21.5 All operations necessary for the execution of the Works, including the provision of any temporary work and camping sites, shall be carried out so as not to cause veld fires, ground and environmental pollution, soil erosion or restriction of or interference with streams, furrows, drains and water supplies.
- If the original surface of the ground is disturbed in connection with the Works, it shall be made good by the Contractor to the satisfaction of the land owner, occupier or responsible authority.
- 21.6 The Contractor shall take all reasonable steps to minimise noise and disturbance when carrying out the Works, including work permitted outside normal working hours.
- 21.7 Dumping of waste or excess materials by the Contractor shall, in urban areas, be done under the direction and control of, and at sites made available by the local authority. Dumping outside local authority boundaries shall be done only with the express permission and under the direction and control of the Contract Supervisor.
- 21.8 The Contractor shall comply with environmental protection measures and specifications stipulated by the Contract Supervisor and/or local and environmental authorities.
- 22.0 INTERFERENCE WITH THE NETWORK OPERATOR'S ASSETS AND WORK ON OPEN LINES**
- 22.1 The Contractor shall not interfere in any manner whatsoever with an open line, nor shall he carry out any work or perform any act, which affects the security, use or safety of an open line except with the authority of the Contract Supervisor and in the presence of a duly authorised representative of the network operator.
- 22.2 The Contractor shall not carry out any work or operate any plant, or place any material whatsoever nearer than three metres from the centre line of any open line except with the written permission of the Contract Supervisor and subject to such conditions as he may impose.
- 22.3 Care must be taken not to interfere with or damage any services such as overhead wire routes, cables or pipes and optical fibre cable, except as provided for the work specified. The Contractor will be held responsible for any damage to or interruption of such services arising from any act or omission on his part or of any of his employees, or persons engaged by him on the Works. The cost of repairing, replacing or restoring the services, as well as all other costs arising from any damage to services, shall be borne by, and will be recovered from the Contractor.
- 22.4 Authority granted by the Contract Supervisor and the presence of an authorised representative of the network operator in terms hereof, shall not relieve the Contractor of his duty to comply with this specification.
- 23.0 ACCESS, RIGHTS-OF-WAY AND CAMPSITES**
- 23.1 Where entry onto the network operator's property is restricted, permission to enter will be given only for the purpose of carrying out the Works and will be subject to the terms and conditions laid down by the network operator.
- 23.2 The Contractor shall arrange for campsites, workplaces and access thereto as well as for any right-of-



way over private property to the site of the Works, and for access within the boundaries of the network operator's property. The owners of private property to be traversed shall be approached and treated with tact and courtesy by the Contractor, who shall, if necessary, obtain a letter of introduction to such property owners from the Contract Supervisor.

The Contractor shall be responsible for the closing of all gates on roads and tracks used by him or his employees. Except with the prior approval of the Contract Supervisor and the owner or occupier of any private land to be traversed, the Contractor shall not cut, lower, damage, remove or otherwise interfere with any fence or gate which is either on the network operator's property or on private property and which restricts access to the Works. Where such approval has been given, the Contractor shall prevent entry of animals or unauthorised persons onto the network operator's or private property, and shall make the fences safe against trespass at the close of each day's work.

- 23.3 The Contractor shall take all reasonable steps to confine the movement of vehicles and plant to the approved right-of-way to minimise damage to property, crops and natural vegetation.
- 23.4 When access is no longer required, and before completion of the Works, the Contractor shall repair, restore or replace any fence or gate damaged during execution of the Works to the satisfaction of the Contract Supervisor and shall furnish the Contract Supervisor with a certificate signed by the owner and occupier of land over which he has gained access to a campsite, work yard and the Works, certifying that the owner and occupier have no claim against the Contractor or the network operator arising from the Contractor's use of the land. Should the Contractor be unable to obtain the required certificate, he shall report the circumstances to the Contract Supervisor.

#### 24.0 SUPERVISION

- 24.1 The Contract Supervisor will provide overall technical superintendence of the Works, and may direct the Contractor in terms of the provisions of the Contract in respect of any measures which the Contract Supervisor may require for the operations of the network operator, the safety of trains, property and workmen of the network operator, and for the safety of other property and persons. The Contractor shall carry out the directions of the Contract Supervisor. The superintendence exercised by the Contract Supervisor, including any agreement, approval, refusal or withdrawal of any approval given, shall not relieve the Contractor of any of his duties and liabilities under the Contract, and shall not imply any assumption by the network operator or by the Contract Supervisor of the legal and other responsibilities of the Contractor in carrying out the Works.
- 24.2 The Contract Supervisor may delegate to any deputy or other person, any of his duties or functions under the Contract. On receiving notice in writing of such delegation, the Contractor shall recognise and obey the deputy or person to whom any such duties or functions have been delegated as if he were the Contract Supervisor.
- 24.3 The Contractor shall exercise supervision over the Works at all times when work is performed or shall be represented by an agent having full power and authority to act on behalf of the Contractor. Such agent shall be competent and responsible, and have adequate experience in carrying out work of a similar nature to the Works, and shall exercise personal supervision on behalf of the Contractor. The Contract Supervisor shall be notified in writing of such appointment which will be subject to his approval.
- 24.4 The Contractor or his duly authorised agent shall be available on the site at all times while the Works are in progress to receive the orders and directions of the Contract Supervisor.

