



T F R, a division of

TRANSNET SOC LTD

Registration Number 1990/000900/30

[hereinafter referred to as **Transnet**]

REQUEST FOR QUOTATION [RFQ] NO. BLE/1031/2015

AS AND WHEN REQUIRED GARDEN AND BUSH CLEARING AT WORCESTER

**FOR THE AS AND WHEN REQUIRED GARDEN AND BUSH CLEARING AT
WORCESTER TO BREDASDORP FOR A PERIOD OF 24
MONTHS**

FOR DELIVERY TO: T F R

ISSUE DATE: 20 August 2015

CLOSING DATE: 3 September 2015

CLOSING TIME: 10:00



SCHEDULE OF DOCUMENTS

RFQ : AS AND WHEN REQUIRED GARDEN AND BUSH CLEARING AT WORCESTER

Section

- 1. Notice to Bidders**
- 2. Evaluation criteria & returnable documents**
- 3. Quotation form**
- 4. Declaration and breach of law form**

Part 1 - Previous related experience

Part 2 - Health and safety plan

Part 3 – Risk and environmental plan

Part 4 - Working program

Annexure A – preference point claim form

Annexure B – B-BEE improvement plan

**E71- SPECIFICATION FOR GENERAL WORK AND WORKS ON, OVER, UNDER
OR ADJACENT TO RAILWAY LINES AND NEAR HIGH VOLTAGE EQUIPMENT**

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 and/or courier]
CLOSING VENUE: [courier and/or tender box at physical address]

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/1031/2015**
Description: **AS AND WHEN REQUIRED GARDEN AND BUSH
CLEARING AT WORCESTER AREA**
Closing date and time: **3 September 2015 AT 10:00 Sharp**
Closing address: *[Refer to options in Delivery Instructions for RFQ below]*

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

A. DELIVERY INSTRUCTIONS FOR RFQ

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

- a) 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.

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

Please note that this RFQ closes punctually at **10:00 on 3 September 2015**.

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.

Envelopes must not contain documents relating to any RFQ other than that shown on the envelope.

B. FORMAL RFQ BRIEFING

- i. A compulsory RFQ briefing and Site Meeting will be conducted at the **Worcester Station REM office**, on **28 August 2015**, time **11:00** for a period of ± 30 minutes. [Respondents to provide own transportation]. Only one of the sites will be visited. Also bring your safety shoes and reflective vest for the site meeting.
- ii. **Respondents failing to attend the compulsory RFQ briefing will be disqualified.**

The briefing session will start punctually at **11:00** and information will not be repeated for the benefit of Respondents arriving late.

1 Responses to RFQ

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

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

Transnet fully endorses and supports the Government's Broad-Based Black Economic Empowerment Programme and it would therefore prefer to do business with local business enterprises who share these same values. As described in more detail in the attached B-BBEE Claim Form Transnet will allow a "preference" to companies who provide a valid B-BBEE Verification Certificate.

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

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

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

2.1 B-BBEE Improvement Plan

Transnet encourages its Suppliers/Service Providers to constantly strive to improve their B-BBEE rating. Whereas Respondents will be allocated points in terms of a preference point system based on its B-BBEE scorecard to be assessed as detailed in paragraph 2.1 above, in addition to such scoring, Transnet also requests that Respondents submit a B-BBEE improvement plan. Respondents are therefore requested to indicate the extent to which they will maintain or improve their B-BBEE status over the contract period. Respondents are requested to submit their B-BBEE Improvement Plan as an additional document with their Proposals by completion of **Annexure B** appended hereto. *[Refer to Annexure B for further instructions]*

3 Communication

Respondents are warned that a response will be liable for disqualification should any attempt be made by a Respondent either directly or indirectly to canvass any officer(s) or employee of Transnet in respect of this RFQ between the closing date and the date of the award of the business.

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

Name: Cobus Carstens

Email: cobus.carstens@transnet.net

Telephone: 021 940 - 3833

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

Telephone 021 940 - 3833

Email: carol.swan@transnet.net

4 Legal Compliance

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

5 Changes to Quotations

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

6 Pricing

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

7 Prices Subject to Confirmation

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

8 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.

9 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 or an alternative bid;
- 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 should it at Transnet's discretion be more advantageous in terms of, amongst others, cost or developmental considerations ; or
- make no award at all.

Should a contract be awarded on the strength of information furnished by the Respondent, which after conclusion of the contract, is proved to have been incorrect, Transnet reserves the right to cancel the contract.

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

Transnet reserves the right to conduct Post Tender Negotiations (PTN) with selected Respondents or any number of short-listed Respondents, such PTN to include, at Transnet's discretion, any evaluation criteria listed in the RFQ document.

Should the preferred bidder fail to sign or commence with the contract within a reasonable period after being requested to do so, Transnet reserves the right to award the business to the next highest ranked bidder, provided that he/she is still prepared to provide the required goods at the quoted price.

10 Specification/Scope of Work

DESCRIPTION OF THE WORK :

10.1 EMPLOYERS OBJECTIVE :

The objective is to maintain a safe and fire free areas as part of the Transnet ground. To avoid illegal dumping and vagrants from erecting illegal shelters on Transnet land. An additional objective is to maintain gardens to a standard acceptable to the surrounding environment and buildings. By keeping the land free of harmful land corrosive substances thereby avoiding harm to the environment.

10.2 OVERVIEW OF THE WORK :

This contract is a required as an "as and when" contract to control grass, small shrubs, herbaceous plant material and other undesirable or unwanted plant growth on open and unutilized land. Open land areas to be cut at a maximum of 10cm. trimming of all indigenous trees and shrubs to up to 1.5 metres above ground level. Lawn areas must be mowed and the edges of the grass must be trimmed.

10.3 EXTENT OF THE WORK :

As the contract is for an "as and when" required contract specific measurement cannot be predetermined at the onset of the specification and specific work detail.

10.4 LOCATION OF THE WORK :

Worcester, Robertson, Ashton, Bonnievale, Sir Lowrys Pass, Elgen, Botrivier, Caledon, Bredasdorp

10.5 DURATION OF THE WORK :

The duration of the contract is for a period of 24 months.

Contract documents and hand over of work

This contract will consist of a contract document and letter of acceptance.

The contract is for an "as and when" required basis for a period of two years (24 months from dated of acceptance) or R 590 000.00 (VAT excluded) whichever comes first.

The contractor will tender per hectare according to quantity on tender price list for each item. This quantity is just for tender purpose and can be more or less as determine necessary by Transnet per cut.

The Transnet Freight Rail Project manager will contact the Contractor to do vegetation control to the areas as necessary and when necessary. The Transnet freight rail Project manager and the contractor will meet on site and the areas to be shown to the Contractor and the contractor and Transnet Freight Rail Project manager will agree to the quantity to be done. For the first "cut" there will be a site hand over and the Contractor and his staff will attend the Transnet freight rail safety induction that will take about 20 minutes. The TFR Project manager will give the Contractor instruction in the site book with the quantities as agreed on to do the vegetation control. Also in the site book the start date and completion date for the "cut" will be agreed on. When the work is completed the contractor will inform the TFR Project Manager who will do inspection and approve the work. The Contractor will then send in an invoice for the work done as set out in the site book for payment.

DEFINITIONS: Project Manager means any person appointed by Transnet Freight Rail from time to time to supervise and take charge of the Contract.

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Transnet Freight Rail is a business unit of Transnet Limited, Registration No 90/00900/30, a Company registered under the Company Laws of the Republic of South Africa.

Works means the works to be executed in terms of this contract.

