



**NEC3 Engineering & Construction Short Contract
(ECSC)**

Transnet SOC Ltd

(REGISTRATION NO.1990/000900/30)

trading as

Transnet Freight Rail

Tender No. CRAC-VEG 11816

Refurbishment of Traction transformers at Jupiter, Westonaria and
Rooikop 3kv DC traction substation

Issue Date, 05/09/2014

Closing Date: 18/09/2014

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PART T1: TENDERING PROCEDURES

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PART T1: TENDERING PROCEDURES

T1.1 TENDER NOTICE AND INVITATION TO TENDER

HOAC-VEG-11816

1. PROPOSAL REQUEST

Responses to this RFP [hereinafter referred to as a **Bid** or a **Proposal**] are requested from persons, companies, close corporations or enterprises [hereinafter referred to as an **entity**, **Respondent** or **Bidder**] for the provision of the Refurbishment of the Construction of a secure brick and mortar building with a flat concrete roof to Transnet Freight Rail.

Tenderers should have a CIDB contractor grading designation of **3EP** or higher. Potentially emerging enterprises **2EPPE** who satisfy criteria stated in the Tender Data may submit tender offers. Only Tenderers, who are registered with the CIDB, are eligible to submit tenders.

On or after 08 September 2014, the RFP documents may be inspected at, and are obtainable from the office of the Secretariat, Transnet Freight Rail, Tender Advice Centre, Ground Floor, Inyanda House 1, 21 Wellington Road, Parktown.

RFP documents will only be available for collection between 09:00 and 15:00 from 08 September 2014 until 11 September 2014.

Queries relating to the administrative issues of these documents may be addressed to:

Mr. Lindani Langa

Tel No. 011 584 1427

E mail: Lindani.Langa@transnet.net

Or

Mrs. Sarah Assegaai

Tel. No. 011 5840668

E-mail: Sarah.assegaai@transnet.net

2 FORMAL BRIEFING

A compulsory RFP briefing will be conducted on the 12th of September at Corner Store and Keswick road Germiston.

- a) A Certificate of Attendance must be completed and submitted with your Proposal as proof of attendance is required for a compulsory site meeting and/or RFP briefing.

- b) Transnet will not be held responsible if any Bidder who did not attend the non-compulsory session subsequently feels disadvantaged as a result thereof.
- c) Respondents failing to attend the compulsory RFP briefing will be disqualified.
- d) Respondents without a valid RFP document in their possession will not be allowed to attend the RFP briefing.
- e) The briefing session will start punctually at 10H00 and information will not be repeated for the benefit of Respondents arriving late.

This tender closes punctually at 10:00 hrs. on Thursday 18 September 2014.

If responses are not delivered as stipulated herein, such responses will not be considered and will be treated as "NON-RESPONSIVE" and will be disqualified.

The responses to this RFP will be opened as soon as practicable after the expiry of the time advertised for receiving them.

Transnet shall not, at the opening of responses, disclose to any other company any confidential details pertaining to the Proposals / information received, i.e. pricing, delivery, etc. The names and locations of the Respondents will be divulged to other Respondents upon request.

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

No slips are to be attached to the response documents. Any additional conditions must be embodied in an accompanying letter. Alterations, additions or deletions should not be made by the Respondent to RFP documents. Any alterations must be initialed by the person who signs the Bid Documents

Tenders may only be submitted on the tender documentation that is issued. Telegraphic, telephonic, facsimile, email and late tenders will not be accepted.

Tenders submitted by Tenderers must be neatly bound and the inclusion of loose documents must be avoided.

Requirements for sealing, addressing, delivery, opening and assessment of tenders are stated in the Tender Data.

Compliance of tender(s) with Transnet's requirements is the sole responsibility of the Tenderer and any costs incurred in subsequent modifications to or replacement of equipment accepted by Transnet SOC Ltd in good faith on the grounds of certified compliance with specified standards by the contractor and in fact found to be inadequate in such respects, will be to the relevant Tenderer's account.

3 BROAD-BASED BLACK ECONOMIC EMPOWERMENT AND SOCIO-ECONOMIC OBLIGATIONS

Transnet fully endorses and supports the Government's Broad-Based Black Economic Empowerment Programme and it is strongly of the opinion that all South African business enterprises have an equal obligation to redress the imbalances of the past.

Transnet would therefore prefer to do business with enterprises who share these same values and who are prepared to contribute to meaningful B-BBEE initiatives [including, but not limited to subcontracting and Joint Ventures] as part of their tendered responses. All procurement transactions will be evaluated accordingly.

