TRANSNEL



freight rail

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

REQUEST FOR QUOTATION

KBY/52617

Disposal of hazardous waste (ballast waste spoil containing lead) along the ore line from loop 10 at Halfweg in the Northern Cape Province to the Port of Saldanha Bay in the Western Cape Province

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



Transnet Freight Rail, a division of

TRANSNET SOC LTD

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

REQUEST FOR QUOTATION [RFQ] No KBY/52617

ONCE OFF DISPOSAL OF HAZARDOUS WASTE (BALLAST WASTE SPOIL CONTAINING LEAD) ALONG THE IRON ORE LINE FROM LOOP 10 AT HALFWEG IN THE NORTHERN CAPE PROVINCE TO THE PORT OF SALDANHA BAY IN THE WEATERN CAPE PROVINCE

FOR DELIVERY TO: TRANSNET FREIGHT RAIL ENVIRONMENTAL MANAGEMENT BLOEMFONTEIN

ISSUE DATE:

19 NOVEMBER 2013

CLOSING DATE:

10 DECEMBER 2013

CLOSING TIME:

10:00

Section 1 NOTICE TO BIDDERS

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

METHOD:

Tender Box

CLOSING VENUE:

Transnet Freight Rail, Property Management Building, Austen Street,

Beaconsfield

1 Responses to RFQ

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

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

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

2.1 B-BBEE Scorecard and Rating

As prescribed in terms of the Preferential Procurement Policy Framework Act (PPPFA), Act 5 of 2000 and its Regulations, Respondents are to note the following:

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

In compliance with the Government Gazette No 34612, Notice No. 754 dated 23 September 2011, as from 1 October 2011 valid 8-BBEE Verification Certificates must be issued by:

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

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

- a) Large Enterprises (i.e. annual turnover greater than R35 million):
 - Rating level based on all seven elements of the B-BBEE scorecard

- b) Qualifying Small Enterprises QSE (i.e. annual turnover between R5 million and R35 million):
 - · Rating based on any four of the elements of the 8-88EE scorecard
- c) **Exempted Micro Enterprises EME** [i.e. annual turnover less than R5 million]:

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

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

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

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

Transnet will accordingly allocate a maximum of 10 [ten] points in accordance with the 90/10 preference point system prescribed in the Preferential Procurement Policy Framework Act (PPPFA), Act 5 of 2000 and its Regulations to the Respondent's final score based on an entity's B-BBEE scorecard rating. [Refer Annexure A - B-BBEE Preference Points Claim Form for further details].

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

[Refer clause 18 below for Returnable Documents required]

3 Communication

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

Name: Mr.Sam Fiff, Manager EHFES, 051 408 2565, 083 284 3619

Email: Sam.fiff@transnet.net

Or

Ms.Paulita Neumann –Whon. Environmental Consultant, 021 940 2976, 081 030 8522 fax 021 940 2447

4 Tax Clearance

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

5 VAT Registration

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

6 Legal Compliance

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

7 Changes to Quotations

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

8 Pricing

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

9 Prices Subject to Confirmation

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

10 Negotiations

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

11 Binding Offer

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

12 Disclaimers

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

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

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

Respondent's Signature Date & Company Stamp

I/we	do hereby certify that <i>I/we</i>
have/have not been found guilty during the preceding 5 [five] years	of a serious breach of law,
including but not limited to a breach of the Competition Act, 89 of 1998,	by a court of law, tribunal or
other administrative body. The type of breach that the Respondent is	required to disclose excludes
relatively minor offences or misdemeanours, e.g. traffic offences.	
Where found guilty of such a serious breach, please disclose:	
NATURE OF BREACH:	
DATE OF BREACH:	

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

13 Evaluation Criteria

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

- · 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
- Technical threshold of 70%: Compliance to specification / quality, previous performance, delivery lead-time
- Weighted evaluation based on 90/10 preference point system as indicated in paragraph 2 above:
 - Pricing and price basis [firm] whilst not the sole factor for consideration, competitive pricing and overall level of unconditional discounts¹ will be critical
 - B-BBEE status of company

Preference points will be awarded to a bidder for attaining the B-BBEE status level of contribution in accordance with the table below:

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

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

Respondent's Signature Date & Company Stamp

7	4
8	2
Non-compliant	0
contributor	

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

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

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

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

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

Returnable Documents	Submitted [Yes or No]
SECTION 1 : Notice to Bidders	
- Valid B-BBEE Verification Certificate [RSA Large Enterprises and QSEs]	
Note: failure to provide a valid B-BBEE Verification Certificate at the date and time of the tender will result in an automatic score of zero	

below.