No alterations, erasures or additions of any kind shall be made by the tenderers, in from or to any part of this specification unless expressly required to be made by written notice and should any unauthorized alterations, erasures or additions be made, they will not be recognized by Transnet freight rail.

Communication and Availability:

The Contractor shall provide sufficient communication facilities including e-mail address and fax machine in order that he may be reached at any time and place during the duration of the contract.

10.6. GENERAL MAINTENANCE ASPECTS :

WORK SPECIFICATIONS :

- Each area will be kept clean and maintained to the maximum growth height 100mm.
- Cut long grass and with tractor and brush-cutter.
- Cut inaccessible areas with weed-eaters and cut lawn with lawn mowers.
- The edges of the lawn at all the garden areas must be cut and cleaned.
- Cut all alien trees with power (chainsaw) or bow saws +150mm above the ground. The stumps should immediately be treated with the relevant registered herbicide (e.g. garlon and diesel at 2% solution or a similar product assuring the same control). Above mentioned herbicide must be mixed with a colorant and applied with paintbrush to ensure the stumps are treated. Remove all small trees the same as above.
- Cut back the growth of all large trees to a height of 2 metres from ground level and cut back growth of shrubs etc.
- Clean around shrubs and decorative trees and trim edges.
- Removal of all garden refuse, all building rubble, rubbish, paper, bottles and tins after each clean up to be done by Contractor (no dumping on Transnet Property will be allowed).
- Cost of dumping at the municipal dumping site must be included in the rates.
- Eradicate thorn bushes completely with stem and roots at all grass cutting areas and spray with weed-killer as and when required.
- Prune and clean around between small shrubs and remove all dead shrubs.
- The Contractor is to provide suitably trained staff to handle herbicides.
- 3 days' notice must be given to the representative of Transnet Freight Rail to inspect site for a completion certificate to be issued.
- Limbs of large trees breaking during the contract period are to be cut up and removed from site.
- In the event where the full clean-up was not done for the period specified, the Transnet Freight Rail representative will determine the percentage of work done and provide the Contractor with the percentage to be claimed for the period.

10.7. PLANT AND MATERIAL :

To be supplied by the contractor

All the necessary machinery (weed-eaters, bush-cutters and tractors), labour, personal protective clothing and equipment for his staff as required. Contractor also have to supply all herbicides required for the treatment of noxious weeds and trees.

10.8 EQUIPMENT :

- Weed-eaters
- Lawn mowers
- Bush-cutters
- Chain saw
- Tractor
- Brush cutter
- Trailer
- Vehicle – Light delivery vehicle and truck
- And all hand tools

Access to site, store for contractor material equipment

Areas are restricted and the contractor must ensure he complies with the regulations of Transnet in every way.

If needed the contractor will provide his own portable store facilities, the store appearance shall be subject to the approval of the Transnet project manager. The location where the store may be placed shall be showed to the contractor by the Transnet freight rail Project manager and the store may only be place at this approved location.

The contractor is responsible for the safe keeping of all his material and equipment on site, the contractor can have two staff members on site 24 hours 7 day a week to protect his material and equipment, these staff members will act as security and will not be allowed to sleep, wash or cook food on the Transnet premises.

10.9 EXISTING SERVICES :

None at present

10.10 SITE ESTABLISHMENT :

Not required as this is a garden maintenance contract.

10.11. MANAGEMENT OF THE WORK :**10.12 SITE MEETINGS :**

Site meetings to discuss the project will be held, on a regular basis as agreed upon, between Transnet Freight Rail Project manager and the Contractor.

10.13 SITE BOOKS :**Instructions to the contractor and Site records**

Instructions to the Contractor shall be confirmed in writing and only requests that are received in writing in site book will be accepted.

Site Diary

The Contractor shall keep a site diary in duplicate to record ALL day-to-day work done, weather conditions, staff on site and incidents that could occur during the contract period. This includes weather, number of workers on the site, incidences that have occurred and what work is to be done on that day. These records shall be used to enable the parties to determine exactly how many hours per day (including overtime) the Contractor and his staff have been working on a particular project.

10.14 PROGRAMME OF WORK :**Program and Planning of the work**

The contractor shall provide to the Project Manager a detail plan of how he intends to do the work and this plan must be to the requirements of the operation of Transnet Freight Rail workshop with minor disruptions as no delays must be allowed in this regard.

The program must be agreed to (in the site instruction book) before any work will be allowed to commence. The program can be in a form of a (bar) chart and will be used as a guide to measure progress of the work.

10.15 PERFORMANCE MONITORING AND EVALUATIONS / INSPECTIONS**Inspections and payment**

Inspections will take place on date as agreed between Contractor and Transnet freight rail project manager. No payment will be released without inspection and certification having undertaken. **Prices are per cut.** Payment for approved invoices will be thirty days after month-end statement.

Escalation of costs

This contract will not be subject to cost escalation.

10.16. ENVIRONMENTAL REQUIREMENTS :

The Protection of the environment as far as protection of water / streams and ponds
Avoiding spillage of harmful substances on Transnet land

10.17 COMPLIANCE WITH STATUTES :

In this contract all existing laws is to be observed and applied fully.

10.18 DAMAGE TO FAUNA AND FLORA :**Environment**

The Contractor shall, at all times, comply with the statutes that prohibit pollution of any kind. These statutes are enacted in the following legislation.

- i. The National Environmental Management Act, 107/1998;
- ii. The Environmental Conservation Act, 73/1989; and
- iii. The National Water Act, 36/1998.

The Contractor shall appoint a responsible person to ensure that no incident shall occur on site that could cause pollution. Where the Contractor was negligent and caused any form of pollution the damage shall be rectified at the Contractor's cost.

A contractor who is required to cross the track at any time during the duration of the contract must be accompanied by flagman with a white flag 600mm on either side of the work site, warning trains of people working on the track.

10.19 GENERAL :**Working hours and working outside normal working hours :**

Normal working hours are between 07:30 and 16:00 Mondays to Fridays.

The Project manager, the contractor and Manager of the Transnet staff using the building will meet to discuss and agree if contractor requests work outside the normal hours as indicated above and on Weekends and Public Holiday. Due to security reasons this may be disallowed.

Electricity Supply and Water Supply :

Electricity will not be made available to the Contractor. The contractor shall not be allowed to use any electrical equipment to carry out the work.

Water may be made available for the purpose of the works only. The water shall be used conservatively and if not, this privilege shall be removed and the water shall be metered, and the cost of the metered water shall be borne by the Contractor as well as all charges as entertained by Transnet. The Contractor must supply all connections, hoses, etc., as necessary.

Sub-contractor :

The Contractor shall not assign his obligations under the contract, nor sublet the contract work. Where specialized work or part thereof is required the contractor can use a sub-contractor with the consent of the Transnet freight rail Project Manager.

Handing over of Site

No work will commence on any individual project before the site has been officially handed over by the project manager by means of a written site hand over document and instruction in the Site Instruction Book. Before any work can commence the contractor and his staff shall attend a Transnet safety induction session

Materials found on site

The Contractor shall not use any materials found on the site without the prior written consent of the manager. No material that is lying on the site or on Transnet's property may be removed (even if deemed as scrap) by the contractor.

Insurance :

Contractor shall provide the insurance for the following: Public Liability and safety of contractor's employees.
Letter of Good Standing from Compensation Comm.

10.20 HEALTH AND SAFETY :

SAFETY OF STAFF AND PROTECTION OF TRAINS

For the purposes of the Occupational health and Safety Act, (Act Number 85 of 1993) and the Environment Conservation Act, (Act No. 73 of 1989) the site is transferred, for the duration of the contract, to the control of the Contractor as if it is his property. As employer, he is in every respect responsible for the compliance with the provisions of these Acts, as well as the application of General Administrative regulation 13 to the employees of Transnet who visit the site.