The Department of Trade and Industry [DTI] is currently in the process of reviewing the B-BBEE Codes of Good Practice [Code Series 000]. Transnet reserves the right to amend this

RFP in line with such reviews and/or amendments once they have come into effect. Transnet furthermore reserves the right to adjust the thresholds and evaluation processes to be aligned with such changes which may be issued by the DTI after the issue date of this RFP.

3.1 B-BBEE Scorecard and Rating

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

- Proposals will be evaluated on price which will be allocated 80 or 90 points and preference which will be allocated 20 or 10 points, dependent on the value of the Services.
- The 80/20 preference point system applies where the acquisition of the Services will be less than R 1,000,000.00. However, if the 80/20 preference point system is stipulated in this RFP and all Bids received exceed R 1,000,000.00, the RFP will be cancelled.
- The 90/10 preference point system applies where the acquisition of the Services will exceed R 1,000,000.00. However, if the 90/10 preference point system is stipulated in this RFP and all Bids received are equal to or below R 1,000,000.00, the RFP will be cancelled.

The **80/20** preference point system is applicable to this RFP.

When Transnet invites prospective service providers to submit Proposals for its various expenditure programmes, it requires Respondents [*Large Enterprises and QSE's - see below*] to have their B-BBEE status verified in compliance with the Government Gazette No 34612, Notice No. 754 dated 23 September 2011. Valid B-BBEE Verification Certificates must be issued by:

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

A Verification Certificate issued must reflect the weighted points attained by the measured entity for each element of the scorecard as well as the overall B-BBEE rating. Enterprises will be rated by Verification Agencies or Registered Auditors based on the following:

- a) **Large Enterprises** [i.e. annual turnover greater than R35 million]:
 - Rating level based on all seven elements of the B-BBEE scorecard
- b) **Qualifying Small Enterprises – QSE** [i.e. annual turnover between R5 million and R35 million]:
 - Rating based on any four of the elements of the B-BBEE scorecard
- c) **Exempted Micro Enterprises – EME** [i.e. annual turnover less than R5 million]:

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

 - Automatic rating of B-BBEE Level 4 irrespective of race or ownership

- Black¹ ownership greater than 50% or Black Women ownership greater than 50% automatically qualify as B-BBEE Level 3

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

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

In this RFP, Transnet will accordingly allocate a maximum of **20 points** in accordance with the **80/20** preference point system prescribed in the Preferential Procurement Policy Framework Act (PPPFA), Act 5 of 2000 and its Regulations to the Respondent's final score based on an entity's B-BBEE scorecard rating.

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

Turnover: Kindly indicate your entity's annual turnover for the past year:
R _____

All Respondents must complete and return the B-BBEE Preference Points Claim Form attached hereto.

3.2 B-BBEE Joint Ventures, Consortiums and/or Subcontractors

In addition to the above, Respondents who would wish to enter into a Joint Venture [JV] or consortium with, or subcontract portions of the contract to, B-BBEE entities, must state in their RFPs the percentage of the total contract value that would be allocated to such B-BBEE entities, should they be successful in being awarded any business. A valid B-BBEE Verification Certificate in respect of such B-BBEE JV or consortium partners and/or subcontractor(s), as well as a breakdown of the distribution of the aforementioned percentage must also be furnished with the RFP Bid to enable Transnet to evaluate in accordance with the processes outlined in the B-BBEE Preference Points Claim Form appended hereto.

a) JVs or Consortiums

If contemplating a JV or consortium, Respondents should also submit a signed JV or consortium agreement between the parties clearly stating the percentage [%] split of business and the associated responsibilities of each party. If such a JV or consortium agreement is unavailable, the partners must submit confirmation in writing of their intention to enter into a JV or consortium agreement should they be awarded business by Transnet through this RFP process. This written confirmation must clearly indicate the percentage [%] split of business and the responsibilities of each party. In such cases, award of business will only take place once a signed copy of a JV or consortium agreement is submitted to Transnet.

(i) Incorporated JVs/Consortiums

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

As part of an incorporated JV/consortium's Bid response, the incorporated JV/consortium must submit a valid B-BBEE Verification Certificate in its registered name.

(ii) Unincorporated JVs/Consortiums

As part of an unincorporated JV/consortium's tendered response, the unincorporated JV/consortium must submit a consolidated B-BBEE certificate as if it was a group structure and such scorecard must have been prepared for this RFP in particular.