Returnable Documents	Submitted [Yes or No]
allocated for B-BBEE scorecard	
 Valid B-BBEE certificate from auditor, accounting officer or SANAS accredited Verification Agency [RSA EMEs] 	
Note: failure to provide a valid B-BBEE Verification Certificate at the closing date and time of the tender will result in an automatic score of zero being allocated for B-BBEE scorecard	
 In the case of Joint Ventures, a copy of the Joint Venture Agreement or written confirmation of the intention to enter into a Joint Venture Agreement 	
SECTION 2 : Quotation Form	
SECTION 3: Vendor Application Form	
 Original cancelled cheque or bank verification of banking details 	
 Certified copies of IDs of shareholder/directors/members [as applicable] 	
 Certified copy of Certificate of Incorporation [CM29/CM9 name change] 	
Certified copy of share certificates [CK1/CK2 if C.C.]	
Entity's letterhead	
Certified copy of VAT Registration Certificate [RSA entities only]	
Certified copy of valid Company Registration Certificate [if applicable]	
 Original valid Tax Clearance Certificate [Consortia / Joint Ventures / Sub- contractors must submit a separate Tax Clearance Certificate for each party] 	
Compulsory Returnable Document – Letter of Good Standing	
ANNEXURE A – Scope of Requirements and Special Conditions	

Section 2 QUOTATION FORM

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

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

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

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

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

Price Schedule

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

Project S	SCHEDUL Specification for removal ar	E OF WORK And disposal of F			Asbestos)
	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
TRAVEL	LDV Responder		KM		
	Vehicle call out				
	LDV Responder		KM	_	
	Vehide per km				
	Accommodation		P/P/P		
LABOUR	Supervisor		HOUR		
	Skilled labour		HOUR		
	Yellow asbestos				
CONSUMEBLES	recovery bags				
	Basic PPE				
	Asbestos overall				
	Recovery bags				
	FF2 Face masks				
	Plastic sheeting				
HAZARDOUS WASTE	Disposal		PER TON		
	Removal	.,,	PER TON		
Equipment	Water pumper				
	Pump sprays				
	Skips				
	Decon Unit				
	Bin Rental				****
AIA	Work plan		EACH		
	Notification to the		EACH		
	department of labour				
	Site inspection and		DAILY		
	asbestos sampling				
	Travel &				
	Accommodation				
Sundries	Courier costs		<u> </u>		
	Typing/Binding of				
	report/costing &				ļ
	invoice/waste				
	documents				
	Legal Compliance and				

Respondent's Signature Date & Company Stamp

Certification		
Reports and costing,		
document		
Courier costs		
SUB TOTAL		
VAT		
TOTAL		



Date & Company Stamp

Section 3

Transnet Supplier Declaration/Application

The Financial Director or Company Secretary

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

- Complete the "Supplier Declaration Form" (SDF) on page 2 of this letter
- 2. Original cancelled cheque OR letter from the bank verifying banking details (with bank stamp)
- 3. Certified copy of Identity document of Shareholders/Directors/Members (where applicable)
- 4. Certified copy of certificate of incorporation, CM29 / CM9 (name change)
- 5. Certified copy of share Certificates of Shareholders, CK1 / CK2 (if CC)
- 6. A letter with the company's letterhead confirming physical and postal addresses
- 7. Original or certified copy of SARS Tax Clearance certificate and Vat registration certificate
- A signed letter from the Auditor / Accountant confirming most recent annual turnover and percentage black ownership in the company AND/OR BBBEE certificate and detailed scorecard from an accredited rating agency (SANAS member).
- NB: Failure to submit the above documentation will delay the vendor creation process.
 - Where applicable, the respective Transnet business unit processing your application may request further information from you. E.g. proof of an existence of a Service/Business contract between your business and the respective Transnet business unit etc.

IMPORTANT NOTES:

Regards

Respondent's Signature

- a) If your annual turnover is less than R5 million, then in terms of the DTI codes, you are classified as an Exempted Micro Enterprise (EME). If your company is classified as an EME, please include in your submission, a signed letter from your Auditor / Accountant confirming your company's most recent annual turnover is less than R5 million and percentage of black ownership and black female ownership in the company AND/OR BBBEE certificate and detailed scorecard from an accredited rating agency (e.g. permanent SANAS Member), should you feel you will be able to attain a better BBBEE score.
- b) If your annual turnover is between R5 million and R35million, then in terms of the DTI codes, you are classified as a Qualifying Small Enterprise (QSE) and you claim a specific BBBEE level based on any 4 of the 7 elements of the BBBEE score-card, please include your BEE certificate in your submission as confirmation of your status.
 - NB: BBBEE certificate and detailed scorecard should be obtained from an accredited rating agency (e.g. permanent SANAS Member).
- c) If your annual turnover is in excess of R35million, then in terms of the DTI codes, you are classified as a Large Enterprise and you claim a specific BEE level based on all seven elements of the BBBEE generic score-card. Please include your BEE certificate in your submission as confirmation of your status.
 - NB BBBEE certificate and detailed scorecard should be obtained from an accredited rating agency (permanent SANAS Member).
- d) To avoid PAYE tax being automatically deducted from any invoices received from you, you must also contact the Transnet person who lodged this request on your behalf, so as to be correctly classified in terms of Tax legislation.
- Unfortunately, <u>No payments can be made to a vendor until</u> the vendor has been registered, and no vendor can be registered until the vendor application form, together with its supporting documentation, has been received and processed.
- f) Please return the completed Supplier Declaration Form (SDF) together with the required supporting documents mentioned above to the Transnet Official who is intending to procure your company's services/products in order that he/she should complete and Internal Transnet Departmental Questionnaire before referring the matter to the appropriate Transnet Vendor Master Office.

