



TRANSNET FREIGHT RAIL
an Operating Division of
TRANSNETSOC LIMITED
(Registration No. 1990/000900/30)

REQUEST FOR QUOTATION (“RFQ”)

RFQ NUMBER BFX/51944

MAINTENANCE AND REPAIR OF 2 KM ASPHALT ACCESS ROAD AT PIMPEL HILL RTO HIGH SITE NEAR HARRISMITH

ISSUE DATE : 23 AUGUST 2012
CLOSING DATE : 25 SEPTEMBER 2012
CLOSING TIME : 10H00
SITE INSPECTION/BRIEFING : 11 SEPTEMBER 2012
TIME : 11H00
VENUE : PIMPEL HILL HIGH SITE NEAR HARRISMITH

Please note that late responses and those delivered or posted
to the incorrect address will be disqualified

Respondent's Signature

1

Date and Company Stamp



RFQ NUMBER BFX/51944

***MAINTENANCE AND REPAIR OF 2 KM ASPHALT ACCESS ROAD AT PIMPEL HILL RTO
HIGH SITE NEAR HARRISMITH***

SCHEDULE OF DOCUMENTS

Section

1. **Notice to Bidders**
2. **Scope of Requirements, Special Conditions and Overview**
3. **Quotation Form**
4. **Resolution of Board of Directors (Respondent's Representative)**
5. **Certificate of Acquaintance with RFQ Documents**
6. **Service Fees and Costs**
7. **General Tender Conditions (CSS5 – Services)**
8. **Standard Terms and Conditions of Contract (US7 - Services)**
9. **Certificate of Attendance of RFQ Briefing**
10. **Act 85 of 1993**
11. **E 7/1**

Respondent's Signature

2

Date and Company Stamp



SECTION 1

RFQ NUMBER BFX/51944

MAINTENANCE AND REPAIR OF 2 KM ASPHALT ACCESS ROAD AT PIMPEL HILL RTO HIGH SITE NEAR HARRISMITH

NOTICE TO BIDDERS

1. Quotations are requested from selected persons, companies, close corporations or enterprises (hereinafter referred to as the "**Respondent(s)**") to supply the above-mentioned requirement to Transnet.

On or after 28 August 2012 the RFQ document may be inspected at, and are obtainable from the office of The Senior Buyer, Room 101, 1 st Floor, Rail Engineering Building, Transnet Road Bloemfontein

2. A compulsory site meeting will be conducted at **Pimpel Hill RTO High Site near Harriamith** on **11 September 2012, at 11h00** for a period of **± two hours. (Respondent to provide own transportation and accommodation).**

Respondents failing to attend the compulsory briefing session will be disqualified.

For specific queries before the closing of the RFQ, the following Transnet employee may be contacted by email only:

Name : Jakkie Kotze
Division : Transnet Freight Rail
Email : Jakkie.Kotze@Transnet.net

3. Quotations must reach the Senior Buyer, Transnet Freight Rail, Beaconsfield before the closing hour on the date shown below, and must be enclosed in a sealed envelope which must have inscribed on the outside:

4.

RFQ No : BFX/51944
Description : Maintenance and Repair Access Road Pimpel Hill
Closing date and time : 25 September 2012
Closing address (refer options paragraph 4 below)

Respondent's Signature

3

Date and Company Stamp



SECTION 1

RFQ NUMBER BFX/51944

MAINTENANCE AND REPAIR OF 2 KM ASPHALT ACCESS ROAD AT PIMPEL HILL RTO HIGH SITE NEAR HARRISMITH

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RFQ No : BFX/51944
Description : Maintenance and Repair Access Road Pimpel Hill
Closing date and time : 25 September 2012
Closing address (refer options paragraph 4 below)



4. DELIVERY INSTRUCTIONS FOR THIS RFQ

- 4.1 **If delivered by hand**, the envelope is to be deposited in the TRANSNET tender box which is located at office no. 2, Property Manager's Building, Austen Street, Beaconsfield, and should be addressed as follows:

THE SENIOR BUYER
TRANSNET FREIGHT RAIL
OFFICE NO.2
PROPERTY MANAGER'S BUILDING
TENDER BOX
AUSTEN STREET
BEACONSFIELD

The measurements of the "tender slot" are 260mm wide x 20mm high, and Respondents must please ensure that response documents or files are not larger than the above dimensions. Responses which are too bulky (i.e. more than 20mm thick) must be split into two or more files, and placed in separate envelopes.

It should also be noted that the above tender box is located at office no.2 and is accessible to the public from 08h00 till 15h00 from Mondays to Fridays excluding public holidays.

- 4.2 **If dispatched by courier**, the envelope must be addressed as follows and delivered to the Office of The Senior Buyer, Transnet Freight Rail and a signature obtained from that Office.

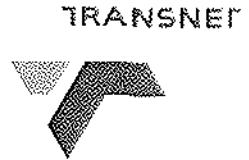
THE SENIOR BUYER
TRANSNET FREIGHT RAIL
OFFICE NO.1
PROPERTY MANAGER'S BUILDING
AUSTEN STREET
BEACONSFIELD

5. Please note that this RFQ closes punctually at 10:00 on Tuesday 25 September 2012.
6. If responses are not delivered as stipulated herein, such responses will not be considered and will be treated as "UNRESPONSIVE".
7. NO EMAIL OR FACSIMILE RESPONSES WILL BE CONSIDERED.
8. The responses to this RFQ will be opened as soon as practicable after the expiry of the time advertised for receiving them.
9. Transnet shall not, at the opening of responses, disclose to any other company any confidential details pertaining to the Quotations / information received, i.e. service fees, deliverables, etc. The names and location of the Respondents will, however, be divulged to other Respondents upon request.
10. Envelopes must not contain documents relating to any RFQ other than that shown on the envelope. All envelopes must reflect the return address of the Respondent on the reverse side.

Respondent's Signature

4

Date and Company Stamp



11. No slips are to be attached to the response documents. Any additional conditions must be embodied in an accompanying letter. Subject only to clause 22 (*Alterations made by the Respondent to Tendered Prices*) of the General Tender Conditions, alterations, additions or deletions must not be made by the Respondent to the actual RFQ documents.

12. **BROAD-BASED BLACK ECONOMIC EMPOWERMENT ("BBBEE")**

TRANSNET fully endorses and supports the South African Government's Broad-Based Black Economic Empowerment Programme and it is strongly of the opinion that all business enterprises have an equal obligation to redress the imbalances of the past. TRANSNET would therefore prefer to do business with business enterprises who share these same values and who are prepared to contribute to meaningful BBBEE initiatives (including and not limited to enterprise development, subcontracting and Joint Ventures) as part of their tender response.

Transnet would accordingly allow a "preference" in accordance with the 10% preference system, as per the Preferential Procurement Policy Framework Act 5 of 2000 (as amended) to companies who provide a BBBEE accreditation Certificate. All procurement and disposal transactions in excess of R30000 will be evaluated accordingly. All transactions below R30000 will as far as possible be earmarked for EME's.

TRANSNET consequently urges Respondents (Large enterprises and QSE's – see below) to have themselves duly accredited by any one of the Accreditation Agencies approved by SANAS (South African National Accreditation System, under the auspices of the DTI).

In terms of Government Gazette No. 32094, Notice No. 354 dated 23 March 2009, as from 1 August 2009, only BBBEE accreditation Certificates issued by SANAS approved verification agencies will be valid.

However accreditation certificates issued before 23 March 2009 and which are still within their one (1) year validity period will still be acceptable, until their expiry date provided that the accreditation was done in accordance with the latest codes (i.e. those promulgated on 9 February 2007).