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

b) Subcontracting

If contemplating subcontracting, please note that a Respondent will not be awarded points for B-BBEE if it is indicated in its Proposal that such Respondent intends subcontracting more than 25% [twenty-five per cent] of the value of the contract to an entity that does not qualify for at least the same points that the Respondent qualifies for, unless the intended subcontractor is an EME with the capability to execute the contract.

A person awarded a contract may not subcontract more than 25% [twenty-five per cent] of the value of the contract to any other enterprise that does not have an equal or higher B-BBEE status level than the person concerned, unless the contract is subcontracted to an EME that has the capability and ability to execute the subcontract.

3.3 **B-BBEE Registration**

In addition to the Verification Certificate, Transnet recommends that Respondents register their B-BBEE compliance and supporting documentation on the Department of Trade and Industry's [DTI] National B-BBEE IT Portal and Opportunities Network and provide Transnet with proof of registration in the form of an official B-BBEE Profile issued by the DTI.

Transnet would wish to use the DTI B-BBEE IT Portal as a data source for tracking B-BBEE compliance.

For instructions to register and obtain a DTI B-BBEE Profile go to <http://bee.thedti.gov.za>.

Supplier Development Initiatives

Historically in South Africa there has been a lack of investment in infrastructure, skills and capability development and inequality in the income distribution and wealth of a significant portion of the population. There have been a number of Government initiatives developed to address these challenges. In particular, the New Growth Path [NGP] developed in 2010 aligns and builds on previous policies to ensure the achievement of Government's development objectives for South Africa.

Transnet fully endorses and supports Government's New Growth Path policy through its facilitation of Supplier Development [SD] initiatives. Hence Respondents are required to submit their commitments with regard to Supplier Development Initiatives over the duration of this contract.

4 COMMUNICATION

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

- 4.1 For specific queries relating to this RFP, an RFP Clarification Request Form should be submitted before 15:00 on 17/09/2013, substantially in the form set out hereto. In the interest of fairness and transparency Transnet's response to such a query will then be made available to the other Respondents who have collected RFP documents. For this purpose Transnet will communicate with Respondents using the contact details provided to the Secretariat on issue of the bid documentation to the Respondent. Kindly ensure that you provide the Secretariat with the correct contact details, as Transnet will not accept responsibility for being unable to contact a bidder who provided incorrect contact details.
- 4.2 After the closing date of the RFP, a Respondent may only communicate with the Secretariat of the Transnet Freight Rail Acquisition Council, at telephone no. 011 544 9486 on any matter relating to its RFP Proposal.

Respondents found to be in collusion with one another will be automatically disqualified and restricted from doing business with Transnet in the future.

5 INSTRUCTIONS FOR COMPLETING THE RFP

- 5.1 Sign one set of original documents. This set will serve as the legal and binding copy. A duplicate set of documents is required. This second set must be an exact copy of the original signed Proposal.
- 5.2 Both sets of documents are to be submitted to the address specified in Tender Data.
- 5.3 All returnable documents tabled in the Proposal Form must be returned with your Proposal.

6 COMPLIANCE

The successful Respondent [hereinafter referred to as the **Service Provider**] shall be in full and complete compliance with any and all applicable laws and regulations.

7 ADDITIONAL NOTES

- 7.1 Changes by the Respondent to its submission will not be considered after the closing date.
- 7.2 The person or persons signing the Proposal must be legally authorised by the Respondent to do so. A list of those person(s) authorised to negotiate on behalf of the Respondent [if not the authorised signatories] must also be submitted along with the Proposal together with their contact details.
- 7.3 Bidders who fail to submit a duly completed and signed RFP Declaration Form will not be considered.
- 7.4 Transnet will not do business with companies involved in B-BBEE fronting practices.
- 7.5 Transnet may wish to visit the Respondent's place of business during this RFP process.

- 7.6 Transnet reserves the right to undertake post-tender negotiations [PTN] with selected Respondents or any number of short-listed Respondents, such PTN to include, at Transnet's option, any evaluation criteria listed in this RFP document.
- 7.7 Unless otherwise expressly stated, all Proposals furnished pursuant to this RFP shall be deemed to be offers. Any exceptions to this statement must be clearly and specifically indicated.