regards,	

Supplier Declaration Form

Company Tradin	g Name								
Company Regist	ered Name								
Company Registr	ation Number	Or ID Numbe	r If A Sole F	roprieto	ŗ				
Form of entity	CC	Trust Pty Ltd Limited Partnership Sole Proprie						tor	
VAT number (if r	egistered)					00000000000000000000000000000000000000		, , , , , , , , , , , , , , , , , , ,	
Company Telepi									
Company Fax N				····			***************************************		
Company E-Mail									
Company Websi	te Address								
Bank Name	•		Ba	nk Acco	unt N	umber			
Postal Address							Co	de	
Physical								ide j	
Address							Co	de	·········
Contact Person	••••••••••••••				CTD04CKNOW	anii cayii mayaania ah-ak-acaya ca		1	************
Designation						7			
Telephone				4					
Email				1					••••
Annual Turnover F	Range (Last Fi	nancial Year)	< R5 Millio	n	R	5-35 million		> R35 million	
Does Your Comp	any Provide		Products		S	ervices		Both	
Area Of Delivery			National		Pi	rovincial		Local	
Is Your Company	Private Entity	ivate Entity		P	ublic		Private		
······································		ax Directive Or IRP30 Certificate		Y	Yes		No		
Main Product Or Service Supplied (E.G.; Stationery/Consulting)									
BEE Ownership	Details								
% Black Ownership		% Black wome	n ownership				ed person/s ership		
Does your company have a BEE certificate				Yes	3	No			
What is your bro	ad based BE	E status (Lev	el 1 to 9 / L	nknowr	vn)				
How many perso	nnel does th	e firm employ	P	ermane	nt		Part time		
Transnet Contac	t Person								
Contact number	XI								
Transnet operati	ng division								
Duly Authorised	d To Sign Fo	or And On Be	half Of Fir	m / Org	anis	ation			
Name	Designation								
Signature		Date							
Stamp And Sigi	nature Of Co	ommissioner	Of Oath						
Name					Date)			
Signature					Tele	phone No.			
***************************************	•								



ENVIRONMENTAL MANAGEMENT

PO BOX 255 Bloemfontein 9300 Nathan Street Bloemfontein

9300

Date: December 2012 Tel: 021 940 2976

<u>Terms of reference — Disposal of Hazardous waste (Ballast Waste Spoil containing Lead) along the Iron Ore Line from Loop 10 at Halfweg in the Northern Province to the Port of Saldanha Bay in the Western Cape Province</u>

1. PURPOSE OF THE CONTRACT

The purpose of this Contract is to arrange the provision of the specialist contracting service required for the disposal of Hazardous substance \ ballast spoil (Lead) that is found in stockpiles along the Iron Ore Line from Loop 10 at Halfweg in the Northern Cape Province to the port of Saldanha Bay in the Western Cape Province.

2. BACKGROUND

Transnet Freight Rail is transporting lead concentrate from the mining operation of Black Mountain Mine – Anglo Group, to the Port of Saldanha, both within the country and for export. Due to this, some areas along the railway lines have become contaminated from spillages or improper handling.

The Volumetric Survey Report (January 2012) recommended that a clean- up programme be instituted based on the contamination levels and potential for workers and public health risk exposure. However, the report also alludes to resampling of certain areas along the line.

The majority of contaminated sites occur from loop 10 down to the Port of Saldanha with fairly high concentrations in the last 110Km. The approximate volume is 160 cubes (156.007 cubes). This is posing great health risk to the workers and the public. The health hazards/ risks associated with exposure to lead concentration materials, particularly airborne particles are very severe and cannot be quantified in monetary terms.

It is against this background that Environment, Hazmat, Fire and Emergency Services, is requesting permission to appoint a suitable contractor to remediate lead contamination at the sites along the line from loop 10 down to the Port of Saldanha.

3. SCOPE OF WORK

The work shall involve the removal and disposal of the lead concentrate polluted ballast spoils product to a certified disposal site.

 Conduct initial air monitoring to determine background air- borne dust particles levels on each site. The procedure to be followed in this regard should be in accordance with the requirements of Approved Inspection Authority (AIA). Samples must be analysed by an accredited laboratory.

- Transport all contaminated materials and dispose them at the nearest permitted hazardous waste landfill site.
- Upon completion, conduct a final air monitoring to assess the levels of airborne particles on each cleaned site.
- Submit copies of all waste disposal slips / receipts showing the amount of lead waste disposed of, date, price, etc.
- Submit copies of all air monitoring results and the AIA Certificates declaring the sites clean.

NB: Should there be any need for deviation from the above scope of work; the Contractor must obtain a written approval from Transnet Freight Rail Environment, Hazmat, Fire and Emergency Services Office, prior to effecting the changes.

4. NATURE OF WORK

The contractor is expected to:

- Dispose of approximately 156.007 m3 ballast waste which contains varied levels of lead (high lead content was found on the last 110km section of the line).
- Please note that the report indicates that lead was present in the last 10 stockpiles (from 180-190), however there are no volume amounts for stockpiles 189 and 190.
 The 8 stockpiles amount to 156.077 cubes.
- If any other waste is disposed of, the environmental consultant must be contacted otherwise; additional costs shall be attributed to the contractor.
- Dispose of contents at a registered landfill site,
- To provide Transnet with a copy the disposal certificate;
- Contractors own operational work plan;
- Provisional costing estimates

After consideration the following option was agreed upon:

Removal of the ballast waste identified, stockpile the ballast waste in a temporary stock pile area located in Saldanha Bay and then transport the ballast waste to Class H:H landfill site for disposal

5. TO BE SUPPLIED BY TRANSNET FREIGHT RAIL

Transnet Freight Rail personnel to supervise/oversee the process (collection, transportation and proper disposal of material at registered landfill site).