The Contractor shall submit a Health and safety plan before any site will be handed over for approval. The health and safety plan will cover all the projects under the contract, the health and safety plan shall include a risk assessment to cover the standard risk and safety plan to general maintenance and alteration work to buildings. As per this list

- a. *Working within a public area*
- b. *Hazardous chemical substances*
- c. *Noise*
- d. *Hire plant and machinery*
- e. *Firefighting equipment*
- f. *Transport staff*
- g. *Transport material*
- h. *Occupational health*
- i. *Welfare facilities*
- j. *Speed restriction*
- k. *Permits*
- l. *Occupational health and safety signage*
- m. *Personal protective clothing, equipment (PPE)*
- n. *Potential hazard situations*
- o. *Working at Heights of more than 3metre*
- p. *Working close to Electricity overhead lines*

Precautions to be taken: See Transnet attached E7-1 document

Contractors working on or near the rail track must wear reflective clothing at all times.
In addition hard hats with visors and safety footwear are necessary.

The making of fires on Transnet property is strictly forbidden.

Transnet urges its clients, suppliers and the general public to report any fraud or corruption to

TIP-OFFS ANONYMOUS : 0800 003 056

Returnable Document**RFQ FOR THE AS AND WHEN REQUIRED GARDEN AND BUSH CLEARING AT WORCESTER****AREA****CLOSING VENUE: Transnet Park Building, Robert Sobukwe road, Bellville****CLOSING DATE & TIME : 3 September 2015****VALIDITY PERIOD : 90 Business Days****SECTION 2****EVALUATION CRITERIA AND RETURNABLE DOCUMENTS****11 Evaluation Criteria**

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

Criterion/Criteria	Explanation
Administrative responsiveness	Completeness of response and returnable documents
Substantive responsiveness	Prequalification criteria, if any, must be met and whether the Bid materially complies with the scope and/or specification given. • Pest Control Operator Certificate
Functionality Threshold	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 a threshold with a prescribed percentage threshold of 60 %. The minimum threshold of 60% must be met or exceeded for a Bidder's proposal to progress to the next stage of evaluation.
Final weighted evaluation based on 80/20 preference point	<ul style="list-style-type: none"> • Pricing and price basis [firm] • B-BBEE status of company - Preference points will be awarded to a bidder for attaining the B-BBEE status level of contribution in accordance with the table indicated in Annexure A: B-BBEE Claim Form.

12 Validity Period

Transnet desires a validity period of 90 [ninety] Business Days from the closing date of this RFQ.

This RFQ is valid until _____.

13 Disclosure of Prices Quoted

Respondents must indicate here whether Transnet may disclose their quoted prices and conditions to other Respondents:

YES ☐ NO ☐

14 Returnable Documents

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

Returnable Document

All Returnable Sections, as indicated in the header and footer of the relevant pages, must be signed, stamped and dated by the Respondent.

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

Failure to provide all these Mandatory 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.

Please confirm submission of these mandatory Returnable Documents by so indicating [Yes or No] in the tables below:

Mandatory Returnable Documents	Submitted [Yes or No]
SECTION 3 : - Quotation Form - Price schedule - Pest Control Operator Certificate	
- Part 1 Previous related experience with reference - Part 2 Health, safety and Environment plan - Part 3 Risk Register and Mitigation plan - Part 4 Working program	

- 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.

Essential Returnable Documents	Submitted [Yes or No]
SECTION 2: Evaluation criteria and list of returnable documents	
- SECTION 4: RFQ Declaration and Breach of Law Form	
- valid and original, or a certified copy, of your entity's B-BBEE Verification Certification as per the requirements stipulated in Annexure A: B-BBEE Claims Form Note: failure to provide these required documents at the closing date and time of the RFQ will result in an automatic score of zero being allocated for preference	
- Original valid Tax Clearance Certificate [Consortia / Joint Ventures must submit a separate Tax Clearance Certificate for each party]	
ANNEXURE A – B-BBEE Preference Points Claim Form	
Letter of Good Standing – issues by the Department of Labour	
ANNEXURE B. – B-BBEE Improvement Plan	

Returnable Document**CONTINUED VALIDITY OF RETURNABLE DOCUMENTS**

The successful Respondent will be required to ensure the validity of all returnable documents, including but not limited to its Tax Clearance Certificate and valid B-BBEE Verification Certificate, for the duration of any contract emanating from this RFQ. Should the Respondent be awarded the contract [the Agreement] and fail to present Transnet with such renewals as and when they become due, Transnet shall be entitled, in addition to any other rights and remedies that it may have in terms of the eventual Agreement, to terminate such Agreement forthwith without any liability and without prejudice to any claims which Transnet may have for damages against the Respondent.

Technical Evaluation Criteria

The Technical criteria and maximum score in respect of each of the criteria are as follows:

Technical criteria	Sub-criteria Maximum number of Points	Checklist for submission Yes / No
Health and Safety Plan	25%	
Risk and Environment Plan	25%	
Previous Related Experience with references	25%	
Working Programme	25%	
Maximum possible score for quality (Ms)	100	

The minimum Threshold for technical criteria is 60%.

The minimum threshold of 60% must be met or exceeded for a Bidder's proposal to progress to the next stage of evaluation.

NB: Kindly ensure that you submit with your proposal all the required documentation for the technical criteria mentioned above.

Returnable Document**SECTION 3
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 RFQ Terms and Conditions for the Supply of Goods or Services to Transnet; 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.

Respondent's Signature

Date & Company Stamp

Returnable Document**Price Schedule**

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

SCHEDULE OF RATES AND QUANTITIES				
DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
MAINTENANCE LAWN / GARDEN	--	--	--	--
Worcester Station- once per month (green area)	HA	2,5		
Worcester Station Twice per month (orange area)	HA	0,5		
Worcester Yard Master and Diesel Depot-once per month (green area)	HA	1,1		
Worcester Yard Master and Diesel Depot- Twice per month (orange area)	HA	0,5		
Worcester Transtel- Twice per month (orange)	HA	0,5		
TOTAL				
ROUGH AREA, TO BE CLEANED (SPARSE) 300mm	Ha	unspecified		
ROUGH AREA, TO BE CLEANED (SPARSE) 500mm	Ha	unspecified		
ROUGH AREA, TO BE CLEANED (SPARSE) 700mm	Ha	unspecified		
ROUGH AREA, TO BE CLEANED (DENSE) 300mm	Ha	unspecified		
ROUGH AREA, TO BE CLEANED (DENSE) 500mm	Ha	unspecified		
ROUGH AREA, TO BE CLEANED (DENSE) 700mm	Ha	unspecified		
FELLING OF TREES HEIGHT 1,5M - GIRTH 250MM	Each	unspecified		
FELLING OF TREES HEIGHT 1,75M - GIRTH 550MM	Each	unspecified		
FELLING OF TREES HEIGHT 2,5M - GIRTH 750MM	Each	unspecified		
FELLING OF TREES HEIGHT 3, 0M - GIRTH 550MM	Each	unspecified		
TOTAL - VAT EXCLUDED				

- All Prices must be quoted in South African Rand, exclusive of VAT
- To facilitate like-for-like comparison bidders must submit pricing strictly in accordance with this price schedule and not utilise a different format. Deviation from this pricing schedule could result in a bid being disqualified.

Respondent's Signature

Date & Company Stamp

Returnable Document

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.