BBBEE Accreditation Certificates issued after the published date i.e. 23 March 2009, by a Verification Agency not approved by SANAS, will **NOT** be acceptable as from 23 March 2009.

12.1 Enterprises will be rated by such Accreditation Agencies based on the following:

(a) **Large Enterprises (i.e. annual turnover >R35 million):**

- Rating level based on all 7 (seven) elements of the BBBEE scorecard
- Enterprises to provide BBBEE certificate and detailed scorecard (to be renewed annually)

(b) **Qualifying Small Enterprises – QSE (i.e. annual turnover >R5 million but <R35 million):**

- Rating based on any 4 (four) of the elements of the BBBEE scorecard
- Enterprises to provide BBBEE certificate and detailed scorecard (to be renewed annually)

(c) **Exempted Micro Enterprises – EME (i.e. annual turnover <R5m are exempted from being rated or verified):**

- Automatic BBBEE Level 4 rating, irrespective of race ownership, i.e. 100% BBBEE recognition
- Black ownership >50% or Black Women ownership >30% automatically qualify as Level 3 BBBEE rating, i.e. 110% BBBEE recognition



- EME's should provide documentary proof of annual turnover (i.e. audited financials) plus proof of Black ownership if Black ownership >50% or Black Women ownership >30% (to be renewed annually) from their Auditors / Accounting Officers

12.2 In addition to the above, Respondents who wish to enter into a Joint Venture (JV) or subcontract portions of the contract to BBBEE companies must state in their Tenders / Quotations the percentage of the total contract value which would be allocated to such BBBEE companies, should they be successful in being awarded any business. A rating certificate in respect of such BBBEE JV-partners and/or sub-contractors, as well as a breakdown of the distribution of the aforementioned percentage allocation must also be furnished with the tender response to enable Transnet to evaluate / adjudicate on all tenders received on a fair basis.

12.3 *Each Respondent is required to furnish proof of its BBBEE status (Certificate and Detailed Scorecard) as stipulated above to TRANSNET.*

<p>Turnover: Indicate your company's most recent annual turnover:</p> <p>R.....</p>
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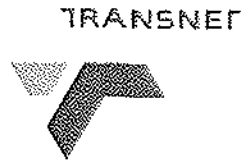
- If annual turnover <R5m, please attach auditors / accounting officers letter confirming annual turnover and percentage black ownership as well as Black Women ownership
- If annual turnover >R5m please attach BBBEE certificate and detailed scorecard from an accredited rating agency.

12.4 The DTI has created an online **B-BBEE Registry** (<http://www.dti.gov.za>) in order to provide a central and standardized source of the B-BBEE status of all entities, and to facilitate the flow of this information amongst entities by providing a Unique Profile Number (UPN) per each listing. Existing and prospective suppliers are therefore urged to list their B-BBEE status on the DTI Registry. Hence, entities verified by DTI, will receive the following benefits:

- Their BBBEE status will be verified and confirmed by the DTI, before listing on the Registry
- Listing on the Registry will provide suppliers the option to market themselves on the DTI B-BBEE Opportunities Network. This is a search engine that is designed to help businesses find B-BBEE compliant entities who match specific requirements in terms of the nature of services/goods provided, region, B-BBEE status or other search criteria.

Transnet supports this DTI initiative and will use the DTI Registry to verify prospective and existing suppliers' BBBEE credentials.

12.5 The respondent will provide Transnet with its DTI B-BBEE UNIQUE PROFILE NUMBER with all tender submissions.



DTI BBEE UNIQUE PROFILE NUMBER:

12.6 Failure to submit your BBEE information in terms of 12.3 and/or 12.5 (above) will result in a score of zero being allocated for BBEE evaluation.

13 COMMUNICATION

Respondents are warned that a response will be liable to 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 enquiries relating to the RFQ to the Transnet employee as indicated in clause 2 above, and may also at any time after the closing date of the RFQ, communicate with the Senior Buyer, Transnet Freight Rail, at telephone number 053 838 3483 or fax no. 011 774 9787 on any matter relating to its RFQ response.

14 RFQ SCHEDULE

Respondents will be contacted as soon as practicable with a status update. At this time short-listed Respondents may be asked to meet with Transnet representatives at a location to be agreed.

15 INSTRUCTIONS FOR COMPLETING THE RFQ

- (i) Sign one set of documents (sign and date the bottom of each page). This set will serve as the legal and binding copy.
- (ii) Documents to be submitted to the address specified above.
- (iii) The following returnable documents must accompany all Quotations:
 - Respondent's latest audited financial statements;
 - Respondent's valid Tax Clearance Certificate.
 - Respondent's valid Letter of Good Standing

16 COMPLIANCE

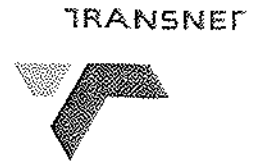
The successful Respondent (hereinafter referred to as the "Supplier") shall be in full and complete compliance with any and all applicable State and Local Laws and Regulations.

17 ADDITIONAL NOTES:

- All returnable documents as indicated in the Quotation Form (Section 3) must be returned with the response
- Respondents are to note that Quotations in which firm prices are quoted for the duration of any resulting contract may receive precedence over prices which are subject to adjustment
- Changes by the Respondent to its submission will not be considered after the closing date

.....
Respondent's Signature

.....
Date and Company Stamp



- The person or persons signing the Quotation must be legally authorised by the Respondent to do so (Refer Section 4). A list of those person(s) authorised to negotiate on your behalf (if not the authorised signatories) must also be submitted along with the Quotation together with their contact details.
- All prices must be quoted in South African Rand
- Transnet reserves the right to undertake post-tender negotiations with selected Respondents or any number of short-listed Respondents and may wish to visit the Respondent's place of work during this process.

NB: Unless otherwise expressly stated, all Quotations furnished pursuant to this Request shall be deemed to be offers. Any exceptions to this statement must be clearly and specifically indicated. Transnet reserves the right to reject any or all offers.

**FAILURE TO OBSERVE ANY OF THE AFOREMENTIONED REQUIREMENTS
MAY RESULT IN A QUOTATION BEING REJECTED**

18. DISCLAIMERS

Respondents are hereby advised that 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. In particular, please note that Transnet reserves the right to:

- modify the RFQ's Services 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
- award a contract in connection with this Quotation at any time after the RFQ's closing date
- award only a portion of the proposed Services which are reflected in the scope of this RFQ
- split the award of the contract between more than one Supplier
- make no award of a contract

Kindly note that Transnet will not reimburse any Respondent for any preparatory costs or other work performed in connection with this Quotation, whether or not the Respondent is awarded a contract.

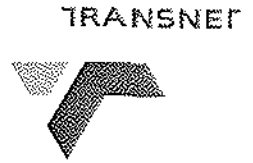
19. LEGAL REVIEW

Any Quotation submitted by a Respondent is subject to review and negotiation of the proposed contract by Transnet's Legal Counsel.

Respondent's Signature

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Date and Company Stamp



Respondents to complete this section:

NAME OF RESPONDENT
PHYSICAL ADDRESS

Respondent's contact person:	Name.....
	Designation.....
	Telephone.....
	Cell Phone.....
	Facsimile.....
	Email.....
	Website.....