6. TO BE SUPPLIED BY THE TENDERER

All equipment and required PPE necessary to remove and dispose (as per legal requirements) of the contaminated ballast waste along the line.

A method statement describing all operations and how the process will flow (cradle to grave). Contractors own operational work plan; Provisional costing estimates.

An environmental technical report on the work carried upon completion to satisfy both TFR and Government authorities' requirements

A safe waste disposal certificate and report thereof.

7. COMMENCEMENT OF WORK

Work shall commence immediately after the award of the contract for completion with a reasonable agreed upon period.

8. CONFIDENTIALITY

The matter is regarded as strictly confidential between Transnet Freight Rail and the prospective Tenders and must be treated as such. Any interaction with the media or other parties for the purpose of communication shall be permitted only via the Transnet Freight Rail Corporate Affairs office.

9. TERMINATION OF CONTRACT

Transnet Freight Rail shall have the right to terminate the contract on grounds of nonperformance or unsatisfactory performance on the part of the Service Provider in the execution of the work.

10. FINAL INSPECTION OF THE WORK

The Transnet Freight Rail Environmental Consultant shall inspect the work upon completion.

11. STANDING TIME

This contract does not make provision for the time lost due to rain, inclement weather or any other cause. Any such time lost or production shall be to the successful Service Provider's account.

12. MEASUREMENT AND PAYMENT

On completion of the work Transnet Freight Rail shall pay a full amount as per the waste manifest from the weight-bridge and safe disposal certificate.

13. EMPOWERMENT OF PREVIOUSLY DISADVANTAGED COMMUNITIES

The Service Provider's proposals shall indicate the organization's contribution to the above, the extent to which Black Economic Empowerment will be advanced within the context of this proposal and the composition of the firm as per Transnet Freight Rail Procurement Policy and Procedures.

14. QUALIFICATIONS AND EXPERIENCE OF THE SPECIALIST CONTRACTOR

Given the responsible nature of the work envisaged under this contract, Transnet Freight Rail reserves the right to award the tender to an organization of choice, with due regard for a favorable balance between the cost of services, resources available and experience in the relevant field.

The lowest tender may therefore not necessarily be accepted. Unsuccessful Tenderness may be advised on reasons for acceptance or non-acceptance of any tender, without disclosure of any tender prices being given.

15. SPECIAL REQUEST



TRANSNET SOC LIMITED

(Registration no. 1990/000900//30)

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

1. General

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

2. Definitions

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

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

3. Procedural Compliance

- 3.1 The Contractor who intends to carry out any construction work shall, before carrying out such work, notify the Provincial Director in writing if the construction work:-
 - (a) includes the demolition of a structure exceeding a height of 3 metres; or
 - (b) includes the use of explosives to perform construction work; or
 - (c) includes the dismantling of fixed plant at a height greater than 3m,

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

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

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

4. Special Permits

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

5. Health and Safety Programme

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

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

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

6. Fall Protection Plan

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

- 6.2 The Contractor shall implement, maintain and monitor the fall protection plan for the duration of Contract. The Contractor shall also take such steps to ensure the continued adherence to the fall protection plan.
- 6.3 The fall protection plan shall include:-
 - (a) A Risk Assessment of all work carried out from an elevated position;
 - (b) the procedures and methods to address all the identified risks per location;
 - (c) the evaluation of the employees physical and psychological fitness necessary to work at elevated positions;
 - (d) the training of employees working from elevated positions; and
 - (e) the procedure addressing the inspection, testing and maintenance of all fall protection equipment.

7. Hazards and Potential Hazardous Situations

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

8. Health and Safety File

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

OCCUPATIONAL HEALTH AND SAFETY ACT, 1993

Regulation 3(1) of the Construction Regulations

NOTIFICATION OF CONSTRUCTION WORK

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

H. E	stimated maximum nur	er of persons on the construction site:
12. P	lanned number of contr	ors on the construction site accountable to the principle contracto
13.	Name(s) of contractor	ulready chosen.
——Princ	sipal Contractor	Date
	•	
——Clien	ıt	Date

- * THIS DOCUMENT IS TO BE FORWARDED TO THE OFFICE OF THE DEPARTMENT OF LABOUR **PRIOR TO COMMENCEMENT** OF WORK ON SITE.
- * <u>ALL PRINCIPAL CONTRACTORS</u> THAT QUALIFY TO NOTIFY MUST DO SO EVEN IF ANOTHER PRINCIPAL CONTRACTOR ON THE SAME SITE HAD DONE SO PRIOR TO THE COMMENCEMENT OF WORK.