By signing this Quotation Form the Respondent is deemed to acknowledge that he/she has made himself/herself thoroughly familiar, and agrees, with all the conditions governing this RFQ, including those contained in any printed form stated to form part hereof, including but not limited to the documents stated below and Transnet SOC Ltd will recognise no claim for relief based on an allegation that the Respondent overlooked any such condition or failed properly to take it into account for the purpose of calculating tendered prices or otherwise:

1. Specifications and drawings included in this RFQ - if applicable; and
2. The following documents all of which are available on Transnet's website or upon request:
 - 2.1. General Bid Conditions;
 - 2.2. Standard RFQ Terms and Conditions for the Supply of Goods or Services to Transnet;
 - 2.3. Supplier Integrity Pact;
 - 2.4. Non-disclosure Agreement; and
 - 2.5. Vendor Application Form and all supporting documents (first time vendors only)

Alternatively, for all existing vendors, please provide vendor number(s) here:

Transnet Operating Division	Unique Vendor Number	Yes / No
Transnet Group		
TFR, etc.		

In the Yes/No column above, please confirm that all the information e.g. company address and contact details, banking details etc are still correct as at the time of allocation of the vendor number(s). Alternatively, Respondents are required to provide the updated information with their bid submission.

SIGNED at _____ on this _____ day of _____ 20____

SIGNATURE OF WITNESSES

ADDRESS OF WITNESSES

1 _____

Name _____

2 _____

Name _____

SIGNATURE OF RESPONDENT'S AUTHORISED REPRESENTATIVE: _____

NAME: _____

DESIGNATION: _____

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SECTION 4

RFQ DECLARATION AND BREACH OF LAW FORM

NAME OF ENTITY: _____

We _____ do hereby certify that:

1. Transnet has supplied and we have received appropriate responses to any/all questions [as applicable] which were submitted by ourselves for RFQ Clarification purposes;
2. we have received all information we deemed necessary for the completion of this Request for Quotation [RFQ];
3. we have been provided with sufficient access to the existing Transnet facilities/sites and any and all relevant information relevant to the Supply of the Goods as well as Transnet information and Employees, and has had sufficient time in which to conduct and perform a thorough due diligence of Transnet's operations and business requirements and assets used by Transnet. Transnet will therefore not consider or permit any pre- or post-contract verification or any related adjustment to pricing, service levels or any other provisions/conditions based on any incorrect assumptions made by the Respondent in arriving at his Bid Price.
4. at no stage have we received additional information relating to the subject matter of this RFQ from Transnet sources other than information formally received from the designated Transnet contact(s) as nominated in the RFQ documents;
5. we are satisfied, insofar as our entity is concerned, that the processes and procedures adopted by Transnet in issuing this RFQ and the requirements requested from Bidders in responding to this RFQ have been conducted in a fair and transparent manner; and
6. Furthermore, we declare that a family, business and/or social relationship **exists / does not exist** [delete as applicable] between an owner / member / director / partner / shareholder of our entity and an employee or board member of the Transnet Group including any person who may be involved in the evaluation and/or adjudication of this Bid.
7. In addition, we declare that an owner / member / director / partner / shareholder of our entity **is / is not** [delete as applicable] an employee or board member of the Transnet Group.
8. If such a relationship as indicated in paragraph 6 and/or 7 exists, the Respondent is to complete the following section:

FULL NAME OF OWNER/MEMBER/DIRECTOR/
PARTNER/SHAREHOLDER:

ADDRESS:

Indicate nature of relationship with Transnet:

Returnable Document

[Failure to furnish complete and accurate information in this regard will lead to the disqualification of a response and may preclude a Respondent from doing future business with Transnet]

9. We declare, to the extent that we are aware or become aware of any relationship between ourselves and Transnet [other than any existing and appropriate business relationship with Transnet] which could unfairly advantage our entity in the forthcoming adjudication process, we shall notify Transnet immediately in writing of such circumstances.

BREACH OF LAW

10. We further hereby certify that I/we **have/have not been** [delete as applicable] 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. This includes the imposition of an administrative fine or penalty.

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.

SIGNED at _____ on this _____ day of _____ 20____

For and on behalf of _____ _____	AS WITNESS:
_____ duly authorised hereto	
Name:	Name:
Position:	Position:
Signature:	Signature:
Date:	Registration No of Company/CC _____
Place:	Registration Name of Company/CC _____

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

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

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Date & Company Stamp

PART 1

VEGETATION CONTROL TRANSNET FREIGHT RAIL GROUNDS BELLVILLE YARD

PREVIOUS RELATED EXPERIENCE WITH REFERENCES :

Note to tenderers:

Tenderers are required to demonstrate their experience in the provision of similar service and to this end shall supply a sufficient detailed reference list (minimum 5) with contact details of existing customers. Currently performed services by the Tenderer in the recent past in order to illustrate his potential to full fill the requirements of this tender.

LIST OF REFERENCES :			
Name of company	Contract Person	Description of service	Project size in value and or area

Signed : _____ Date: _____

Company name : _____

PART 2

VEGETATION CONTROL TRANSNET FREIGHT RAIL GROUNDS BELLVILLE YARD

HEALTH , SAFETY AND ENVIRONMENTAL PLAN:

Due consideration must be given to the deliverables required to execute and complete the contract as per the Quality Management Standard stated in the overview of service and should include compliance with the Occupational Health and Safety Act (OHSA) 85 of 1993 as amended and Construction Regulations but not be limited to:

1. The Contractor's Quality Policy.
2. Index of procedures to be used during the contract.
3. Training – record of staff training.
4. Medicals

Attached submissions to this schedule :

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Signed : _____ Date: _____

Company name : _____

PART 3

VEGETATION CONTROL TRANSNET FREIGHT RAIL GROUNDS BELLVILLE YARD

RISK REGISTER AND MITIGATION PLAN :

Due consideration must be given to the deliverables required to execute and complete the contract as per the Quality Management Standard stated in the overview of service and should include compliance with the Occupational Health and Safety Act (OHSA) 85 of 1993 as amended and Construction Regulations but not be limited to:

1. The Risk Register.
2. Risk analysis methodology.
3. Environmental indicators.

Attached submissions to this schedule :

Signed : _____ Date: _____

Company name : _____

PART 4

VEGETATION CONTROL TRANSNET FREIGHT RAIL GROUNDS BELLVILLE YARD

WORKING PROGRAM :

The tenderer is required to demonstrate to TFR that he/ she has the sufficient current and future capacity to carry out the work as detailed in the Project Specification/ Special conditions/ Price List, and that he has the capacity and plans in place to meet the required delivery schedule as required.

The following must be provided with the RFQ

1. Number of teams and team sizes.
2. Work rate of teams in Hectors per day
3. List of equipment to be utilised.
4. Method of vegetation control.
5. Indication if sub- contractor will be utilised

Index of documentation attached to this schedule :

"PREVIEW COPY"

Signed: _____ Date: _____

Company name : _____

**RFQ FOR THE AS AND WHEN REQUIRED GARDEN AND BUSH CLEARING AT WORCESTER
FOR A PERIOD OF 24 MONTH**

ANNEXURE A : B-BBEE PREFERENCE POINTS CLAIM FORM

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

1. INTRODUCTION

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

2. GENERAL DEFINITIONS

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

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

3. ADJUDICATION USING A POINT SYSTEM

- 3.1 The Bidder obtaining the highest number of total points for the evaluation criteria as enumerated

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in Section 2 of the RFP will be awarded the contract, unless objective criteria justifies the award to another bidder.