#### 25.0 HOUSING OF EMPLOYEES

- 25.1 The Contractor shall, where necessary, make his own arrangements for suitable housing of his employees. Where temporary housing is permitted by the Contract Supervisor on any part of the site, the Contractor shall provide suitable sanitation, lighting and potable water supplies in terms of the requirements of the local authority or the current network operator's specification; Minimum Communal Health Requirements in Areas outside the Jurisdiction of a Local Authority - E.4B, as applicable.
- 25.2 Fouling the area inside or outside the network operator's boundaries shall be prevented. The Contractor will be called upon by the Contract Supervisor to dispose of any foul or waste matter generated by the Contractor.

#### 26.0 OPTICAL FIBRE CABLE ROUTES

- 26.1 The Contractor shall not handle, impact, move or deviate any optical fibre cable without prior approval.
- 26.2 Works that in any way affect the optical fibre cable requires prior approval from the Contract Supervisor

---

who will determine the work method and procedures to be followed.

**"PREVIEW COPY ONLY"**

**PART B - SPECIFICATION FOR WORK NEAR HIGH-VOLTAGE ELECTRICAL EQUIPMENT****27.0 GENERAL**

27.1 This specification is based on the contents of Transnet's publication ELECTRICAL SAFETY INSTRUCTIONS, as amended, a copy of which will be made available on loan to the Contractor for the duration of the contract.

These instructions apply to all work near "live" high-voltage equipment maintained and/or operated by the network operator, and the onus rests on the Contractor to ensure that he obtains a copy.

27.2 This specification must be read in conjunction with and not in lieu of the Electrical Safety Instructions.

27.3 The Contractor's attention is drawn in particular to the contents of Part I, Sections 1 and 2 of the Electrical Safety Instructions.

27.4 The Electrical Safety Instructions cover the minimum safety precautions which must be taken to ensure safe working on or near high-voltage electrical equipment, and must be observed at all times. Should additional safety measures be considered necessary because of peculiar local conditions, these may be ordered by and at the discretion of the Electrical Officer (Contracts).

27.5 The Contractor shall obtain the approval of the Electrical Officer (Contracts) before any work is done which causes or could cause any portion of a person's body or the tools he is using or any equipment he is handling, to come within 3 metres of any "live" high-voltage equipment.

27.6 The Contractor shall regard all high-voltage equipment as "live" unless a work permit is in force.

27.7 Safety precautions taken or barriers erected shall comply with the requirements of the Electrical Officer (Contracts), and shall be approved by him before the work to be protected is undertaken by the Contractor. The Contractor shall unless otherwise agreed, bear the cost of the provision of the barriers and other safety precautions required, including the attendance of the network operator's staff where this is necessary.

27.8 No barrier shall be removed unless authorised by the Electrical Officer (Contracts).

**28.0 WORK ON BUILDINGS OR FIXED STRUCTURES**

28.1 Before any work is carried out measurements are taken on any part of a building, fixed structure or earthworks of any kind above ground level situated within 3 metres of "live" high-voltage equipment, the Electrical Officer (Contracts) shall be consulted to ascertain the conditions under which the work may be carried out.

28.2 No barrier erected to comply with the requirements of the Electrical Officer (Contracts) shall be used as temporary staging or shuttering for any part of the Works.

28.3 The shuttering for bridge piers, abutments, retaining walls or parapets adjacent to or over any track may be permitted to serve as a barrier, provided that it extends at least 2,5 metres above any working level in the case of piers, abutments and retaining walls and 1,5 metres above any working level in the case of parapets.

**29.0 WORK DONE ON OR OUTSIDE OF ROLLING STOCK, INCLUDING LOADING OR UNLOADING**

29.1 No person may stand, climb or work, whilst on any platform, surface or foothold:

29.1.1 higher than the normal unrestricted access way, namely -

29.1.1.1 external walkways on diesel, steam and electric locomotives, steam heat vans, etc. and

29.1.1.2 walkways between coaches and locomotives.

29.1.2 of restricted access ways in terms of the Electrical Safety Instructions namely -

29.1.2.1 the floor level of open wagons

29.1.2.2 external walkways or decks of road-rail vehicles, on-track maintenance machines and material trains.

29.1.3 Unauthorised staff working on these platforms must be directly supervised by duly authorised persons in terms of clause 607.1.3 of the Electrical Safety Instructions. These persons must attend the relevant electrical safety module training. A letter of training must then be issued by an accredited training authority. A Category C Certificate of Authority must be obtained from the

local depot examining officer.