(COMPANY LETTER HEAD)

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

SECTION/REGULATION:
REQUIRED COMPETENCY:
In terms of I,
representing the Employer) do hereby appoint
As the Competent Person on the premises at
(physical address) to assist in compliance with the Act and the applicable Regulations.
Your designated area/s is/are as follows:-
CO
Date:
Signature :-
Designation :-
ACCEPTANCE OF DESIGNATION
I, do hereby accept this Designation and acknowledge that I understand the requirements of this appointment.
Date:
Signature :-
Designation :-

(COMPANY LETTER HEAD)

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

DECLARATION

In terms of the above Act I,	am personally assuming the duties
and obligations as Chief Executive Officer, define	ed in Section 1 of the Act and in terms of Section 16(1), I will
as far as is reasonably practicable, ensure that the above Act are properly discharged.	duties and obligations of the Employer as contemplated in the
above Act are property discharged.	
Signature :-	
Date:	
· · · · · · · · · · · · · · · · · · ·	
•	
_ _ \ 	
▼ •	

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

SITE ACCESS CERTIFICATE

Access to:	(Area)
Name of Contractor/Builder :-	
Contract/Order No.:	
The contract works site/area described above a	re made available to you for the carrying out of associated works
In terms of your contract/order with (company)	
Kindly note that you are at all times responsit under your control having access to the site.	ole for the control and safety of the Works Site, and for persons
and Safety Act, 1993 (Act 85 of 1993) as amen	e for compliance with the requirements of the Occupational Health ded, and all conditions of the Contract pertaining to the site of the et documents including the plans of the site or work areas forming
Signed: TECHNICAL OFFICER	Date :
ACKNOWI	LEDGEMENT OF RECEIPT
Name of Contractor/Builder :-	
	do hereby acknowledge and accept the duties
and obligations in respect of the Safety of the Safety Act; Act 85 of 1993.	he site/area of Work in terms of the Occupational Health and
Name :	Designation :
Signature :	Date:

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

(This Specification shall be used in Transnet Contracts)

٥.

CONTENTS

CLAUSE NO'S	DESCRIPTION	PAGE
1.	<u>DEFINITIONS</u>	3
	PART A - GENERAL SPECIFICATION	
2.	Authority of officers of Transnet	4
3.	Contractor's representatives	4
4.	Occupations and work permits	4
5.	Speed restrictions and protection	5
6.	Roads on Transnet property	5
7.	Clearances	5
8.	Stacking of material	5
9.	Excavation, shoring, dewatering and drainage	5
10. 11.	Falsework for structures	6
11. 12.	Piling	6 6
12. 13.	Underground services Blasting	6
13. 14.	Rail trolleys	7
15.	Signal track circuits	7
16.	Penalty for delays to trains	7
10.	s enaity for delays to trains	,
	PART B - ADDITIONAL SPECIFICATION FOR WORK NEAR	HIGH-VOI TAGE
	ELECTRICAL EQUIPMENT	THOTI-VOLTAGE
17.	General	8
18.	Work on buildings of fixed structures	8
19.	Work done on or outside of rolling stock, including loading and unloading	8
20.	Use of equipment	9
21.	Carrying and handling material and equipment	9
22.	Precautions to be taken when erecting or removing	
	poles, antennae and trees	10
23.	Use of water	10
24.	Use of construction plant	10
25.	Work performed under dead conditions under cover	
^^	of a work permit	10
26.	Traction return circuits in rails	11
27.	Blasting	11
28.	High-voltage electrical equipment not maintained	
	and/or operated by Transnet	11

ANNEXES

1		Hor	izont	al c	learar	ces 1	065	mm	gauge	Э
---	--	-----	-------	------	--------	-------	-----	----	-------	---

- Vertical clearances 1 065 mm gauge Clearances 610 mm gauge Platform clearances 2.
- 3.
- 4.

1 DEFINITIONS

The following definitions shall apply:

<u>Authorised Person</u>. A person whether an employee of Transnet or not, who has been specially authorised to undertake specific duties in terms of Transnet's publication SAFETY INSTRUCTIONS: HIGH-VOLTAGE ELECTRICAL EQUIPMENT, 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 Transnet to carry out work on its behalf.

Dead. Isolated and earthed.

<u>Electrical Officer (Contracts)</u>. The person appointed in writing by the responsible Electrical Engineer in Transnet 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.

<u>Executive Officer</u>. The person appointed by Transnet 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 1 000 volts.

<u>Live</u>. 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.

<u>Near</u>. 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 Transnet 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.

<u>Project Manager</u>. The person or juristic person appointed by Transnet 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 staff under his control to work on, over, under or adjacent to railway lines and in the vicinity of high-voltage electrical equipment.

<u>Technical Officer</u>. The person or juristic person appointed by Transnet from time to time as the Technical Officer, to administer the Contractor's performance and execution of the Works according to the powers and rights held by and obligations placed upon the Technical Officer in terms of the Contract.

<u>Total Occupation</u>: 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.

PART A - GENERAL SPECIFICATION

2. AUTHORITY OF OFFICERS OF TRANSNET

- 2.1 The Contractor shall co-operate with the officers of Transnet and shall comply with all instructions issued and restrictions imposed with respect to the Works which bear on the existence and operation of Transnet's railway lines and high-voltage equipment.
- 2.2 Without limiting the generality of the provisions of 2.1, any duly authorised representative of Transnet, having identified himself, may stop the work if, in his opinion, the safe passage of trains or the safety of Transnet assets or any person is affected. CONSIDERATIONS OF SAFETY SHALL TAKE PRECEDENCE OVER ALL OTHER CONSIDERATIONS.