- 3.2 Preference points shall be calculated after prices have been brought to a comparative basis taking into account all factors of non-firm prices and all unconditional discounts.
- 3.3 Points scored will be rounded off to 2 [two] decimal places.
- 3.4 In the event of equal points scored, the Bid will be awarded to the Bidder scoring the highest number of preference points for B-BBEE.
- 3.5 However, when functionality is part of the evaluation process and two or more Bids have scored equal points including equal preference points for B-BBEE, the successful Bid will be the one scoring the highest score for functionality.
- 3.6 Should two or more Bids be equal in all respect, the award shall be decided by the drawing of lots.

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

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

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

- 4.2 Bidders who qualify as EMEs in terms of the 2007 version of the Codes of Good Practice must submit a certificate issued by an Accounting Officer as contemplated in the CCA or a Verification Agency accredited by SANAS or a Registered Auditor. Registered auditors do not need to meet the prerequisite for IRBA's approval for the purpose of conducting verification and issuing EME's with B-BBEE Status Level Certificates.
- 4.3 Bidders who qualify as EMEs in terms of the Revised Codes of Good Practice issued on 11 October 2013 in terms of Government Gazette No. 36928 are only required to obtain a sworn affidavit on an annual basis confirming that the entity has an Annual Total Revenue of R10 million or less and the entity's Level of Black ownership.
- 4.4 In terms of the 2007 version of the Codes of Good Practice, Bidders other than EMEs must submit their original and valid B-BBEE status level verification certificate or a certified copy thereof,

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substantiating their B-BBEE rating issued by a Registered Auditor approved by IRBA or a Verification Agency accredited by SANAS.

- 4.5 The Department of Trade and Industry recently revised the Codes of Good Practice on 11 October 2013 [Government Gazette No. 36928]. The Revised Codes will replace the Black Economic Empowerment Codes of Good Practice issued on 9 February 2007. The Revised Codes provide for a transitional period ending 30 April 2015. During the transitional period, companies may elect to be measured in terms of the Revised Codes or the 2007 version of the Codes. Companies which are governed by Sector-specific Codes will be measured in terms of those Sector Codes.
- 4.6 As such, Transnet will accept B-BBEE certificates issued based on the Revised Codes. Transnet will also continue to accept B-BBEE certificates issued in terms of the 2007 version of the Codes provided it was issued before 1 May 2015. Thereafter, Transnet will only accept B-BBEE certificates issued based on the Revised Codes.
- 4.7 In terms of the Revised Codes of Good Practice, Bidders who qualify as QES must comply with all the elements of B-BBEE for the purposes of measurement. QES that are at least 51% or 100% Black owned are only required to obtain a sworn affidavit on an annual basis confirming that the entity has an Annual Total Revenue of R50 million or less and the entity's Level of Black ownership. Large enterprises must submit their original and valid B-BBEE status level verification certificate or a certified copy thereof, substantiating their B-BBEE rating issued by a Registered Auditor approved by IRBA or a Verification Agency accredited by SANAS.
- 4.8 A trust, consortium or joint venture will qualify for points for its B-BBEE status level as a legal entity, provided that the entity submits its B-BBEE status level certificate.
- 4.9 A trust, consortium or joint venture will qualify for points for their B-BBEE status level as an unincorporated entity, provided that the entity submits their consolidated B-BBEE scorecard as if they were a group structure and that such a consolidated B-BBEE scorecard is prepared for every separate bid.
- 4.10 Tertiary institutions and public entities will be required to submit their B-BBEE status level certificates in terms of the specialised scorecard contained in the B-BBEE Codes of Good Practice.
- 4.11 A person will not be awarded points for B-BBEE status level if it is indicated in the Bid documents that such a Bidder intends subcontracting more than 25% [twenty-five per cent] of the value of the contract to any other enterprise that does not qualify for at least the same number of points that such a Bidder qualifies for, unless the intended subcontractor is an EME that has the capability and ability to execute the subcontract.
- 4.12 A person awarded a contract may not subcontract more than 25% [twenty-five per cent] of the value of the contract to any other enterprise that does not have an equal or higher B-BBEE status level than the person concerned, unless the contract is subcontracted to an EME that has the capability and ability to execute the subcontract.
- 4.13 Bidders are to note that in terms of paragraph 2.6 of Statement 000 of the Revised Codes of Good Practice issued on 11 October 2013 in terms of Government Gazette No. 36928, any representation made by an entity about its B-BBEE compliance must be supported by suitable

evidence or documentation. As such, Transnet reserves the right to request such evidence or documentation from Bidders in order to verify any B-BBEE recognition claimed.

5. B-BBEE STATUS AND SUBCONTRACTING

5.1 Bidders who claim points in respect of B-BBEE Status Level of Contribution must complete the following:

B-BBEE Status Level of Contributor _____ = _____ [maximum of 20 points]

Note: Points claimed in respect of this paragraph 5.1 must be in accordance with the table reflected in paragraph 4.1 above and must be substantiated by means of a B-BBEE certificate issued by a Verification Agency accredited by SANAS or a Registered Auditor approved by IRBA or a sworn affidavit in the case of an EME or QSE.

5.2 Subcontracting:

Will any portion of the contract be subcontracted? YES/NO [delete which is not applicable]

If YES, indicate:

- (i) What percentage of the contract will be subcontracted?%
- (ii) The name of the subcontractor
- (iii) The B-BBEE status level of the subcontractor
- (iv) Is the subcontractor an EME? YES/NO

5.3 Declaration with regard to Company/Firm

- (i) Name of Company/Firm
- (ii) VAT registration number.....
- (iii) Company registration number.....
- (iv) Type of Company / Firm [TICK APPLICABLE BOX]

☐ Partnership/Joint Venture/Consortium

☐ One person business/sole propriety

☐ Close Corporations

☐ Company (Pty) Ltd

- (v) Describe Principal Business Activities

.....
.....

- (vi) Company Classification [TICK APPLICABLE BOX]

☐ Manufacturer

☐ Supplier

☐ Professional Service Provider

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- ☐ Other Service Providers, e.g Transporter, etc
- (vii) Total number of years the company/firm has been in business.....

BID DECLARATION

I/we, the undersigned, who warrants that he/she is duly authorised to do so on behalf of the company/firm, certify that points claimed, based on the B-BBEE status level of contribution indicated in paragraph 4 above, qualifies the company/firm for the preference(s) shown and I / we acknowledge that:

- (i) The information furnished is true and correct.
- (ii) In the event of a contract being awarded as a result of points claimed as shown in paragraph 6 above, the contractor may be required to furnish documentary proof to the satisfaction of Transnet that the claims are correct.
- (iii) If the B-BBEE status level of contribution has been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, Transnet may, in addition to any other remedy it may have:
 - (a) disqualify the person from the bidding process;
 - (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
 - (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
 - (d) restrict the Bidder or contractor, its shareholders and directors, and/or associated entities, or only the shareholders and directors who acted in a fraudulent manner, from obtaining business from Transnet for a period not exceeding 10 years, after the *audi alteram partem* [hear the other side] rule has been applied; and/or
 - (e) forward the matter for criminal prosecution.

WITNESSES:

1.
2.

SIGNATURE OF BIDDER

DATE:.....

COMPANY NAME:

ADDRESS:.....

Respondent's Signature

Date & Company Stamp



ANNEXURE B : B-BBEE IMPROVEMENT PLAN

Transnet encourages its Suppliers/Service Providers to constantly strive to improve their B-BBEE rating. Whereas Respondents will be allocated points in terms of a preference point system based on its B-BBEE scorecard, in addition to such scoring, Transnet also requests that Respondents submit a B-BBEE improvement plan. Respondents are therefore requested to indicate the extent to which their ownership, management control, Supplier Development, Preferential Procurement and Enterprise Development will be maintained or improved over the contract period.