- 29.2 When in the above positions no person may raise his hands or any equipment he is handling above his head.
- 29.3 In cases where the Contractor operates his own rail mounted equipment, he shall arrange for the walkways on this plant to be inspected by the Electrical Officer (Contracts) and approved, before commencement of work.
- 29.4 The handling of long lengths of material such as metal pipes, reinforcing bars, etc should be avoided, but if essential they shall be handled as nearly as possible in a horizontal position below head height.
- 29.5 The Responsible Representative shall warn all persons under his control of the danger of being near "live" high-voltage equipment, and shall ensure that the warning is fully understood.
- 29.6 Where the conditions in clauses 30.1 to 30.4 cannot be observed the Electrical Officer (Contracts), shall be notified. He will arrange for suitable Safety measures to be taken. The Electrical Officer (Contracts), may in his discretion and in appropriate circumstances, arrange for a suitable employee of the Contractor to be specially trained by the network operator and at the Contractor's cost, as an Authorised Person to work closer than 3 metres from "live" overhead conductors and under such conditions as may be imposed by the senior responsible electrical engineer of the network operator.

### **30.0 USE OF EQUIPMENT**

#### **30.1 Measuring Tapes and Devices**

- 30.1.1 Measuring tapes may be used near "live" high-voltage equipment provided that no part of any tape or a person's body comes within 3 metres of the "live" equipment.
- 30.1.2 In windy conditions the distance shall be increased to ensure that if the tape should fall it will not be blown nearer than 3 metres from the "live" high-voltage equipment.
- 30.1.3 Special measuring devices longer than 2 metres such as survey sticks and rods may be used if these are of non-conducting material and approved by the responsible Electrical Engineer of the network operator, but these devices must not be used within 3 metres of "live" high-voltage equipment in rainy or wet conditions.
- 30.1.4 The assistance of the Electrical Officer (Contracts) shall be requested when measurements within the limits defined in clauses 31.1.1 to 31.1.3 are required.
- 30.1.5 The restrictions described in 31.1.1 to 31.1.3 do not apply on a bridge deck between permanent parapets nor in other situations where a barrier effectively prevents contact with the "live" high-voltage equipment.

#### **30.2 Portable Ladders**

- 30.2.1 Any type of portable ladder longer than 2 metres may only be used near "live" high-voltage equipment under the direct supervision of the Responsible Representative. He shall ensure that the ladder is always used in such a manner that the distance from the base of the ladder to any "live" high-voltage equipment is greater than the fully extended length of the ladder plus 3 metres. Where these conditions cannot be observed, the Electrical Officer (Contracts) shall be advised, and he will arrange for suitable safety measures to be taken.

### **31.0 CARRYING AND HANDLING MATERIAL AND EQUIPMENT**

- 31.1 Pipes, scaffolding, iron sheets, reinforcing bars and other material which exceeds 2 metres in length shall be carried completely below head height near "live" high-voltage equipment. For maximum safety such material should be carried by two or more persons so as to maintain it as nearly as possible in a horizontal position. The utmost care must be taken to ensure that no part of the material comes within 3 metres of any "live" high-voltage equipment.
- 31.2 Long lengths of wire or cable shall never be run out in conditions where a part of a wire or cable can come within 3 metres of any "live" high-voltage equipment unless the Electrical Officer (Contracts) has been advised and has approved appropriate safety precautions.
- 31.3 The presence of overhead power lines shall always be taken account of especially when communications lines or cables or aerial cables, stay wires, etc. are being erected above ground level.

### **32.0 PRECAUTIONS TO BE TAKEN WHEN ERECTING OR REMOVING POLES, ANTENNAE, TREES ETC.**

- 32.1 A pole may be handled for the purpose of erection or removal near high-voltage equipment under the following conditions:

(i) If the distance between the point at which the pole is to be erected or removed and the nearest "live" high-voltage equipment is more than the length of the pole plus 3 metres, the work shall be supervised by the Responsible Representative.

(ii) If the distance described in (i) is less than the length of the pole plus 3 metres, the Electrical Officer (Contracts) shall be consulted to arrange for an Authorised Person to supervise the work and to ensure that the pole is earthed where possible. The pole shall be kept in contact with the point of erection, and adequate precautions shall be taken to prevent contact with "live" high-voltage equipment.

32.2 The cost of supervision by an Authorised Person and the provision of earthing shall, unless otherwise agreed, be borne by the Contractor.

32.3 The provisions of clauses 33.1 and 33.2 shall also apply to the erection or removal of columns, antennae, trees, posts, etc.

### 33.0 USE OF WATER

33.1 No water shall be used in the form of a jet if it can make contact with any "live" high-voltage equipment or with any person working on such equipment.