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

8 DISCLAIMERS

Respondents are hereby advised that Transnet is not committed to any course of action as a result of its issuance of this RFP and/or its receipt of Proposals. In particular, please note that Transnet reserves the right to:

- 8.1 Modify the RFP's Services and request Respondents to re-bid on any such changes;
- 8.2 Reject any Proposal which does not conform to instructions and specifications which are detailed herein;
- 8.3 Disqualify Proposals submitted after the stated submission deadline [Closing Date];
- 8.4 Not necessarily accept the lowest priced Proposal or an alternative bid;
- 8.5 Reject all Proposals, if it so decides;
- 8.6 Withdraw the RFP on good cause shown;
- 8.7 Award a contract in connection with this Proposal at any time after the RFP's closing date;
- 8.8 Award a contract for only a portion of the proposed Services which are reflected in the scope of this RFP;
- 8.9
- 8.10 Make no award of a contract.

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

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

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

9 LEGAL REVIEW

A Proposal submitted by a Respondent will be subjected to review and acceptance or rejection of its proposed contractual terms and conditions by Transnet's Legal Counsel, prior to consideration for an award of business.

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

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PART T1.2: TENDER DATA

PART T1: TENDERING PROCEDURES

T1.2 TENDER DATA

The conditions of tender are the Standard Conditions of Tender as contained in Annex F of the CIDB Standard for Uniformity in Construction Procurement.

The Standard Conditions of Tender make several references to the Tender Data for details that apply specifically to this tender. The Tender Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the standard conditions of tender. Each item of data given below is cross-referenced to the clause in the Standard Conditions of Tender to which it mainly applies.

F.1.1 The employer is Transnet SOC Ltd trading as Transnet Freight Rail

F.1.2 The tender documents issued by the employer comprise:

Part T1: Tendering procedures

T1.1 Tender notice and invitation to tender

T1.2 Tender data

Part T2: Returnable documents

T2.1 List of returnable documents

T2.2 Returnable schedules

Part C1: Agreements and contract data

C1.1 Form of offer and acceptance

C1.2 Contract data

C1.3 Forms of Security

C1.4 Adjudicator's Contract Data

Part C2: Pricing data

C2.1 Pricing instructions

C2.2 Bill of Quantities/ Activity Schedule

Part C3: Scope of work

C3 Scope of work

Part C4: Site information

C4 Site information

F.1.4 The employer's agent is:

Name : Zola Qubu

Address : No1 Anvil Road

Goods Building

Tel : 011 583 7491

E-mail : zola.qubu@transnet.net

Tenderers must sign the attendance list in the name of the tendering entity. Addenda will be issued to and tenders will be received only from those tendering entities appearing on the attendance list.

F.2.1.1 The following Tenderers who are registered with the CIDB, or are capable of being so registered prior to the evaluation of submissions, are eligible to submit tenders:

- a) contractors who have a contractor grading designation equal to or higher than a contractor grading designation determined in accordance with the sum tendered for a **3EP** class of construction work; and
- b) contractors registered as potentially emerging enterprises with the CIDB who are registered in one contractor grading designation lower than that required in terms of a) above and who satisfy the following criteria:
 - ☐ **Has technical qualifications and competence.**
 - ☐ **Has managerial capacity, reliability and experience.**
 - ☐ **Has good reputation.**
 - ☐ **Has equipment.**

Joint ventures are eligible to submit tenders provided that:

1. every member of the joint venture is registered with the CIDB;
2. the lead partner has a contractor grading designation in the **3EP** class of construction work; and
3. the combined contractor grading designation calculated in accordance with the Construction Industry Development Regulations is equal to or higher than a contractor grading designation determined in accordance with the sum tendered for a **3EP** class of construction work.

F.2.7 The arrangements for a compulsory clarification meeting are: **as stated in the Tender Notice and Invitation to Tender**

Confirmation of attendance to be notified at least one full working day in advance to:

Name : Mr. Lindani Langa

Tel : 011 584 1427

E-mail : Lindani.Langa@transnet.net

Tenderers must sign the attendance list in the name of the tendering entity. Addenda will be issued to and tenders will be received only from those tendering entities appearing on the attendance list.

F.2.12 No alternative tender offers will be considered.

F.2.12 If a Tenderer wishes to submit an alternative tender offer, the only criteria permitted for such alternative tender offer is that it demonstrably satisfies the Employer's standards and requirements, the details of which may be obtained from the Employer's Agent.

Calculations, drawings and all other pertinent technical information and characteristics as well as modified or proposed Pricing Data must be submitted with the alternative tender offer to enable the Employer to evaluate the efficacy of the alternative and its principal elements, to take a view on the degree to which the alternative complies with the Employer's standards and requirements and to evaluate the acceptability of the pricing proposals. Calculations must be set out in a clear and logical sequence and must clearly reflect all design assumptions.