Respondents are requested to submit their B-BBEE Improvement Plan as an additional document with their Proposals.

Respondents are to insert their current status (%) and future targets (%) for the B-BBEE Improvement Plan [i.e. not the % change but the end-state quantum expressed as a percentage] in the table below. This will indicate how you intend to sustain or improve your B-BBEE rating over the contract period. On agreement, this will represent a binding commitment to the successful Respondent.

Transnet reserves the right to request supporting evidence to substantiate the commitments made in the B-BBEE Improvement Plan.

OWNERSHIP INDICATOR	Required Responses	Current Status (%)	Future Target (%)
1. The percentage of the business owned by Black ¹ persons.	<i>Provide a commitment based on the extent to which ownership in the hands of Black persons as a percentage of total ownership of the organisation would be sustained or increased over the contract period.</i>		
2. The percentage of your business owned by Black women.	<i>Provide a commitment based on the extent to which ownership in the hands of Black women as a percentage of total ownership of the organisation would be sustained or increased over the contract period.</i>		
3. The percentage of the business owned by Black youth ²	<i>Provide a commitment based on the extent to which ownership in the hands of Black youth as a percentage of total ownership of the organisation would be sustained or increased over the contract period.</i>		
4. The percentage of the business owned by Black persons living with disabilities	<i>Provide a commitment based on the extent to which ownership in the hands of Black disabled persons as a percentage of total ownership of the organisation would be sustained or increased over the contract period.</i>		
5. New Entrants ³ (Early stage business)	<i>Provide a commitment based on the extent to which new entrants will be supported over the contract period.</i>		

1 "Black" means South African Blacks, Coloureds and Indians, as defined in the B-BBEE Act, 53 of 2003

2 "Black youth" means Black persons from the age of 16 to 35

3 "New Entrants" means an early stage business which is similar to a start-up. However, an early stage business is typically 3 years old or less.

MANAGEMENT CONTROL INDICATOR	Required Responses	Current Status (%)	Future Targets (%)
6. The percentage of Black Board members in relation to the total number of Board members	<i>Provide a commitment based on the extent to which the number of Black Board members, as a percentage of the total Board, would be sustained or increased over the contract period.</i>		
7. The percentage of Black female Board members in relation to the total number of Board members	<i>Provide a commitment based on the extent to which the number of Black female Board members, as a percentage of the total Board, would be sustained or increased over the contract period.</i>		
8. Black Executives directors as a percentage of all executive directors	<i>Provide a commitment based on the extent to which the number of Black executive Directors as a percentage of all Executive Directors would be sustained or increased over the contract period.</i>		
9. Black female Executives directors as a percentage of all executive directors	<i>Provide a commitment based on the extent to which the number of Black female executive Directors as a percentage of all Executive Directors would be sustained or increased over the contract period.</i>		
Other Executive Management	Required Response	Current Status (%)	Future Targets (%)
10. Black Executive Management as a percentage of all executive directors	<i>Provide a commitment based on the extent to which the number of Black executive Managers as a percentage of all Executive Directors would be sustained or increased over the contract period.</i>		
11. Black Female Executive Management as a percentage of all executive directors	<i>Provide a commitment based on the extent to which the number of Black female Executive Managers as a percentage of all Executive Directors would be sustained or increased over the contract period.</i>		
Senior Management	Required Response	Current Status (%)	Future Targets (%)
12. Black employees in Senior Management as a percentage of all senior management	<i>Provide the percentage of Blacks that would be appointed or retained by the Board and would be operationally involved in the day to day senior management of the business, with individual responsibility for overall and/or financial management of the business and actively involved in the development and implementation of overall strategy, over the contract period.</i>		
13. Black female employees in Senior Management as a percentage of all senior management	<i>Provide the percentage of Black females that would be appointed or retained by the Board and would be operationally involved in the day to day senior management of the business, with individual responsibility for overall and/or financial management of the business and actively involved in the development and implementation of overall strategy, over the contract period.</i>		
Middle Management	Required Response	Current	Future

		Status (%)	Targets (%)
14. Black employees in Middle Management as a percentage of all middle management	<i>Provide the percentage of Blacks that would be retained or appointed by the organisation in the middle management cadre and would be operationally involved in the day to day management of the business, with individual responsibility for a particular area within the business and actively involved in the day to day management of the organisation, over the contract period.</i>		
15. Black female employees in Middle Management as a percentage of all middle management	<i>Provide the percentage of Blacks females that would be retained or appointed by the organisation in the middle management cadre and would be operationally involved in the day to day management of the business, with individual responsibility for a particular area within the business and actively involved in the day to day management of the organisation, over the contract period.</i>		
Junior Management	Required Responses	Current Status (%)	Future Targets (%)
16. Black employees in Junior management as a percentage of all junior management	<i>Provide a commitment based on the extent to which the number of Black Junior Managers as a percentage of the total junior Managers, would be sustained or increased over the contract period.</i>		
17. Black female employees in Junior management as a percentage of all junior management	<i>Provide a commitment based on the extent to which the number of Black female Junior Managers as a percentage of the total junior Managers, would be sustained or increased over the contract period.</i>		
Employees with disabilities	Required Response	Current Status (%)	Future Targets (%)
18. Black employees with disabilities as a percentage of all employees	<i>Provide a commitment based on the extent to which the percentage of Black disabled employees, in relation to the total of all employees in the organisation, would be sustained or increased over the contract period.</i>		
PREFERENTIAL PROCUREMENT INDICATOR	Required Responses	Current Status (%)	Future Targets (%)
19. B-BBEE procurement spend from all Empowering Suppliers ⁴ based on the B-BBEE procurement	<i>Provide a commitment based on the extent to which B-BBEE spend from all Empowering Suppliers would be sustained or increased over the contract period.</i>		

⁴ "Empowering Suppliers" means a B-BBEE compliant entity, which should meet at least three of the following criteria if it is a Large Enterprise or one if it is a QSE:

(a) At least 25% of cost of sales excluding labour cost and depreciation must be procured from local producers or local supplier in SA, for service industry labour cost are included but capped to 15%.

(b) Job creation - 50% of jobs created are for Black people provided that the number of Black employees since the immediate prior verified B-BBEE Measurement is maintained.

(c) At least 25% transformation of raw material/beneficiation which include local manufacturing, production and/or assembly, and/or packaging.

(d) Skills transfer - at least spend 12 days per annum of productivity deployed in assisting Black EMEs and QSEs beneficiaries to increase their operation or financial capacity.

	recognition level as a percentage of total measured procurement spend			
20.	20 B-BBEE procurement spend from all Empowering Suppliers QSEs based on the applicable B-BBEE Procurement Recognition Levels as a percentage of Total Measured Procurement Spend	<i>Provide a commitment based on the extent to which B-BBEE spend from Empowering Supplier QSEs would be sustained or increased over the contract period</i>		
21.	B-BBEE procurement spend from Exempted Micro-Enterprise based on the applicable B-BBEE procurement recognition Levels as a percentage of Total Measured Procurement Spend	<i>Provide a commitment based on the extent to which B-BBEE spend from EMEs would be sustained or increased over the contract period</i>		
22.	B-BBEE procurement spend from Empowering Suppliers that are at least 51% black owned based on the applicable B-BBEE Procurement Recognition Levels as a percentage of Total Measured Procurement Spend	<i>Provide a commitment based on the extent to which spend from Empowering Suppliers who are more than 51% Black-owned would be maintained or increased over the contract period.</i>		
23.	B-BBEE procurement spend from Empowering Suppliers that are at least 30% black women owned based on the applicable B-BBEE Procurement Recognition Levels as a percentage of Total Measured Procurement Spend	<i>Provide a commitment based on the extent to which spend from Empowering Suppliers who are more than 30% Black women-owned would be maintained or increased over the contract period.</i>		
24.	B-BBEE Procurement spend from Designated Group ⁵ Suppliers that are at least 51% Black owned	<i>Provide a commitment based on the extent to which spend from suppliers from Designated Group Suppliers that are at least 51% Black owned would be maintained or increased over the contract period.</i>		

⁵ "Designated Groups" means:

- a) unemployed black people not attending and required by law to attend an educational institution and not awaiting admission to an educational institution;
- b) black people who are youth as defined in the National Youth Commission Act of 1996;
- c) black people who are persons with disabilities as defined in the Codes of Good Practice on employment of people with disabilities issued under the Employment Equity Act;
- d) black people living in rural and under developed areas; and
- e) black military veterans who qualifies to be called a military veteran in terms of the Military Veterans Act 18 of 2011.