### 34.0 USE OF CONSTRUCTION PLANT

34.1 "Construction plant" entails all types of plant including cranes, piling frames, boring machines, excavators, draglines, dewatering equipment and road vehicles with or without lifting equipment.

34.2 When work is being undertaken in such a position that it is possible for construction plant or its load to come within 3 metres of "live" high-voltage equipment, the Electrical Officer (Contracts) shall be consulted. He will arrange for an Authorised Person to supervise the work and to ensure that the plant is adequately earthed. The Electrical Officer (Contracts) will decide whether further safety measures are necessary.

34.3 The cost of any supervision by an Authorised Person and the provision of earthing shall, unless otherwise agreed, be borne by the Contractor.

34.4 When loads are handled by cranes, non-metallic rope hand lines shall be used, affixed to such loads so as to prevent their swinging and coming within 3 metres of "live" high-voltage equipment.

34.5 Clauses 35.1 to 35.4 shall apply *mutatis mutandis* to the use of maintenance machines of any nature.

### 35.0 WORK PERFORMED UNDER DEAD CONDITIONS UNDER COVER OF A WORK PERMIT

35.1 If the Responsible Representative finds that the work cannot be done in safety with the high-voltage electrical equipment "live", he shall consult the Electrical Officer (Contracts) who will decide on the action to be taken.

35.2 If a work permit is issued the Responsible Representative shall-

(i) before commencement of work ensure that the limits within which work may be carried out have been explained to him by the Authorised Person who issued the permit to him, and that he fully understands these limits;

(ii) sign portion C of the permit before commencement of work;

(iii) explain to all persons under his control the limits within which work may be carried out, and ensure that they fully understand these limits;

(iv) care for the safety of all persons under his control whilst work is in progress; and

(v) withdraw all personnel under his control from the equipment on completion of the work before he signs portion D of the work permit.

### 36.0 TRACTION RETURN CIRCUITS IN RAILS

36.1 DANGEROUS CONDITIONS CAN BE CREATED BY REMOVING OR SEVERING ANY BOND.

36.2 Broken rails with an air gap between the ends, and joints at which fishplates are removed under "broken bond" conditions, are potentially lethal. The rails on either side of an air gap between rail ends on electrified lines shall not be touched simultaneously until rendered safe by the network operator personnel.

36.3 The Contractor shall not break any permanent bonds between rails or between rails and any structure. He shall give the Contract Supervisor at least 7 days written notice when removal of such bonds is necessary.

36.4 No work on the track which involves interference with the traction return rail circuit either by cutting or removing the rails, or by removal of bonds shall be done unless the Electrical Officer (Contracts) is consulted. He will take such precautions as may be necessary to ensure continuity of the return circuit before permitting the work to be commenced.

**37.0 HIGH-VOLTAGE ELECTRICAL EQUIPMENT NOT MAINTAINED AND/OR OPERATED BY THE NETWORK OPERATOR**

Where the work is undertaken on or near high-voltage electrical equipment which is not maintained and/or operated by the network operator, the Occupational Health and Safety Act No. 85 of 1993, and Regulations and Instructions, or the Mines Health and Safety Act (Act 29 of 1996), shall apply.

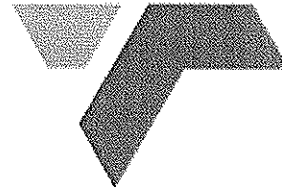
Such equipment includes:-

- (i) Eskom and municipal equipment;
- (ii) The Contractor's own power supplies; and
- (iii) Electrical equipment being installed but not yet taken over from the Contractor.

END

**"PREVIEW COPY ONLY"**

**TRANSNET**



Transnet SOC Limited Registration Number 1990/00900/06

---

**TRANSNET SPECIFICATION**

---

**E7/1 - SPECIFICATION FOR GENERAL WORK AND  
WORKS ON, OVER, UNDER OR ADJACENT TO RAILWAY  
LINES AND NEAR HIGH VOLTAGE EQUIPMENT**

---

(This specification shall be used in network operator contracts)

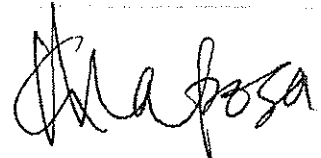


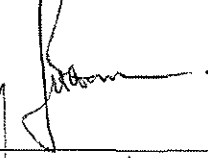
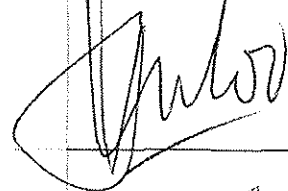

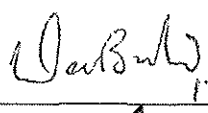

**"PREVIEW COPY ONLY"**

Circulation Not Restricted

© This document as a whole is protected by copyright. The information herein is the sole property of Transnet SOC Ltd. It may not be used, disclosed or reproduced in part or in whole in any manner whatsoever, except with the written permission of and in a manner permitted by the proprietors.