Transnet urges its clients, suppliers and the general public to report any fraud or corruption on the part of Transnet's employees to
TIP-OFFS ANONYMOUS : 0800 003 056

- Transnet has appointed a Procurement Ombudsman to investigate any material complaint in respect of RFP's exceeding R5,000,000.00 [five million S.A. Rand] in value. Should a respondent have any material concern regarding an RFP process which meets this value threshold, a complaint may be lodged with Transnet's Procurement Ombudsman for further investigation.
- It is incumbent on the Respondent to familiarize himself/herself with the Terms of reference for the Procurement Ombudsman, details of which are available for review at Transnet's website www.transnet.net.
- An official complaint form may be downloaded from this website and submitted, together with any supporting documentation, within the prescribed period, to procurement.ombud@transnet.net
- For transactions below the R5,000,000.00 [five million S.A. Rand] threshold, a complaint may be lodged with the Chief Procurement Officer of the relevant Operating Division.
- All respondents should note that a complaint must be made in good faith. If a complaint is made in bad faith, Transnet reserves the right to place such a bidder on its List of Excluded Bidders.

Respondent's Signature

Date and Company Stamp



SECTION 2

RFQ NUMBER BFX/51944

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Respondent's Signature

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Date and Company Stamp



1.0 SCOPE

- 1.1 This specification covers Transnet Freight Rail requirements for the maintenance and repair (M&R) of a 2 Km asphalt access road to extend the useful life of the access road, to prevent grass growing on the tar service, to to maintain a smooth riding surface, and prevent water from entering the underlying soil at Pimpel Hill Radio High Site (near Harrismith) in the Free State.

2.0 DESCRIPTION OF WORK

During repairs, it is extremely important to analyze and repair the "true cause" of the road distress and not just repair the distress. The intended function of access road depends on proper and timely maintenance and repair.

There are numerous types of M&R methods for ACC road access which include crack sealing, sealcoats, and overlays. Therefore the contractor must present his best technical and economical solution for the maintenance and repair (M&R) of the access road to extend the useful life of the access road.

The maintenance and repair include:

The maintenance and repair (M&R) of a 2 Km asphalt access road. Maintenance and repair include; patch repairs, filling of cracks, preparation of the surface and sealing,

Removing all grass growing on the tar service

Cleaning of the water canals alongside the tar road.

Repair all cracks in the water canals to prevent water from entering the underlying soil

Sealing of the cobble stone water canal

4 THE SITE

Access to the sites will be via the Farmers service road. The key for gates in the service road can be obtained from the Technical Officer, but must be handed back on completion of the contract. Gates have to be kept closed at all times. No farm property like cobble stone, stone, fencing, material, soil and flora are to be removed from the farm/site.

The contractor's supervisor will be responsible for access control during the contract. The Project Manager / Technical officer will be responsible to inform the landlord of the start date and completion dates of the activities via Nick Coetzer, E-Mail Nick.Coetzer@transnet.net, Tel no 011 583 0257, Cell 083 286 5327.

No open fires will be allowed. No alcohol will be allowed

The repairs of any damages to the Farmers fencing/farmers service road, Eskom power lines and Telkom will be for the Contractors account. The Contractor must arrange for the damage to be repaired within one day. Alternatively these costs will be deducted from the tendered amount, and Transnet will arrange for the repair of the damage.



5 TO BE SUPPLIED BY TRANSNET

- 5.1 Identify and indicate all underground cable routes to the contractor before the commencement of the work.
- 5.2 Induction Training will be arranged before the entering of any worksite and the commencement of the work.
- 5.3 Site Access Certificate.

6. TO BE SUPPLIED BY THE CONTRACTOR

- 6.1 The tenderer must provide with his tender a detailed plan and procedure of the proposed best technical and economical solution and this plan must be executed
- 6.2 The Contractor must provide CIDB rating.
- 6.2 Information : The Contractor must provide Programme of work. How work is going to be executed and commissioned.
- 6.3 Relevant PPE, all labour, material, equipment, machinery, plant, tools vehicles, bags, fuel etc.to be used for the execution of the work shall be supplied by the contractor and shall conform to Transnet Freight Rail specifications and adhere to the safety rules and regulations of Act 85.
- 6.4 The Contractor shall supply and have available on the site at all times two A4 size triplicate carbon copy books. In one book, site instructions will be recorded. The other book shall be used by the contractor as a diary for recording day by day the state of the weather, the work done each day and full details of any circumstance which may affect the progress of the work. The original sheet of each set of three pages will be removed from both books and retained by the Technical Officer. The Contractor may remove the second sheet but the third sheet shall be retained on the site until completion of the work, when it shall be handed over to the Technical Officer.
- 6.2 The Contractor shall make necessary arrangements for sanitation, water and electricity at these relevant sites during the installation of the equipment.
- 6.5. The contractor must be available for work from 07:00 to 16:30, Monday to Friday.
- 6.6. All workers are to wear related PPE (Reflective vest alongside the railway lines).

7. PROGRAM FOR THE EXECUTION OF THE WORK

- 7.1 The contract must commence within 14 calendar days after notification of the award of the contract and must be completed on or before 2 weeks after commencement date.
- 7.2 The contractor will supply the Project Manager with a bar chart of the sequence of activities.
- 7.3 **Close co-operation between the Contractor, the Technical officer and CTC Train Control Officers at the respective stations must be adhered to at all times during execution of this project.**



8. SAFETY

- 8.1 The Contractor shall comply with requirements of safety legislation and regulations in all respects. The contractor shall in particular comply with the following Acts:
- 8.1.1 The Compensation for Occupational Injuries and Diseases Act, No.130 of 1993. The Contractor shall produce proof of his registration and good standing with the Compensation Commissioner in terms of the Act.
- 8.1.2 The Occupational Health and Safety Act, 1993 (Act 85 of 1993).
- 8.1.3 The explosive Act No. 26 of 1956 (as amended). The Contractor shall, when applicable, furnish the Project Manager / Supervisor with copies of the permits authorising him or his employees, to establish an explosives magazine on or near the site and to undertake blasting operations in compliance with the Act.
- 8.1.4 The Contractor shall comply with the current Transnet Specification E.4E, Safety Arrangements and Procedural Compliance with the Occupational Health and Safety Act, Act 85 of 1993 and Regulations and shall before commencement with the execution of the contract, which shall include site establishment and delivery of plant, equipment or materials, submit to the Project Manager / Supervisor
- 8.1.5 The Contractor is reminded that working adjacent to railway lines is extremely hazardous and has to be treated as such. The Contractor is responsible to make sure that no workers and equipment are within 3 meters of the railway line. The Contractor is not allowed to work within 3 meters of any high voltage, with ladders or any other equipment. The Contractor must make sure that all workers are equipped with luminous vests or jackets and safety boots or shoes. See attached E 7.1 specifications for works on, over, under or adjacent to railway lines and near high voltage equipment. The Contractor must also inform the people under his control not to use objects like sticks, poles, etc. to remove nests or any other objects from high- voltage equipment.
- 8.2 In addition to compliance with clause 1.4 hereof, the Contractor shall report all incidents in writing to the Project Manager / Supervisor. Any incident resulting in the death of or injury to any person on the works shall be reported within 24 hours of its occurrence and any other incident shall be reported within 48 hours of its occurrence
- 8.3 All reasonable steps to effectively prevent the occurrence of veldt fires shall be required from the Contractor. Such fire fighting equipment and resources deemed necessary to effectively fight any veldt fire, which may occur as a result of the work, shall be required at each relay site and shall form part of this contract. The cost to provide such fire fighting equipment and resources shall be deemed to be included in the rates tendered and no separate payment shall be made for this. Open fires are not allowed on site. Any claims due to fire caused by Contractor will be for his account.
- 8.4 The contractor will ensure that a competent supervisor will oversee the safe running and completion of the works and related activities.
- 8.5 The contractor will issue all workers employed by him with the necessary protection clothing and



PPE applicable to the type of work being performed.

- 8.6 No separate payment shall be made for the safety measures and the costs hereof will be deemed to be included in the rates tendered.
- 8.7 It is further required of the Contractor to submit to the Project Manager a Safety Plan and Risk Assessment covering all the aspects of safety on site and safe working methods within 1 (One) calendar week of receiving his letter of appointment.