SUPPLIER DEVELOPMENT INDICATOR	Required Response	Current Status (%)	Future Target (%)
25. Annual value of all Supplier Development ⁶ Contributions made by the Measured entity as a percentage of the target	<i>Provide a commitment based on the percentage in your organisation's annual spend on Supplier Development initiatives, will be maintained or improved over the contract period.</i>		
ENTERPRISE DEVELOPMENT INDICATOR	Required Response	Current Status (%)	Future Target (%)
26. The organisation's annual spend on Enterprise Development ⁷ as a percentage of Net Profit after Tax [NPAT]	<i>Provide a commitment based on the retention or increase in your organisation's annual spend on Enterprise Development initiatives, as a percentage of its Net Profit after Tax, over the contract period.</i>		

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⁶ **"Supplier Development"** means monetary or non-monetary contributions carried out for the benefit of value-adding suppliers to the Measured Entity, with the objective of contributing to the development, sustainability and financial and operational independence of those beneficiaries:

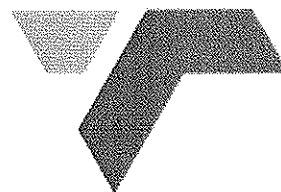
(a) Supplier Development Contributions to suppliers that are Exempted Micro-Enterprises or Qualifying Small Enterprises which are at least 51% black owned or at least 51% black women owned.

Supplier Development within the context of the B-BBEE scorecard must be differentiated from Transnet's Supplier Development Initiatives. Whereas the former relates to the definition above, the latter relates to improving the socio-economic environment through initiatives that are committed to as part of a contract award that contribute to the development of a competitive supplier base in relation to a particular industry.

⁷ **"Enterprise Development"** means monetary and non-monetary contributions carried out for the following beneficiaries, with the objective of contributing to the development, sustainability and financial and operational independence of those beneficiaries:

(a) Enterprise Development Contributions to Exempted Micro-Enterprises or Qualifying Small Enterprises which are at least 51% Black owned or at least 51% Black women owned;

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



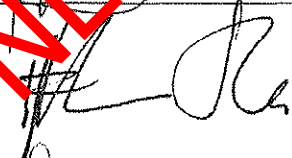

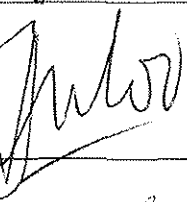
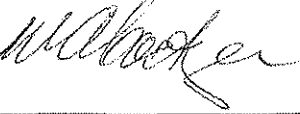
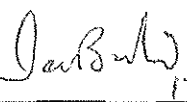

(This specification shall be used in network operator contracts)

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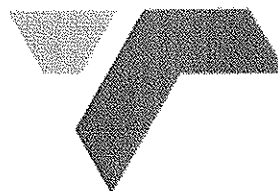
**SPECIFICATION FOR GENERAL WORK AND WORKS ON, OVER, UNDER OR
ADJACENT TO RAILWAY LINES AND NEAR HIGH VOLTAGE EQUIPMENT**

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Date: May 2011

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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's 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 3 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.

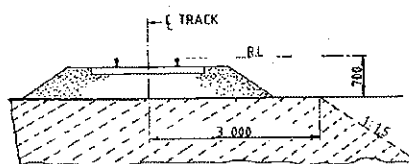


Fig. 1.

- 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 500m 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-, telecommunications- 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-, telecommunications- 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 its 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, workplace 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 or 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.

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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 or 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 shoring 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 DANGEROUS 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"

HORIZONTAL CLEARANCES : 1 065mm TRACK GAUGE

ANNEXURE 1
SHEET 1 of 5

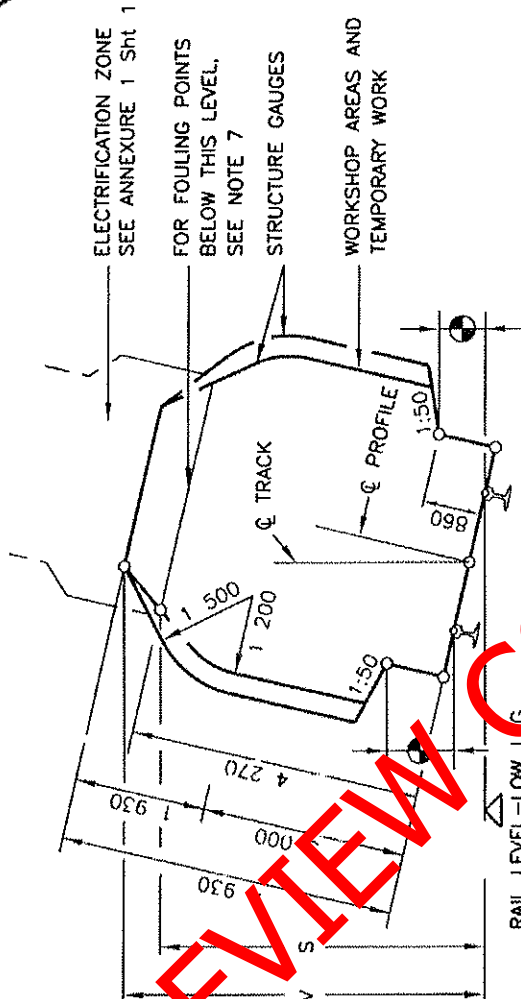


RADIUS (m)	WITH CANT		NO CANT	
	H (mm)	L (mm)	H & L	B (mm) C (mm)
90	2 730	3 090	2 780	1 150 2 100
100	2 700	3 030	2 750	1 140 2 050
120	2 650	2 970	2 700	1 160 2 010
140	2 620	2 920	2 660	1 175 1 970
170	2 590	2 870	2 630	1 190 1 970
200	2 570	2 820	2 600	1 205 1 950
250	2 550	2 790	2 580	1 230 1 920
300	2 540	2 760	2 560	1 250 1 900
350	2 530	2 730	2 540	1 270 1 890
400	2 520	2 710	2 530	1 290 1 875
500	2 510	2 680	2 520	1 320 1 850
600	2 500	2 660	2 510	1 340 1 830
800	2 490	2 620	2 500	1 365 1 790
1 000	2 480	2 600	2 490	1 380 1 760
1 200	2 480	2 580	2 490	1 200 1 730
1 500	2 480	2 550	2 480	1 415 1 700
2 000	2 480	2 500	2 480	1 440 1 660
3 000	2 470	2 470	2 470	1 500 1 600
>5 000	2 460	2 460	2 460	1 500 1 600

REMARKS:


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

ANNEXURE 1
SHEET 2 of 5



LOCATION		NOT ELECTRIFIED	ELECTRIFIED (PRESENT OR FUTURE)	
	RADIUS (mm)	S (mm)	V (mm) 3kV & 25kV	V (mm) 50kV
ALL AREAS OTHER THAN THOSE INDICATED BY * BELOW	100	4 470	5 050	5 400
	300	4 410	5 020	5 370
	600	4 370	5 000	5 350
	1 000	4 350	4 990	5 340
	1 500	4 310	4 960	5 310
	2 000	4 290	4 940	5 290
	>3 000	4 270	4 930	5 280
* OVER OR NEAR POINTS AND CROSSING IF REQUIRED BY ELECTRICAL IRRESPECTIVE OF RADIUS			5 650	6 000

REMARKS:

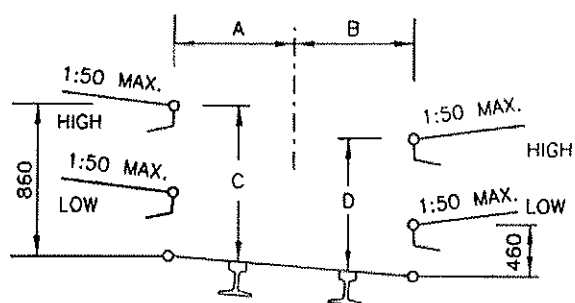
1. V IS THE REQUIRED VERTICAL CLEARANCE EXCEPT WHERE REDUCED CLEARANCE S APPLIES.
2. S IS THE MINIMUM VERTICAL CLEARANCE FOR STRUCTURES AND TEMPORARY WORK OVER NON-ELECTRIFIED LINES.
3. INTERMEDIATE VALUES MAY BE INTERPOLATED BY THE ENGINEER IN CHARGE.
4. FOR APPLICATION AT CURVES
 - 4.1 APPLY INCREASED CLEARANCES FOR CURVES TO POINTS 3m 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 15m ALONG STRAIGHTS.
5. NEW STRUCTURES: SEE BRIDGE CODE.
6. TUNNELS: SEE DRAWING BE 82-35.
7. FOULING POINTS: SEE CLAUSE 8.1.
8. CLEARANCES ARE BASED ON 15m BOGIE CENTRES AND 21.2m VEHICLE BODY LENGTH.
9.  SEE ANNEXURE 1 SHEET 3 FOR PLATFORM CLEARANCES.

CLEARANCES : PLATFORMS

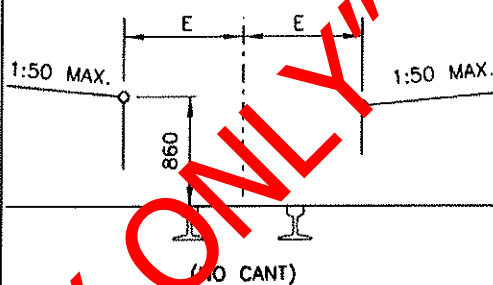
ANNEXURE 1
SHEET 3 of 5

PLATFORMS : TRACK GAUGE 1 065mm

PASSENGERS



GOODS

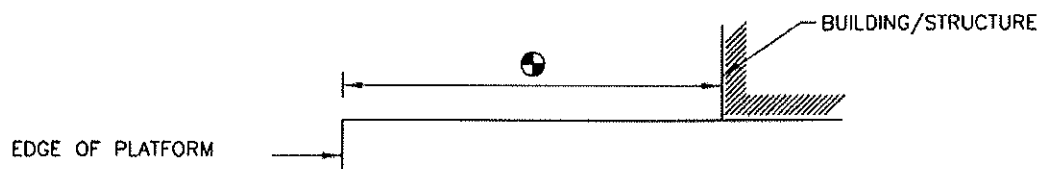


RADIUS (m)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
90	1 690	1 820	890	810	1 840
100	1 650	1 790	890	810	1 810
120	1 610	1 740	890	810	1 760
140	1 580	1 700	890	810	1 720
170	1 550	1 660	890	810	1 690
200	1 530	1 630	890	820	1 670
250	1 520	1 600	890	820	1 640
300	1 520	1 580	890	830	1 620
350	1 520	1 560	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:

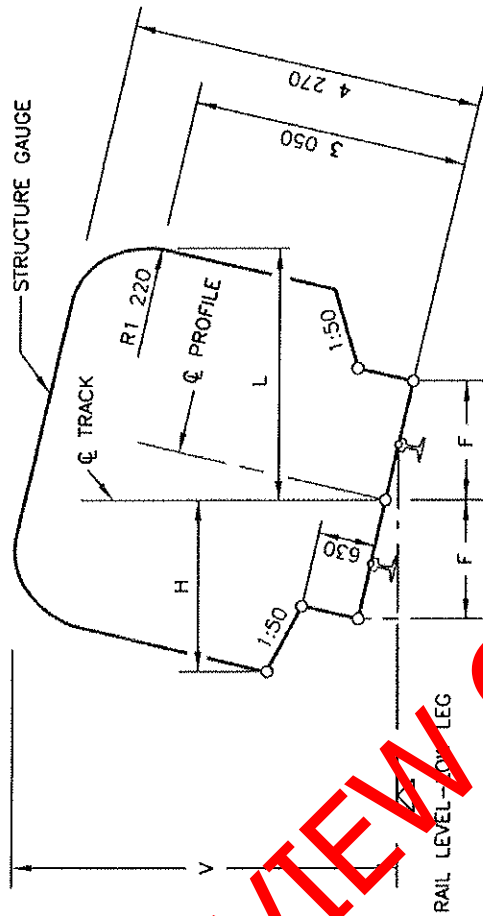
1. NO CANT TO BE APPLIED EXCEPT WHEN THE GOODS PLATFORM IS ON A RUNNING LINE.
2. INTERMEDIATE VALUES MAY BE INTERPOLATED BY THE ENGINEER IN CHARGE.
3. 8m TO MAIN STATION-BUILDINGS AND 3m TO ALL OTHER STRUCTURES.
4. TOLERANCES : SEE CLAUSE 8.0.10.
5. ALWAYS USE THE SMALLEST RADIUS

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



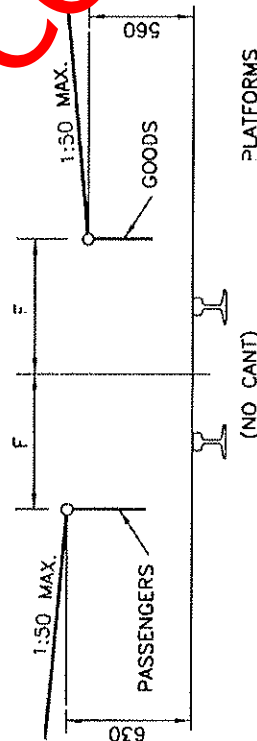
CLEARANCES : 610mm TRACK GAUGE

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
600	1 330
1 000	1 320
>2 000	1 320
STRAIGHT	1 310

CLEARANCES



RADIUS (m)	WITH CANT		NO CANT H & L (mm)	V (mm)
	H (mm)	L (mm)		
50	2 370	2 490	2 400	3 300
70	2 310	2 420	2 330	3 110
100	2 260	2 370	2 280	2 910
140	2 220	2 340	2 250	2 710
200	2 200	2 300	2 220	2 500
300	2 190	2 270	2 200	2 300
500	2 180	2 230	2 190	2 090
700	2 170	2 200	2 180	1 870
1 000	2 170	2 170	2 170	1 650
>2 000	2 160	2 160	2 160	1 430

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.