*(This page not to be issued with contract)*

**SPECIFICATION FOR GENERAL WORK AND WORKS ON, OVER, UNDER OR  
ADJACENT TO RAILWAY LINES AND NEAR HIGH VOLTAGE EQUIPMENT**

Author:	Project Manager Capital Program (Electrical)	G. Maposa	
Approved:	Senior Engineer Infra Engineering (Train Authorisation Systems)	J. van den Berg	
"	Principal Engineer Infra Engineering (Track)	M. Marutla	
"	Principal Engineer Infra Engineering (Structures)	J. Honan	
"	Principal Engineer Infra Engineering (Electrical)	J. Vosloo	
"	Principal Engineer Technology Management (Electrical)	W. Coetzee	
"	Chief Engineer Transport Telecoms	D. Botha	 17 June 11
Authorised:	Chief Engineer Infrastructure Engineering	J. van Aardt	 2011/06/30

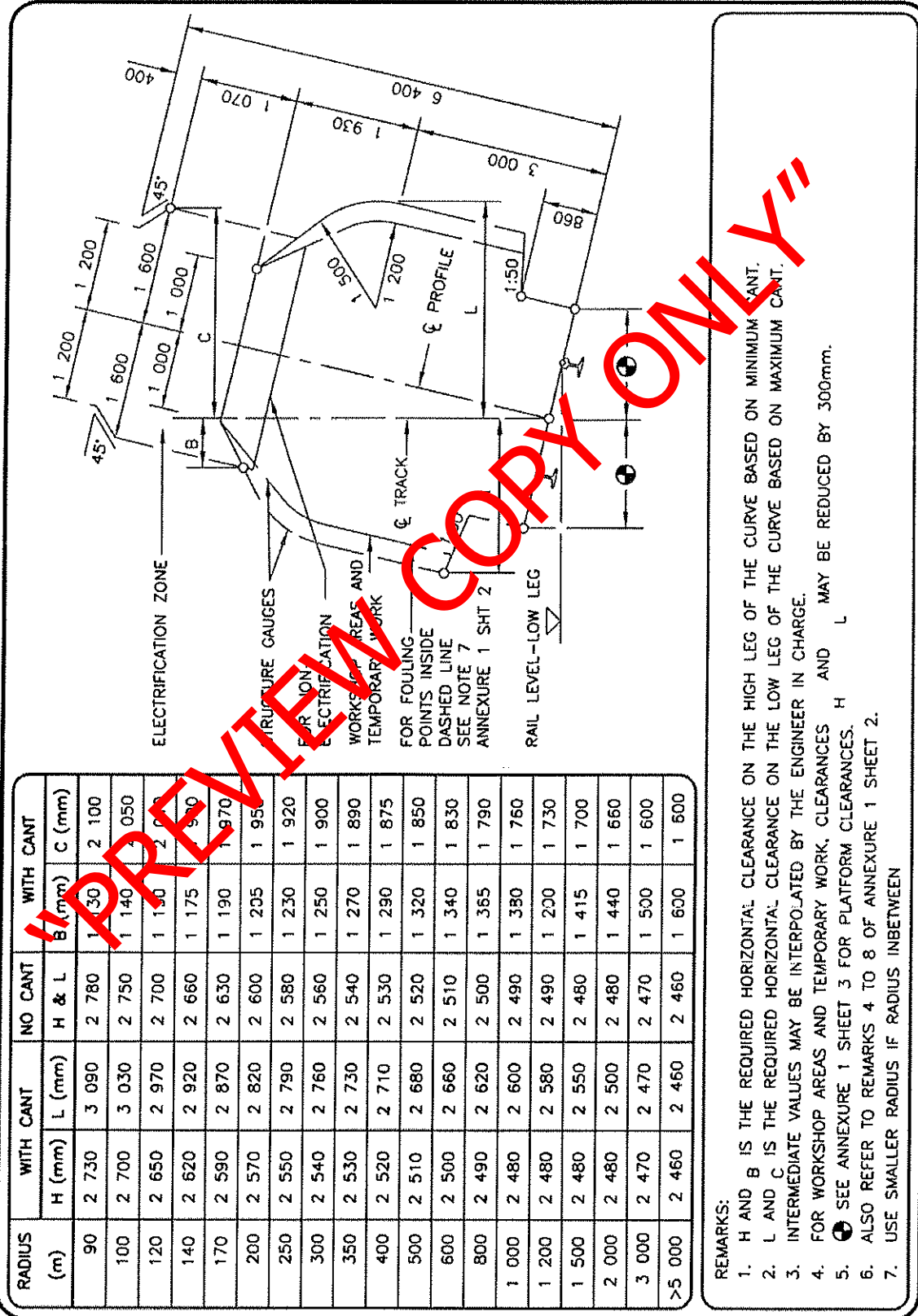
Date: May 2011

(This page not to be issued with contract)