9. INSURANCE OF WORKS

- 9.1 The Contractor shall take every precaution to protect the Works against damage of any kind and not to cause damage to property or injury to any person as a result of his execution of the works.
- 9.2 The Contractor shall, in his own interests, obtain insurance of his own site establishment, materials, plant, equipment, tools, his motor vehicles and the common law liabilities of the Contractor as an employer.
- 9.3 Transnet Freight Rail shall in his own interest obtain Public Liability Insurance.

10. PENALTIES

A penalty of R500.00 per working day will be charged for late completion. If the tenderer fails to complete the work, and does not ask for extension for this period from the Project Manager, this tender shall be sub-contracted, and the cost will be for the contractor's own account.

11. FINAL INSPECTION OF THE WORK

Inspection of the work will be done within seven working days after the Contractor has notified the Project Manager of Transnet in writing that the work has been completed. If the work is found to be satisfactory, a Certificate of Completion will be issued and the Contract will be considered completed. If the work is found to be satisfactory, the Contractor will be allowed to submit a tax invoice together with the job order.

12. MEASUREMENT AND PAYMENT

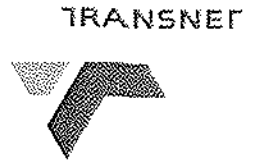
Payment will be processed after the successful completion of a site. It is the duty of the contractor to send a copy of the handover certificate that has been certified as correct by the Engineer, the Invoice together with the relevant pages of the site diary, to the office of the Depot Engineer for payment to be made.

No payment will be made for work not complying with the Technical Specifications of this document.

.....
Respondent's Signature

14

.....
Date and Company Stamp



13. TEMPORARY CAMPS

No campsites or accommodation will be available to the Contractor on the farm. The Contractor must arrange for all facilities needed and these costs must be included in the tender price.

14. POLLUTION PREVENTION AND ENVIRONMENTAL AWARENESS

According to the Environmental Management System of the Bloemfontein depot, pollution must be prevented as far as possible and where pollution occurs due to the negligence of the contractor, he/she will be responsible for corrective actions or he/she will be held liable for corrective actions required.

15. SITE INSPECTION / BRIEFING MEETING

A site meeting and inspection will be conducted at the site or a briefing meeting on ????????? 2012 at 09:00. The Project Manager will be Mr. Hennie Kruger Tel 051 408 2535, Cel 083 461 4184 and the Technical Officer for this contract will be Mr Hans Coetzer (083 288 6916) and he can be contacted in this regard.

16. PROTECTION OF WORKPLACES

The contractor will make his/her own arrangements for the safety of his/her staff, equipment, plant and material.

17. PROJECT CONTACT DETAILS

Civil Engineer Sam van der Walt, Tel 051 408 3370, Cel 083 400 7755
Project Owner Nick Coetzer, Tel 011 583 0257, Cel 083 286 5327

Project Manager Hennie Kruger Tel 051 408 2535, Cel 083 461 4184
Technical Officer Jack Bezuidenhout Tel 051 408 2220, Cel 083 390 2145

18. Site Locality Plan

Annexure B

Take the N3 from Harrismith towards Durban. Proceed for 10 Km. You will see a windmill on the right hand side which is the turn off point to the site



ny Stamp



19. DEFECTS

The sole responsibility for the work as specified in the specification shall rest entirely with the service provider(s), who shall be required to undertake rectification of any defects. The service provider(s) shall make good to the satisfaction of Transnet any defects, which may arise during inspection.

20. PAYMENT

Progress payment ,tax invoices shall be submitted together with a month-end statement. Payment against such month-end statement shall be made by Transnet within 30 (thirty) days after date of receipt by Transnet of the statement together with all undisputed Tax Invoices and supporting documentation.

21. DAMAGE TO PROPERTY AND/OR SERVICES

The service provider(s) shall take adequate precaution against damage to existing assets and injury to persons during the course of the contract. The successful service provider(s) will be responsible for the repairs and/or the costs incurred in such repairs to any damages caused to Private or Transnet property by the successful service provider(s) staff while carrying out the required work.

23. SUPERVISION

Transnet Freight Rail will appoint a Project Manager to supervise the work and shall direct the service provider(s) in terms of the provisions of the contract. Transnet will notify the successful service provider(s), in writing, of the name of the Project Manager who will supervise and take charge of the contract. The service provider(s) must at all times, only take instructions from the appointed Project Manager and nobody else. The service provider(s) must be in possession of or have access to a cellular phone and a facsimile machine.

24. CANCELLATION OF CONTRACT

In the event of non-performance and/or non-adherence to the specifications by the service provider(s), Transnet reserves the right to terminate the contract immediately.

25. AMENDMENTS AND/OR ADDITIONS

Transnet reserves the right to add or withdraw any part of the work specified at any time. No amendments, variations and/or additions to the contract shall, however, be of any force or effect unless reduced to writing and signed by both parties.

26. HOUSING OF EMPLOYEES

Accommodation of the service provider(s) employees on site will not be permitted and the service provider(s) shall make his own arrangements.

.....
Respondent's Signature

17

.....
Date and Company Stamp



27. TOILET FACILITIES

Use of existing toilet facilities will be permitted if available, contractor to make own arrangements if not available

28. SUBCONTRACTING

The successful service provider(s) shall not be permitted to subcontract. Only persons directly employed by the service provider(s) shall carry out the work

29. DAMAGE TO FAUNA AND FLORA

- a. The service provider(s) shall ensure that his/her employees at all times exercise care and consideration for the fauna and flora within and adjacent to the area to be maintained or controlled.
 - b. Dumping or polluting of any kind will not be permitted.
 - c. The service provider(s) shall take particular note of environmentally sensitive areas and shall plan and execute his/her work with the utmost care and responsibility.
 - d. Burning will not be allowed under any circumstances as a means of control. The making of fires, for whatever purpose, on Transnet property is also strictly prohibited.
- 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.

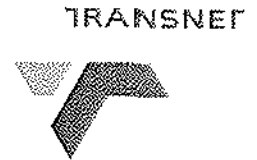
Where herbicide is to be used the service provider(s) shall ensure that this work be done in the presence and under the supervision of a Pest Control Operator, specializing in the field of industrial weed control. The Pest Control Operator must be registered in terms of the Farm Feeds Agricultural and Stock Remedies Act, Act 36 of 1947, as amended.

30. SUBSTANCE ABUSE TESTING

The OHS Act (Act 85 of 1993) clearly states in the Safety Regulations no. 2A "INTOXICATION" **An employer or user, as the case may be, shall not permit any person who appears to be under the influence of intoxicating liquor or drugs, to enter or remain at a workplace**". Transnet Freight Rail enforces this legislation by means of its Substance Abuse Policy, and therefore reserves the right to do substance abuse testing on anyone who enters their premises.

31. NATIONAL RAILWAY SAFETY REGULATOR ACT

In compliance with the **National Railway Safety Regulator Act, 16 of 2002**, the successful Respondent (the "Supplier") shall ensure that the Services to be supplied to Transnet, under the terms and conditions of a contract between the parties, comply fully with the specifications as set forth in this RFQ, and shall thereby adhere to railway safety requirements and/or regulations. Permission for the engagement of a subcontractor by the Supplier, as applicable, both initially and during the course of a contract, shall be subject to a review of the capability of the proposed subcontractor to comply with the specified railway safety requirements and/or regulations. The Supplier and/or its subcontractor shall grant Transnet access, during the term of the contract, to review any safety-related activities, including the coordination of such activities across all parts of the organisation.