3. CONTRACTOR'S REPRESENTATIVES

- 3.1 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 Technical Officer with the names, addresses and telephone numbers of the representatives.
- 3.2 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. OCCUPATIONS AND WORK PERMITS

- 4.1 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 Technical Officer and at times to suit Transnet requirements.
- 4.2 The Contractor shall organise the Works in a manner, which will minimise the number and duration of occupations and work permits required.
- 4.3 Transnet 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.
- 4.4 The Contractor shall submit to the Technical Officer, in writing, requests for occupations or work permits together with details of the work to be undertaken, at least 14 days before they are required. Transnet does not undertake to grant an occupation or work permit for any particular date, time or duration.
- 4.5 Transnet 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 4.6 to 4.8.

- 4.6 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.
- 4.7 When the Contractor is notified less than 2 hours before the schedule 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.
- 4.8 Reimbursement the Contractor for any loss of working time in terms of 4.6 and 4.7, 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 Technical Officer certifies that no other work on which the labour and plant could be employed was immediately available.
- 4.9 Before starting any work for which an occupation has been arranged, the Contractor shall obtain from the Technical Officer written confirmation of the date, time and duration of the occupation.
- 4.10 Before starting any work for which a work permit has been arranged, the Responsible Representative shall read and sign portion C of form No. T.1276 signifying that he is aware of the limits 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 T.1276 form, thereby acknowledging that he is aware that the electrical equipment is to be made "live". The Contractor shall advise all his workmen accordingly.

5. SPEED RESTRICTIONS AND PROTECTION

- 5.1 When speed restrictions are imposed by Transnet 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.
- When the Technical Officer 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 Transnet's and the Contractor's personnel and assets, the public and including trains. Transnet will provide training free of charge of the Contractor's flagmen and other personnel performing protection duties. The Contractor shall consult with the Technical Officer, whenever he considers that protection will be necessary, taking into account the minimum permissible clearances set out in appendixes 1 to 4.
- 5.3 The Contractor shall appoint a Responsible Representative to receive and transmit any instruction, which may be given by Transnet personnel providing protection.

6. ROADS ON TRANSNET PROPERTY

The provision of clause 25 of the E.5, General Conditions of Contract, or clause 23 of the E.5 (MW), General Conditions of Contract for Maintenance Works, shall apply to the use of existing roads on Transnet's property.

7. CLEARANCES

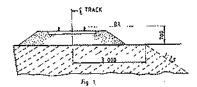
7.1 No temporary works shall encroach on the appropriate minimum clearances set out in Annexure 1 BE97-01 Sheets 1,2, 3 and 5 of 5.

8. STACKING OF MATERIAL

8.1 The Contractor shall not stack any material closer than 3 m from the centre line of any railway line without prior approval of the Technical Officer.

9. EXCAVATION, SHORING, DEWATERING AND DRAINAGE

9.1 Unless otherwise approved by the Technical Officer any excavation adjacent to a railway line shall not encroach on the hatched area shown in Figure 1.



- 9.2 The Contractor shall provide at his own cost any shoring, dewatering or drainage of any excavation unless otherwise stipulated elsewhere in the Contract.
- 9.3 Where required by the Technical Officer, 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.
- 9.4 The Contractor shall prevent ingress of water to the excavation but where water does enter, he shall dispose of it as directed by the Technical Officer.
- 9.5 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.

10. FALSEWORK FOR STRUCTURES

- Drawings of falsework for the construction of any structure over, under or adjacent to any railway line shall be submitted to the Technical Officer 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.
- 10.2 After the falsework has been erected and before any load is applied, the Contractor shall submit to the Technical Officer 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 Technical Officer to proceed, the Contractor shall be entirely responsible for the safety and adequacy of the falsework.

11. PILING

11.1 The Technical Officer will specify the conditions under which piles may be installed on Transnet property.

12. UNDERGROUND SERVICES

- 12.1 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.
- 12.2 Any damage shall be reported immediately to the Technical Officer, or to the official in charge at the nearest station, or to the traffic controller in the case of centralised traffic control.

13. BLASTING

- 13.1 The provisions of clause 23 of the E.5, General Conditions of Contract or clause 21 of the E.5 (MW), General Conditions of Contract for Maintenance Work, shall apply to all blasting operations undertaken in terms of the Contract.
- 13.2 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).
- 13.3 Blasting within 500m of a railway line will only be permitted during intervals between trains. A person appointed by the Technical Officer, 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.
- 13.4 The flagmen described in 13.3, where provided by Transnet, are for the protection of trains and Transnet 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.
- 13.5 The person described in 13.3 will record in a book provided and retained by Transnet 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.
- 13.6 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 Technical Officer and the person who will do the blasting shall both sign the book whenever an entry described in 13.5 is made.

13.7 The terms of clause 27 hereof shall be strictly adhered to.

14. RAIL TROLLEYS

- 14.1 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 Technical Officer and under the conditions stipulated by him.
- All costs in connection with such trolley working requested by the Contractor shall, unless otherwise agreed, be borne by the Contractor, excluding the costs of any train protection services normally provided free of charge by Transnet.

15. SIGNAL TRACK CIRCUITS

- Where signal track circuits are installed, the Contractor shall ensure that no material capable of conducting an electrical current makes contact between rails of a railway line/lines.
- No signal connections on track-circuited tracks shall be severed without the Technical Officer's knowledge and consent.

16. **PENALTY FOR DELAYS TO TRAINS**

16.1 If any trains are delayed by the Contractor and the Technical Officer is satisfied that the delay was avoidable, a penalty will be imposed on the Contractor of R5 000 per hour or part thereof for the period of delay, irrespective of the number of trains delayed.