HORIZONTAL CLEARANCES :  
1 065mm TRACK GAUGE

ANNEXURE 1  
SHEET 1 of 5

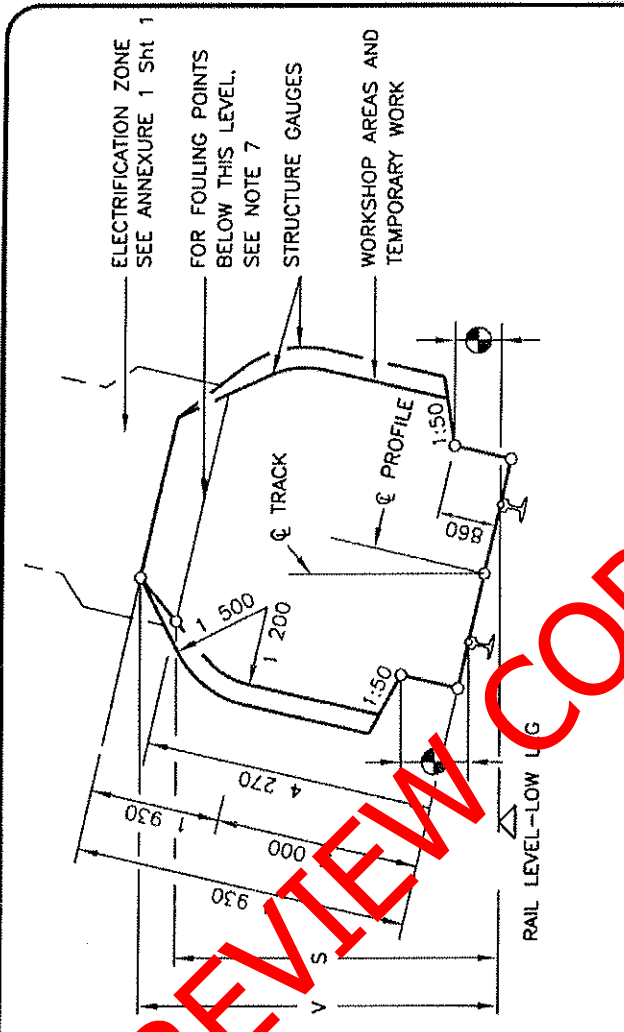


RADIUS (m)	WITH CANT		NO CANT	
	H (mm)	L (mm)	H & L	C (mm)
90	2 730	3 090	2 780	2 100
100	2 700	3 030	2 750	2 050
120	2 650	2 970	2 700	2 000
140	2 620	2 920	2 660	1 950
170	2 590	2 870	2 630	1 970
200	2 570	2 820	2 600	1 950
250	2 550	2 790	2 580	1 920
300	2 540	2 760	2 560	1 900
350	2 530	2 730	2 540	1 890
400	2 520	2 710	2 530	1 875
500	2 510	2 680	2 520	1 850
600	2 500	2 660	2 510	1 830
800	2 490	2 620	2 500	1 790
1 000	2 480	2 600	2 490	1 760
1 200	2 480	2 580	2 490	1 730
1 500	2 480	2 550	2 480	1 700
2 000	2 480	2 500	2 480	1 660
3 000	2 470	2 470	2 470	1 600
>5 000	2 460	2 460	2 460	1 600

- REMARKS:
- H AND B IS THE REQUIRED HORIZONTAL CLEARANCE ON THE HIGH LEG OF THE CURVE BASED ON MINIMUM CANT.
  - L AND C IS THE REQUIRED HORIZONTAL CLEARANCE ON THE LOW LEG OF THE CURVE BASED ON MAXIMUM CANT.
  - INTERMEDIATE VALUES MAY BE INTERPOLATED BY THE ENGINEER IN CHARGE.
  - FOR WORKSHOP AREAS AND TEMPORARY WORK, CLEARANCES H AND L MAY BE REDUCED BY 300mm.
  - SEE ANNEXURE 1 SHEET 3 FOR PLATFORM CLEARANCES.
  - ALSO REFER TO REMARKS 4 TO 8 OF ANNEXURE 1 SHEET 2.
  - USE SMALLER RADIUS IF RADIUS IN BETWEEN

VERTICAL CLEARANCES :  
1 065mm TRACK GAUGE

ANNEXURE 1  
SHEET 2 of 5



LOCATION	NOT ELECTRIFIED	ELECTRIFIED (PRESENT OR FUTURE)	
		3kV & 2.5kV	25kV
* BELOW ALL AREAS OTHER THAN THOSE INDICATED BY	RADIUS (mm)	S (mm)	V (mm)
	100	4 470	5 050
	300	4 410	5 020
	600	4 370	5 000
	1 000	4 350	4 990
	1 500	4 310	4 960
	2 000	4 290	4 940
>3 000	4 270	4 930	
* OVER OR NEAR POINTS AND CROSSING IF REQUIRED BY ELECTRICAL IRRESPECTIVE OF RADIUS		5 650	6 000