Accepted:

YES	
-----	--

NO	
----	--

32. SERVICE LEVELS

- Experienced national account representative/s to work with Transnet's sourcing/procurement department (no sales representatives are needed for individual department/locations). Additionally, there shall be a minimal number of people, fully informed and accountable for this agreement.
- Transnet reserves the right to request that any member of the Supplier's team involved on the Transnet account be replaced if deemed not to be adding value for Transnet.
- Supplier guarantees that it will achieve a 95% service level . If the Supplier does not achieve this level a penalty of R500.00 per working day will be charged
 - On-time deliverables
- Supplier must provide a toll-free number or alternative number for customer service calls.
- Failure of the Supplier to comply with stated service level requirements will give Transnet the right to cancel the contract in whole, without penalty, giving 30 (thirty) days' notice to the Supplier.
- **Accepted:**

YES	
-----	--

NO	
----	--

33. CONTINUOUS IMPROVEMENT INITIATIVES AND VALUE ADD

Respondents shall indicate whether they are committed to participate in the continuous improvement initiatives of Transnet to reduce the overall cost of transportation within South Africa during the duration of the contract.

Accepted:

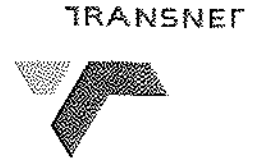
YES	
-----	--

NO	
----	--

If "yes", please specify.

Respondents must briefly describe their commitment to the continuous improvement initiatives and give examples of specific areas and strategies where cost reduction initiatives can be introduced. Specific areas and proposed potential savings percentages should be included. Additional information can be appended to the Respondent's Quotation if there is insufficient space available.

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.....
.....
.....

RISK

Respondents must elaborate on the control measures put in place by their company, which mitigate the risk to Transnet, pertaining to potential non-performance by a Supplier in relation to -

(i) quality of the Service(s) provided:

.....
.....
.....
.....

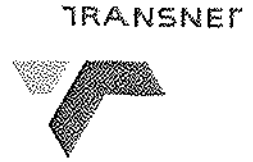
(ii) continuity of provision of the Service(s) (refer clause 6.9 of Form US7)::

.....
.....
.....

(iii) compliance with the Occupational Health and Safety Act, 85 of 1993 (refer clause 8.1(f) of Form US7)

.....
.....
.....

(iv) compliance with the National Railway Safety Regulator Act, 16 of 2002 (refer clause 25 above)



.....
.....
.....

REFERENCES / EXPERIENCE

Please indicate below the company names and contact details of existing customers whom Transnet may contact to seek third party evaluations of your current service levels and previous experiences:

Name of Company	Contact Person	Telephone number

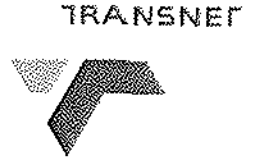
EVALUATION CRITERIA

Transnet will utilise the following criteria (not necessarily in this order) in choosing a Supplier, if so required:

- Pricing (fees) - Whilst not the sole factor for consideration, competitive pricing will be critical in indicating how much you value Transnet's business
- Service level guarantees
- Compliance - Completeness of your responses and content of the Quotation will be considered
- Financial strength
- References / Experiences
- Fixed price
- BBBEE status of company
- Duration

.....
 Respondent's Signature

.....
 Date and Company Stamp



SECTION 3

RFQ NUMBER BFX/51944

**MAINTENANCE AND REPAIR OF 2 KM ASPHALT ACCESS ROAD AT PIMPEL HILL RTO
HIGH SITE NEAR HARRISMITH**

QUOTATION FORM

I/We _____
(name of company, close corporation or partnership)

of (full address) _____

carrying on business under style or title of (trading as) _____

represented by _____

in my capacity as _____

being duly authorised thereto by a Resolution of the Board of Directors or Members or Certificate of Partners, as the case may be, dated _____ a certified copy of which is annexed hereto, hereby offer to supply the above-mentioned Services at the prices quoted in the schedule of Service Fees in accordance with the terms set forth in the accompanying letter(s) reference _____ and dated _____ (if any) and the documents listed in the accompanying schedule of RFQ documents.

I/We agree to be bound by those conditions in Transnet's:

- (i) Standard Terms and Conditions of Contract, Form No. US7 - Services;
- (ii) General Tender Conditions, Form CSS5 – Services; and

Respondent's Signature

Date and Company Stamp



- (iii) any other standard or special conditions mentioned and/or embodied in the Request for Quotation form; and;-

I/We accept that unless Transnet should otherwise decide and so inform me/us in the facsimile or letter of acceptance, 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.

Should Transnet decide that a formal contract should be signed and so inform me/us in the facsimile or letter of acceptance, this Quotation (and, if any, its covering letter and any subsequent exchange of correspondence) together with Transnet's letter of acceptance/intent, shall constitute a binding contract between Transnet and me/us until the formal contract is signed.

I/We further agree that if, after I/we have been notified of the acceptance of my/our Quotation, I/we fail to enter into a formal contract if called upon to do so, or fail to commence the provision of the Services within 4 (four) weeks, Transnet may, without prejudice to any other legal remedy which it may have, recover from me/us any expense to which it may have been put in calling for Quotations afresh and/or having to accept any less favourable Quotation.

I/We accept that any contract resulting from this offer will be for a period of twenty four months only, and agree to a penalty clause to be negotiated with Transnet, which will allow Transnet to invoke a penalty (details to be negotiated) against us should the delivery of the Services be delayed due to non-performance by us.

The law of the Republic of South Africa shall govern the contract created by the acceptance of this RFQ. The *domicillium citandi et executandi* shall be a place in the Republic of South Africa to be specified by the Respondent hereunder, at which all legal documents may be served on the Respondent who shall agree to submit to the jurisdiction of the courts of the Republic of South Africa. Foreign Respondents shall, therefore, state hereunder, the name of their accredited agent in the Republic of South Africa who is empowered to sign any contract which may have to be entered into in the event of their Quotation being accepted and to act on their behalf in all matters relating to the contract.

Respondent to indicate *domicillium citandi et executandi* hereunder:

.....
.....
.....
.....

NOTIFICATION OF AWARD OF RFQ

As soon as possible after approval to award the contract/s, the successful Respondent (the Supplier) will be informed of the acceptance of its Quotation. Unsuccessful Respondents will be advised in writing of the name of the successful Supplier and the reason as to why their Quotations have been unsuccessful, for example, in the category of price, delivery period, quality, BBBEE status or for any other reason.

VALIDITY PERIOD

Transnet desires a validity period of 3 (three) months (from closing date) against this RFQ. It should be noted that Respondents may offer an earlier validity period, but that their Quotations may be disregarded for that reason. Should Respondents be unable to comply with this validity period, an alternative validity period must be stated hereunder:

.....
Respondent's Signature

.....
Date and Company Stamp



This RFQ is valid until _____ (State alternative validity period/date).

TAX (VAT) REGISTRATION NUMBER

The Respondent must state hereunder the tax registration number which is applicable to Value-Added Tax:

TAX CLEARANCE CERTIFICATE

Respondents are required to forward a valid copy of their company's Tax Clearance Certificate with their Quotation.

Indicate tax clearance certificate expiry date: _____

BANKING DETAILS

BANK: _____

BRANCH NAME / CODE: _____

ACCOUNT HOLDER: _____

ACCOUNT NUMBER: _____

NAME(S) AND ADDRESS / ADDRESSES OF DIRECTOR(S) OR MEMBER(S)

The Respondent must disclose hereunder the full name(s) and address(s) of the director(s) or members of the company or close corporation (C.C.) on whose behalf the RFQ is submitted.