PART B - ADDITIONAL SPECIFICATION FOR WORK NEAR HIGH-VOLTAGE ELECTRICAL EQUIPMENT

17. **GENERAL**

- 17.1 This specification is based on the contents of Transnet's publication SAFETY INSTRUCTIONS, HIGH-VOLTAGE ELECTRICAL EQUIPMENT, 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 Transnet, and the onus rests on the Contractor to ensure that he obtains a copy.
- 17.2 The Contractor's attention is drawn in particular to the contents of Part I, Sections 1 and 2 of the Safety Instructions: High-Voltage Electrical Equipment.
- 17.3 The Safety Instructions: High-Voltage Electrical Equipment 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).
- 17.4 This specification must be read in conjunction with and not in lieu of the Safety Instructions : High-Voltage Electrical Equipment.
- 17.5 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.
- 17.6 The Contractor shall regard all high-voltage equipment as live unless a work permit is in force.
- 17.7 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 Transnet staff where this is necessary.
- 17.8 No barrier shall be removed unless authorised by the Electrical Officer (Contracts).

18. WORK ON BUILDINGS OR FIXED STRUCTURES

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.

- 18.2 No barrier erected to comply with the requirements of the Electrical Officer (Contracts) shall be used as temporary staging or shuttering for any part of the Works.
- 18.3 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.

19. WORK DONE ON OR OUTSIDE OF ROLLING STOCK, INCLUDING LOADING OR UNLOADING

- 19.1 No person shall stand, climb or work whilst on any platform, surface or foothold higher than the normal unrestricted places of access, namely -
 - (i) the floor level of trucks;
 - (ii) external walkways on diesel, steam and electric locomotives, steam heat vans, etc. and
 - (iii) walkways between coaches and locomotives.

When in these positions, no person may raise his hands or any equipment or material he is handling above his head.

- 19.2 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.
- 19.3 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.
- 19.4 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.
- 19.5 Where the conditions in 19.1 to 19.3 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 Transnet and at its costs, 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 in Transnet.

USE OF EQUIPMENT

- 20.1 Measuring Tapes and Devices
- 20.1.1 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.
- 20.1.2 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.

- 20.1.3 Special measuring devices longer than 2 metres such as survey staves and rods may be used if these are of non-conducting material and approved by the responsible Electrical Engineer in Transnet, but these devices must not be used within 3 metres of live high-voltage equipment in rainy or wet conditions.
- 20.1.4 The assistance of the Electrical Officer (Contracts) shall be requested when measurements within the limits defined in 20.1.1 to 20.1.3 are required.
- 20.1.5 The restrictions described in 20.1.1 to 20.1.3 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.
- 20.2 Portable Ladders
- 20.2.1 Any type of portable ladder longer then 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.

21. CARRYING AND HANDLING MATERIAL AND EQUIPMENT

- 21.1 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 two or more persons so as to maintain it as nearly as possible in a horizontal position should carry such material. The utmost care must be take to ensure that no part of the material comes within 3 metres of any live high-voltage equipment.
- 21.2 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.
- 21.3 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.

22. PRECAUTIONS TO BE TAKEN WHEN ERECTING OR REMOVING POLES, ANTENNAE, TREES ETC.

- 22.1 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.
- 22.2 The cost of supervision by an Authorised Person and the provision of earthing shall, unless otherwise agreed, be borne by the Contractor.
- 22.3 The provisions of clauses 22.1 and 22.2 shall also apply to the erection or removal of columns, antennae, trees, posts, etc.

23. USE OF WATER

23.1 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.

24. <u>USE OF CONSTRUCTION PLANT</u>

- 24.1 "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.
- 24.2 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.
- 24.3 The cost of any supervision by an Authorised Person and the provision of earthing shall, unless otherwise agreed, be borne by the Contractor.
- 24.4 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.
- 24.5 Clauses 24.1 to 24.4 shall apply mutatis mutandis to the use of maintenance machines of any nature.

25. WORK PERFORMED UNDER DEAD CONDITIONS UNDER COVER OF A WORK PERMIT

- 25.1 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.
- 25.2 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.

26. TRACTION RETURN CIRCUITS IN RAILS

- 26.1 DANGEROUS CONDITIONS CAN BE CREATED BY REMOVING OR SEVERING ANY BOND.
- 26.2 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 Transnet personnel.
- 26.3 The Contractor shall not break any permanent bonds between rails or between rails and any structure. He shall give the Technical Officer at least 7 days written notice when removal of such bonds is necessary.
- 26.4 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.

27. BLASTING

- 27.1 The Contractor shall obtain the permission of the Electrical Officer (Contracts) before blasting, and shall give at least 14 days notice of his intention to blast.
- 27.2 No blasting shall be done in the vicinity of electrified lines unless a member of Transnet's electrical personnel is present.
- 27.3 The terms of clause 13 hereof shall be strictly adhered to.

28. <u>HIGH-VOLTAGE ELECTRICAL EQUIPMENT NOT MAINTAINED AND/OR OPERATED BY TRANSNET</u>

Where the work is undertaken on or near high-voltage electrical equipment which is not maintained and/or operated by Transnet, 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.