REMARKS:

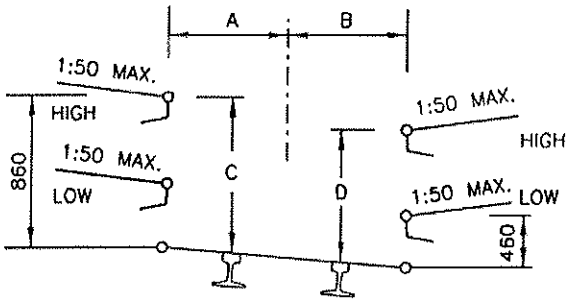
- V IS THE REQUIRED VERTICAL CLEARANCE EXCEPT WHERE REDUCED CLEARANCE S APPLIES.
- S IS THE MINIMUM VERTICAL CLEARANCE FOR STRUCTURES AND TEMPORARY WORK OVER NON-ELECTRIFIED LINES.
- INTERMEDIATE VALUES MAY BE INTERPOLATED BY THE ENGINEER IN CHARGE.
- FOR APPLICATION AT CURVES
  - 1 APPLY INCREASED CLEARANCES FOR CURVES TO POINTS 3m BEYOND THE ENDS OF THE CIRCULAR CURVE
  - 2 REDUCE CLEARANCES AT A UNIFORM RATE OVER THE REMAINDER OF THE TRANSITION CURVE.
  - 3 FOR NON-TRANSITIONED CURVES REDUCE AT A UNIFORM RATE OVER A LENGTH OF 15m ALONG STRAIGHTS.
- NEW STRUCTURES: SEE BRIDGE CODE.
- TUNNELS: SEE DRAWING BE 82-35.
- FOULING POINTS: SEE CLAUSE 3.1.
- CLEARANCES ARE BASED ON 15m BOGIE CENTRES AND 21.2m VEHICLE BODY LENGTH.
- SEE ANNEXURE 1 SHEET 3 FOR PLATFORM CLEARANCES.

# CLEARANCES : PLATFORMS

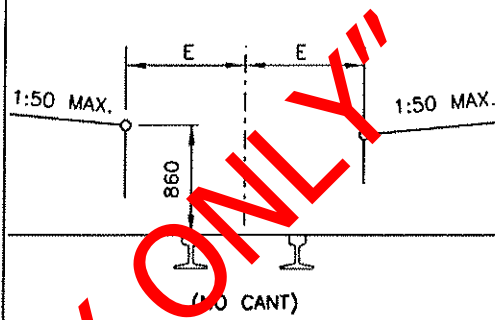
ANNEXURE 1  
SHEET 3 of 5

## PLATFORMS : TRACK GAUGE 1 065mm

### PASSENGERS



### GOODS

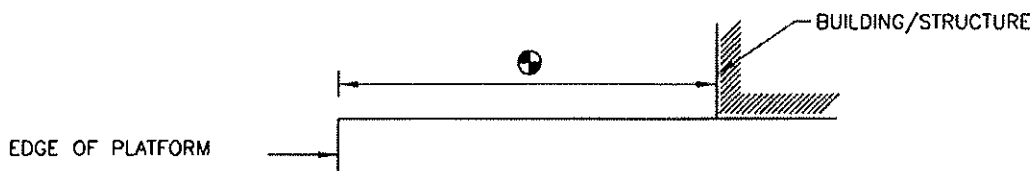


RADIUS (m)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
90	1 690	1 820	890	810	1 840
100	1 650	1 790	890	810	1 810
120	1 610	1 740	890	810	1 760
140	1 580	1 700	890	810	1 720
170	1 550	1 660	890	810	1 690
200	1 530	1 630	890	820	1 670
250	1 520	1 600	890	820	1 640
300	1 520	1 570	890	830	1 620
350	1 520	1 560	880	830	1 600
400	1 520	1 550	880	840	1 590
500	1 520	1 540	880	850	1 580
600	1 520	1 530	870	850	1 570
800	1 520	1 520	860	860	1 560
1 200	1 520	1 520	860	860	1 550
2 000	1 520	1 520	860	860	1 540
3 000	1 520	1 520	860	860	1 530
STRAIGHT	1 520	1 520	860	860	1 520