- (i) Registration number of company / C.C.
- (ii) Registered name of company / C.C.
- (iii) Full name(s) of director/member(s) Address/Addresses ID Number/s

	Address/Addresses	ID Number/s
.....
.....
.....
.....
.....
.....

Respondent's Signature

Date and Company Stamp



REGISTRATION CERTIFICATE

Respondents must submit a certified copy of their company's Registration Certificate with their Quotation.

NAME AND ADDRESS OF ACCREDITED AGENT

Provide hereunder, if applicable, details of the accredited agent in the Republic of South Africa appointed as local representative by foreign Respondents and whose address shall be regarded as the Respondent's domicilium citandi et executandi in terms of the Standard Terms and Conditions of Contract, US7 – Services.

Name
Address

CONFIDENTIALITY

All information related to a subsequent contract, both during and after completion, is to be treated with strict confidence. Should the need however arise to divulge any information gleaned from provision of the Services, which is either directly or indirectly related to Transnet's business, written approval to divulge such information will have to be obtained from Transnet.

DISCLOSURE OF PRICES TENDERED

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

YES		NO	
-----	--	----	--

DECLARATION

Respondents to declare hereunder whether any family and/or direct relationship exists between any of the owners / members / directors / partners / shareholders (unlisted companies) of the responding company and any employee or board member of the Transnet Group:

YES		NO	
-----	--	----	--

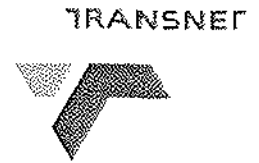
If YES, please indicate below:

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

ADDRESS

.....
Respondent's Signature

.....
Date and Company Stamp



Indicate nature of relationship (if any):

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

PRICE REVIEW

Transnet will be benchmarking this price offering(s) against the lowest price received as per the benchmarking exercise. If the Respondent's price(s) is/are found to be higher than the benchmarked price(s), then the Respondent shall match or better such price(s) within 30 days - failing which the Contract may be terminated at Transnet's discretion or the particular item(s) or service(s) purchased outside the contract.

RETURNABLE DOCUMENTS

Respondents are required to submit the following returnable documents with their responses (see tick):

Notice to Bidders – Section 1	√
Scope of Requirements, Special Conditions and Overview– Section 2	√
Quotation Form – Section 3	√
Resolution of Board of Directors (Respondent's Representative) - Section 4	√
Certificate of Acquaintance with RFQ Documents – Section 5	√
Service Fees and Costs - Section 6	√
General Tender Conditions - Form CSS5 - Section 7	√
Conditions of Contract - Form US7 – Section 8	√
Valid Tax Clearance Certificate	√
VAT Registration Certificate	√
BBBEE Accreditation Certificate	√
Certificate of attendance of RFQ Briefing – Section 9	√
Act 85 of 1993 – Section 10	√
E7/1 – Section 11	√
Letter of Goods Standing	√

NOTE: Sections 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 and 12, as indicated in the footer of each page, must be signed and dated by the Respondent.

 Respondent's Signature

 Date and Company Stamp



By signing the RFQ documents, the Respondent is deemed to acknowledge that he / she has made himself / herself thoroughly familiar with all the conditions governing this RFQ, including those contained in any printed form stated to form part hereof and Transnet Limited 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.

SIGNED at _____ on this _____ day of _____ 2011.

SIGNATURE OF WITNESSES:

ADDRESS OF WITNESSES:

1 _____ 1 _____

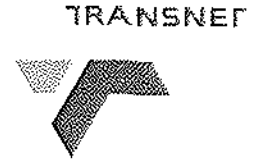
2 _____ 2 _____

SIGNATURE OF RESPONDENT'S AUTHORISED REPRESENTATIVE:

NAME

DESIGNATION

“PREVIEW COPY ONLY”



SECTION 4

RFQ NUMBER BFX/51944

**MAINTENANCE AND REPAIR OF 2 KM ASPHALT ACCESS ROAD AT PIMPEL HILL RTO
HIGH SITE NEAR HARRISMITH**

SIGNING POWER : RESOLUTION OF BOARD OF DIRECTORS

NAME OF COMPANY: _____

It was resolved at a meeting of the Board of Directors held on _____ that

FULL NAME(S)	CAPACITY	SIGNATURE
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

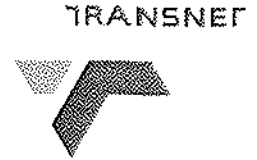
in his/her capacity as indicated above is/are hereby authorised to enter into, sign, execute and complete any documents relating to Tenders, Quotations and/or Contracts for the supply of Services.

FULL NAME _____

SIGNATURE CHAIRMAN

FULL NAME _____

SIGNATURE SECRETARY



SECTION 5

RFQ NUMBER BFX/51944

**MAINTENANCE AND REPAIR OF 2 KM ASPHALT ACCESS ROAD AT PIMPEL HILL RTO
HIGH SITE NEAR HARRISMITH**

CERTIFICATE OF ACQUAINTANCE WITH RFQ DOCUMENTS

NAME OF COMPANY: _____

I/We _____ do

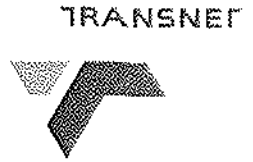
hereby certify that I/we acquainted myself/ourselves with all the documentation comprising this RFQ and all conditions contained therein, as laid down by Transnet Limited for the carrying out of the proposed supply/service/works for which I/we submitted my/our response.

I/We furthermore agree that Transnet Limited shall recognise no claim from me/us for relief based on an allegation that I/we overlooked any RFQ/contract condition or failed to take it into account for the purpose of calculating my/our offered prices or otherwise.

SIGNED at _____ on this _____ day of _____ 2012

WITNESS : _____

SIGNATURE OF RESPONDENT



SECTION 6

RFQ NUMBER BFX/51944

SERVICE FEES AND COST

Summary of Prices

Item	Description	Price(Excl Vat)
A		
1	Maintenance and repair (M&R) of a 2 Km asphalt access road Description of plan to be executed for the repair of the road to Pimpel Hill RTO High Site	
	TOTAL PRICE (EXCLUDING VAT)	

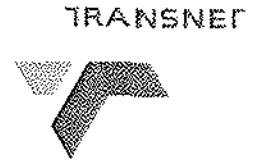
Total : R.....

Total in Words

In the event of any discrepancy the amount in words will take precedence over the amount in figures

 Respondent's Signature

 Date and Company Stamp



SECTION 7

RFQ NUMBER BFX/51944

**MAINTENANCE AND REPAIR OF 2 KM ASPHALT ACCESS ROAD AT PIMPEL HILL RTO
HIGH SITE NEAR HARRISMITH**

GENERAL TENDER CONDITIONS (CSS5 – SERVICES)

(Available on request bidders to familiarise themselves with the contents)

Respondent's Signature

31

Date and Company Stamp



SECTION 8

RFQ NUMBER BFX/51944

**MAINTENANCE AND REPAIR OF 2 KM ASPHALT ACCESS ROAD AT PIMPEL HILL RTO
HIGH SITE NEAR HARRISMITH**

STANDARD TERMS AND CONDITIONS OF CONTRACT

FOR THE PROVISION OF SERVICES TO TRANSNET

Refer Form US7 attached hereto.

Respondents should note the obligations as set out in
Clause 19 of the General Tender Conditions (Section 7) which reads as follows:

"The Supplier shall adhere to the Standard Terms and Conditions of Contract as set out in Form US7 - Services), a copy of which is attached hereto. Should the Respondent find any conditions unacceptable, it should indicate which conditions are unacceptable and offer an alternative. Please note that any alternative offered shall be compared with acceptance of the Form US7 conditions or alternatives offered by other Respondents."