ANNEXURE 1 SHEET 1 of 5 AMENDMENT

BE 97-01

Sht 1 of 5

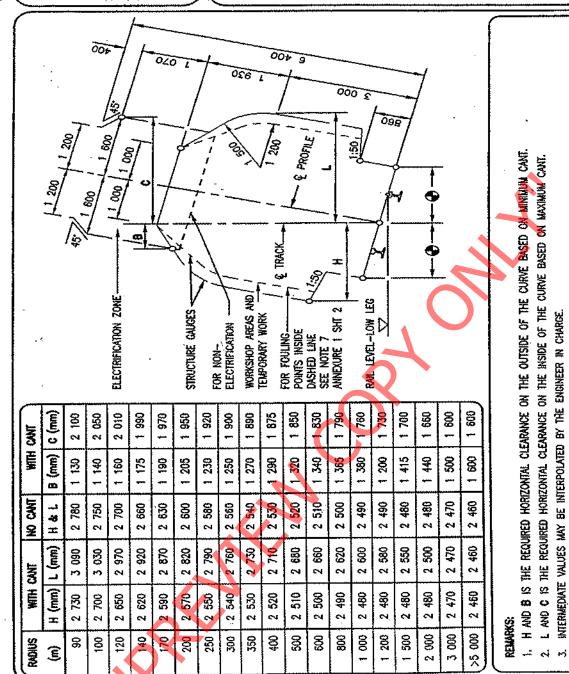
HORIZONTAL CLEARANCES: 1 065mm TRACK GAUGE

FOR WORKSHOP AREAS AND TEMPORARY WORK, CLEARANCES H AND L MAY BE REDUCED BY 300mm.

TO 8 OF ANNEXURE 1 SHEET 2.

REFER TO REMARKS 4

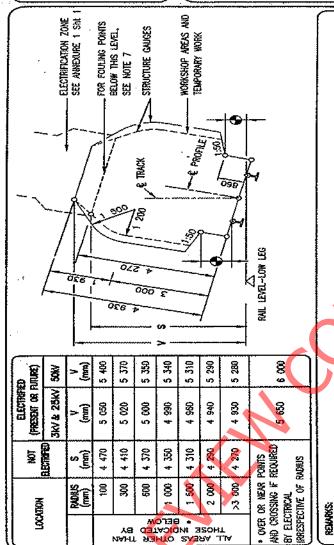
\varTheta SEE ANNEXURE I SHEET 3 FOR PLATFORM CLEARANÇES.



DATE : JUNE 2000

ANNEXURE 1 SHEET 2 of 5 AMENDMENT

VERTICAL CLEARANCES: 065mm TRACK GAUGE



BE 97-01 Sht 2 of 5 DATE : JUNE 2000

2. S IS THE WINNIUM VERTICAL CLEARANCE FOR STRUCTURES AND TEMPORARY WORK OVER NOM-ELECTRIPLED LINES. 1. V IS THE REQUIRED VERTICAL CLEARANCE EXCEPT WHERE REDUCED CLEARANCE S APPLIES.

3. INTERMEDIATE VALUES NAY BE INTERPOLATED BY THE ENGINEER IN CHARGE.

4. FOR APPLICATION AT CURVES

4.1 APPLY INCREASED CLEARANCES FOR CURRES TO POINTS 3m BEYOND THE ENDS OF THE CIRCULAR CURAE. 4.2 REDUCE CLEARANCES AT A CHIFORM RATE OVER THE REMANDER OF THE TRANSFIRON CURVE.

4.3 FOR NON-TRANSTIONED CURIES REDUCE AT A CHIFORM RATE OVER A LENGTH OF 15th ALONG. 5. NEW STRUCTURES: SEE BRIDGE CODE.

STRAGHTS.

6. TUNNELS; SEE DRAWING BE 82-35.

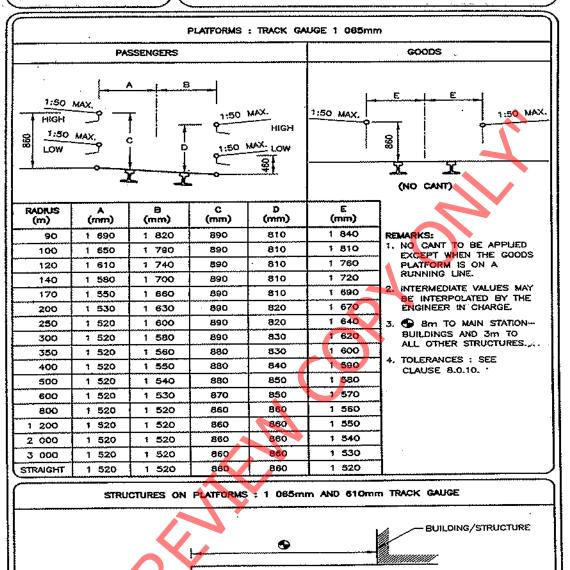
7. FOULING POINTS: SEE CLAUSE 8.1.

8. CLEARANCES ARE BASED OH 15m BOCHE CENTRES AND 21,2m VECHILE BODY LENGTH.

9. 🖨 SEE ANNEXURE 1 SHEET 3 FOR PLATFORM CLEARANCES.

ANNEXURE 1 SHEET 3 of 5 AMENDMENT

CLEARANCES: PLATFORMS



BE 97-01 Sht 3 of 5 DATE ; JUNE 2000

EDGE OF PLATFORM