#### REMARKS:

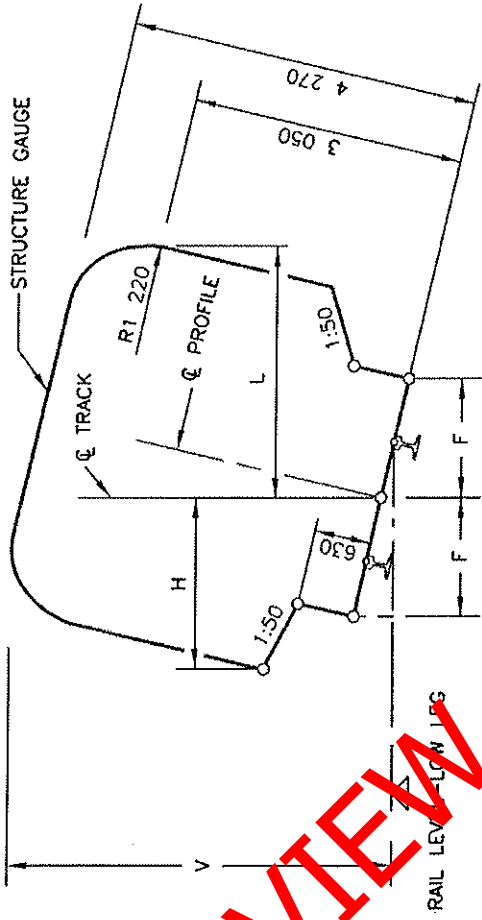
1. NO CANT TO BE APPLIED EXCEPT WHEN THE GOODS PLATFORM IS ON A RUNNING LINE.
2. INTERMEDIATE VALUES MAY BE INTERPOLATED BY THE ENGINEER IN CHARGE.
3. 8m TO MAIN STATION-BUILDINGS AND 3m TO ALL OTHER STRUCTURES.
4. TOLERANCES : SEE CLAUSE 8.0.10.
5. ALWAYS USE THE SMALLEST RADIUS

## STRUCTURES ON PLATFORMS : 1 065mm AND 610mm TRACK GAUGE



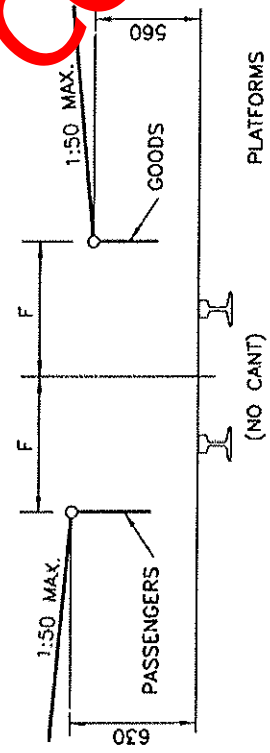
CLEARANCES : 610mm TRACK GAUGE

ANNEXURE 1  
SHEET 5 of 5



RADIUS (m)	F (mm)
50	1 550
60	1 510
80	1 460
100	1 430
120	1 410
140	1 390
170	1 380
200	1 370
250	1 360
300	1 350
400	1 330
1 000	1 320
>2 000	1 320
STRAIGHT	1 310

RADIUS (m)	WITH CANT		NO CANT	
	H (mm)	L (mm)	H & L (mm)	V (mm)
50	2 370	2 490	2 400	4 320
70	2 310	2 420	2 330	4 210
100	2 260	2 370	2 280	4 110
140	2 220	2 340	2 250	4 010
200	2 200	2 300	2 220	4 300
300	2 190	2 270	2 200	4 300
500	2 180	2 230	2 190	4 290
700	2 170	2 200	2 180	4 270
1 000	2 170	2 170	2 170	4 270
>2 000	2 160	2 160	2 160	4 270



PREVIEW COPY ONLY

REMARKS:

1. H IS THE MINIMUM HORIZONTAL CLEARANCE ON THE OUTSIDE OF THE CURVE BASED ON MINIMUM CANT.
2. L IS THE MINIMUM HORIZONTAL CLEARANCE ON THE INSIDE OF THE CURVE BASED ON MAXIMUM CANT.
3. V IS THE MINIMUM VERTICAL CLEARANCE.
4. FOR APPLICATION AT CURVES:
  - 4.1 APPLY INCREASED CLEARANCES FOR CURVES TO POINTS 2m BEYOND THE ENDS OF THE CIRCULAR CURVE.
  - 4.2 REDUCE CLEARANCES AT A UNIFORM RATE OVER THE REMAINDER OF THE TRANSITION CURVE.
  - 4.3 FOR NON-TRANSITIONED CURVES REDUCE AT A UNIFORM RATE OVER A LENGTH OF 18m ALONG STRAIGHTS.
5. INTERMEDIATE VALUES MAY BE INTERPOLATED BY THE ENGINEER IN CHARGE.
6. ALSO REFER TO REMARKS 5, 6 AND 7 OF ANNEXURE 1 SHEET 2.
7. CLEARANCES ARE BASED ON 9 700mm BOGIE CENTRES AND 13 700mm VEHICLE BODY LENGTH.
8. SEE ANNEXURE 1 SHEET 3 FOR STRUCTURES ON PLATFORMS.