(Available on request bidders to familiarise themselves with the contents)

.....
Respondent's Signature

32

.....
Date and Company Stamp



SECTION 9

RFQ NUMBER BFX/51944

**MAINTENANCE AND REPAIR OF 2 KM ASPHALT ACCESS ROAD AT PIMPEL HILL RTO
HIGH SITE NEAR HARRISMITH**

CERTIFICATE OF ATTENDANCE OF SITE MEETING / BRIEFING SESSION

It is hereby certified that -

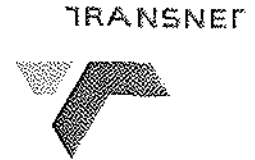
1.
2.

Representative(s) of (*Name of company*)

attended the site meeting / briefing session in respect of the proposed Services to be rendered in terms of this RFQ on 17 August 2012.

.....
TRANSNET'S REPRESENTATIVE
DATE.....

.....
RESPONDENT'S REPRESENTATIVE
DATE.....



SECTION 10

RFQ NUMBER BFX/51944

MAINTENANCE AND REPAIR OF 2 KM ASPHALT ACCESS ROAD AT PIMPEL HILL RTO HIGH SITE NEAR HARRISMITH

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.

Respondent's Signature

34

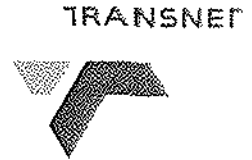
Date and Company Stamp



- 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:-
 - (d) Includes excavation work deeper than 1m; or
 - (e) Includes working at a height greater than 3 meter above ground or a landing.
- 3.2 The notification to the Provincial Director shall be on a form similar to Annexure A of the Construction Regulations, 2003, also shown in Annexure 1 of this Specification. The Contractor shall ensure that a copy of the completed notification form is kept on site for inspection by an inspector, Technical Officer or employee.
- 3.3 The Contractor shall, in accordance with the Act and applicable Regulations, make all the necessary appointments of competent persons in writing on a form similar to Annexure 2 of this Specification and deliver copies thereof to the Technical Officer. Copies should also be retained on the health and safety file.
- 3.4 Subcontractors shall also make the above written appointments and the Contractor shall deliver copies thereof to the Technical Officer.
- 3.5 In the case of a self-employed Contractor or any subcontractor who has the appropriate competencies and supervises the work himself, the appointment of a construction supervisor in terms of regulation 6.1 of the Construction Regulations, 2003 will not be necessary. The Contractor shall in such a case execute and sign a declaration, as in Annexure 3, by which he personally undertakes the duties and obligations of the "Chief Executive Officer" in terms of section 16(1) of the Act.



- 3.6 The Contractor shall, before commencing any work, obtain from the Technical Officer an access certificate as in Annexure 4 executed and signed by him, permitting and limiting access to the designated site or place of work by the Contractor and any subcontractors under his control.
- 3.7 Procedural compliance with Act and Regulations, as above, shall also apply to any subcontractors as employers in their own right. The Contractor shall furnish the Technical Officer with full particulars of such subcontractors and shall ensure that they comply with the Act and Regulations and Protekon's safety requirements and 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: -

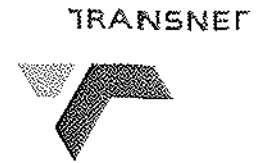
- (a) The safety management structure to be instituted on site or place of work and the names of the Contractor's health and safety representatives and members of safety committees where applicable;
- (b) the safe working methods and procedures to be implemented to ensure the work is performed in compliance 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.

5.4.1 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.

5.4.2 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.



- 5.4.3 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.
- 5.4.4 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.
- 5.4.5 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.
- 5.4.6 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.
- 5.4.7 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.
- 5.4.8 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.

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SECTION 11

RFQ NUMBER WR/51944

MAINTENANCE AND REPAIR OF 2 KM ASPHALT ACCESS ROAD AT PIMPEL HILL RTO HIGH SITE NEAR HARRISMITH

**SPECIFICATION FOR WORKS ON, OVER, UNDER OR ADJACENT TO RAILWAY LINES AND NEAR HIGH
VOLTAGE EQUIPMENT E7/1 (July 1998)**

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13.	Blasting
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15.	Signal track circuits
16.	Penalty for delays to trains

Respondent's Signature

41

Date and Company Stamp



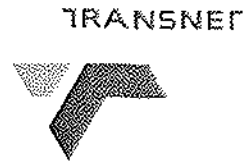
PART B - ADDITIONAL SPECIFICATION FOR WORK NEAR HIGH-VOLTAGE ELECTRICAL EQUIPMENT

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1 DEFINITIONS

The following definitions shall apply:

Authorised Person. 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.

Electrical Officer (Contracts). 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.

Executive Officer. 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.

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 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.

Project Manager. 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.

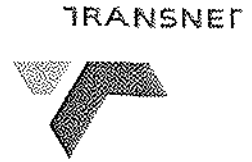
Responsible Representative. The responsible person in charge, appointed by a contractor, who has undergone specific training (and holds a certificate) to supervise staff under his control to work on, over, under or adjacent to railway lines and in the vicinity of high-voltage electrical equipment.

Technical Officer. 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.

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.



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.
- 5.2 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.

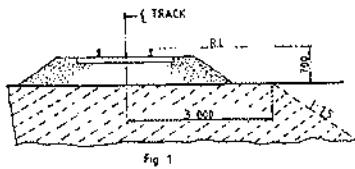


8. **STACKING OF MATERIAL**

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**

10.1 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.

14.2 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**

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

15.2 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.

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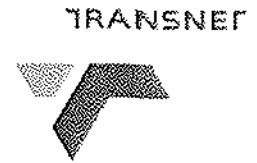
PART B - ADDITIONAL SPECIFICATION FOR WORK NEAR HIGH-VOLTAGE ELECTRICAL EQUIPMENT

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.

20. **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

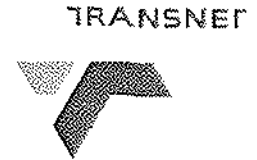
- 20.2.1 Any type of portable ladder longer than 2 metres may only be used near live high-voltage equipment under the direct supervision of the Responsible Representative. He shall ensure that the ladder is always used in such a manner that the distance from the base of the ladder to any live high-voltage 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.

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 taken 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. **USE OF CONSTRUCTION PLANT**

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. **HIGH-VOLTAGE ELECTRICAL EQUIPMENT NOT MAINTAINED AND/OR OPERATED BY TRANSNET**

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.

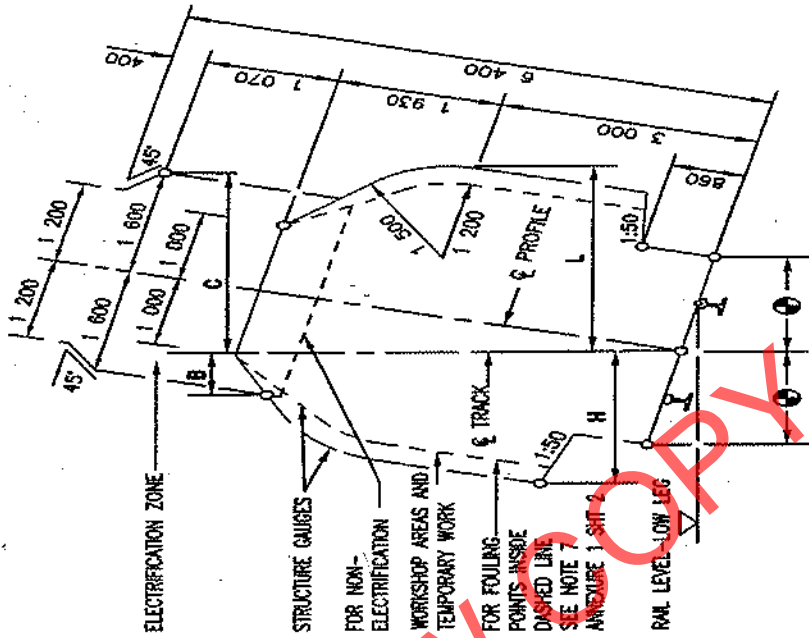
Such equipment includes: -

- (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

HORIZONTAL CLEARANCES :
 1 065mm TRACK GAUGE



RADIUS (m)	WITH CANT		NO CANT		WITH CANT	
	H (mm)	L (mm)	H & L	B (mm)	C (mm)	
90	2 730	3 090	2 780	1 130	2 100	
100	2 700	3 030	2 750	1 140	2 090	
120	2 650	2 970	2 700	1 160	2 010	
140	2 620	2 920	2 660	1 175	1 990	
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	1 860	
600	2 500	2 660	2 510	1 340	1 830	
800	2 480	2 620	2 500	1 365	1 790	
1 000	2 480	2 600	2 490	1 390	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	1 600	1 600	

REMARKS:

1. H AND B IS THE REQUIRED HORIZONTAL CLEARANCE ON THE OUTSIDE OF THE CURVE BASED ON MINIMUM CANT.
2. L AND C IS THE REQUIRED HORIZONTAL CLEARANCE ON THE INSIDE 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.

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DATE : JUNE 2000

Respondent's Signature

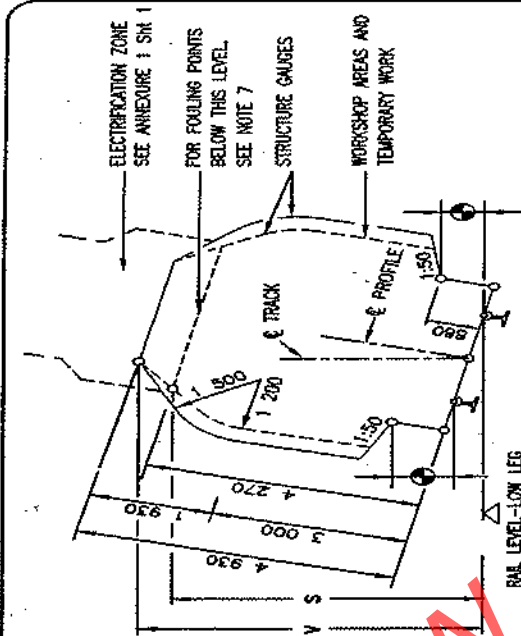
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ANNEXURE 1
 SHEET 2 of 5
 AMENDMENT

VERTICAL CLEARANCES :
 1 065mm TRACK GAUGE



LOCATION	ELECTRIFIED (PRESENT OR FUTURE)	
	NOT ELECTRIFIED	3KV & 25KV BOND
RADIUS (mm)	S (mm)	V (mm)
100	4 470	5 050
300	4 410	5 020
600	4 370	5 000
1 000	4 350	4 990
1 500	4 310	4 960
2 000	4 280	4 940
>3 000	4 270	4 930
* OVER OR NEAR POINTS AND CROSSING IF REQUIRED BY ELECTRICAL IRRESPECTIVE OF RADIUS		5 650
		6 000

ALL AREAS OTHER THAN THOSE INDICATED BY * BELOW

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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.

Respondent's Signature

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Date and Company Stamp

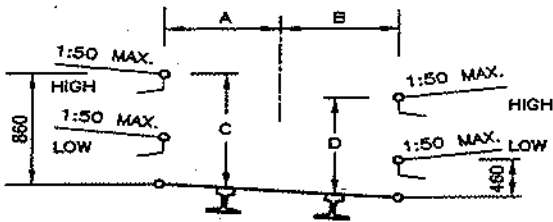


ANNEXURE 1
 SHEET 3 of 5
 AMENDMENT

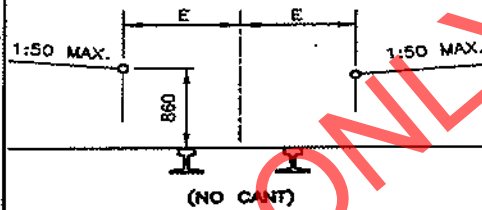
CLEARANCES : PLATFORMS

PLATFORMS : TRACK GAUGE 1 065mm

PASSENGERS



GOODS

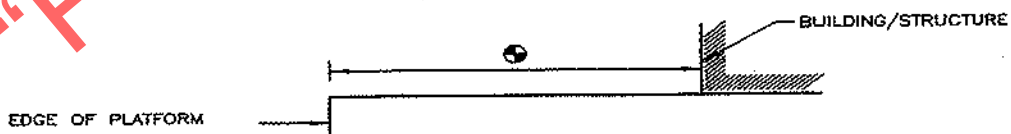


RADIUS (m)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
90	1 690	1 820	890	810	1 840
100	1 650	1 790	890	810	1 810
120	1 610	1 740	890	810	1 760
140	1 580	1 700	890	810	1 720
170	1 550	1 660	890	810	1 690
200	1 530	1 630	890	820	1 670
250	1 520	1 600	890	820	1 640
300	1 520	1 580	890	830	1 620
350	1 520	1 560	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. \odot 8m TO MAIN STATION-BUILDINGS AND 3m TO ALL OTHER STRUCTURES.
4. TOLERANCES : SEE CLAUSE 8.0.10.

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



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Respondent's Signature

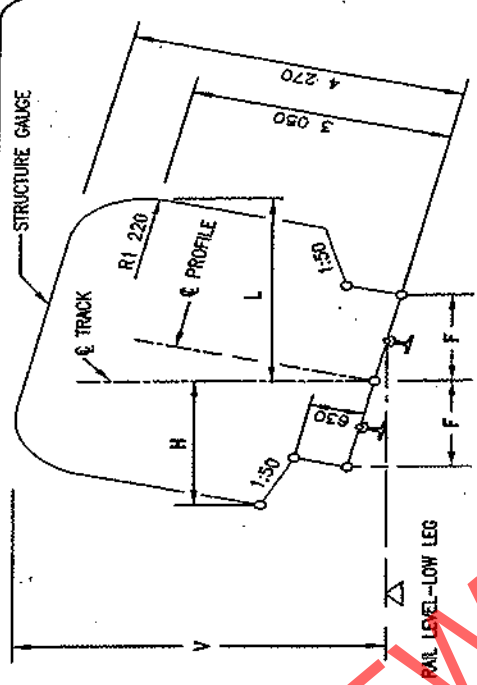
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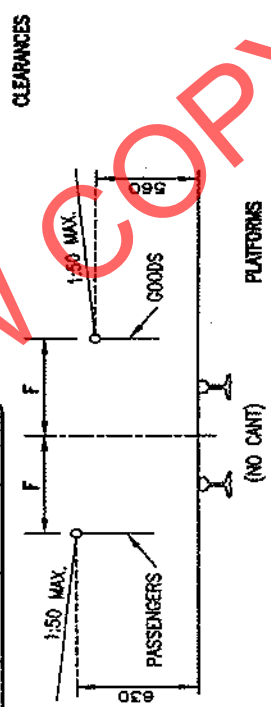
ANNEXURE 1
 SHEET 5 of 5
 AMENDMENT

CLEARANCES : 610mm TRACK GAUGE



RADIUS (m)	F (mm)
50	1 550
60	1 510
80	1 460
100	1 430
120	1 410
140	1 390
170	1 390
200	1 370
250	1 360
300	1 350
600	1 330
1 000	1 320
>2 000	1 320
STRAIGHT	1 310

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



REMARKS:

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

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

Respondent's Signature

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Date and Company Stamp