Pricing Data must reflect all assumptions in the development of the pricing proposal.

Acceptance of an alternative tender offer will mean acceptance in principle of the offer. It will be an obligation of the contract for the Tenderer, in the event that the alternative is accepted, to accept full responsibility and liability that the alternative offer complies in all respects with the Employer's standards and requirements.

The modified Pricing Data must include an amount equal to 5% of the amount tendered for the alternative offer to cover the Employer's costs of confirming the acceptability of the detailed design before it is constructed.

F.2.13.3 Parts of each tender offer communicated on paper shall be submitted as an original, plus **one** copy.

F.2.13.5 The employer's address for delivery of tender offers and identification details to be shown on each tender offer package are:

If delivered by hand, the envelope is to be deposited in the Transnet Freight Rail Acquisition Council tender box which is located in the foyer on the ground floor, Inyanda House 1, 21 Wellington Road, Parktown, Johannesburg and addressed as follows:

The Chairperson
Transnet Freight Rail Acquisition Council
Inyanda House 1
21 Wellington Road
Parktown
Johannesburg
2001

It should also be noted that the above tender box is accessible to the public 24 hours per day, 7 days a week. The measurements of the "tender slot" are 500mm long x 100mm wide, and Tenderers must please ensure that tender documents/files are not larger than the above dimensions. Tenders which are too bulky (i.e. more than 100mm thick) must be split into two or more files, and placed in separate envelopes, each addressed as above.

If dispatched by courier, the envelope must also be addressed as above and delivered to the Office of The Secretariat, Transnet Freight Rail Acquisition Council and a signature obtained from that Office.

Identification details

Tenders must be submitted before the closing hour on the date as shown in F2.15 below, and must be enclosed in a sealed envelope which must have inscribed on the outside:

- (a) Tender No: CRAC-VEG-11816
- (b) Description of work: Refurbishment of Traction transformers at Jupiter, Westonaria and Rooikop
- (c) Closing date and Time: 18 September 2014 at 10H00
- (d) Closing Address: Inyanda House 1, Wellington road, Parktown, Johannesburg, 2001

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

F.2.13.6 A two-envelope procedure will not be followed.

F.2.15 The closing time for submission of tender offers is **as stated in the Tender Notice and Invitation to Tender**.

F.2.15 Telephonic, telegraphic, telex, facsimile or e-mailed tender offers will not be accepted.

F.2.16 The tender offer validity period is **12 weeks**

F.2.19 Access shall be provided for inspections, tests and analysis:
All sites as stated in the Scope of Work (Description of the Work)

F.2.23 The Tenderer is required to submit the following certificates with his tender:

- 1.) An original valid Tax Clearance Certificate issued by the South African Revenue Services. **Failure to provide this document with the tender submission will result in disqualification.**
- 2) BBBEE evaluation certificate done by an accredited company.
- 3) Where a Tenderer satisfies CIDB contractor grading designation requirements through joint venture formation, such Tenderers must submit the Certificates of Contractor Registration in respect of each partner.

F.3.4 The time and location for opening of the tender offers are:
Time 10:15 on the closing date of tender.
Location: Table G66 & 69, West Wing, Ground Floor, Inyanda House, 21 Wellington Road, Parktown, Johannesburg

F3.11.1 Responsive and Substantive Test:

Step 1: Administrative Responsiveness: All Returnable Documents/Schedules provided: Mandatory and Essential

Step 2: Substantive Responsiveness:
All Mandatory documents complete and correct and acceptable response to any clarification on Essential documentation

Step 3: Test minimum threshold of **70%** for Technical (Quality) Criteria:
(Points are NOT carried over to Stage 4)

Technical Criteria:

Evaluation Criteria	Max no of points	
• Compliance to Specifications	25%	100%
• Delivery period	20%	
• Technical Capacity/resources ,proof of qualifications in related field electrical and C-Green	30%	
• Safety plan	25%	

Step 4: Financial offer and Preference

F3.11.3 The procedure for the evaluation of responsive tenders is Method 2

The score for financial offer is calculated using Formula 2 (option 1) of SANS 294,

F3.11.7 Score the financial offers of remaining responsive offers using the following formula:

$$N_{F0} = W_1 \times A$$

Where: N_{F0} is the number of tender evaluation points awarded for the financial offer.

W_1 is the maximum possible number of tender evaluation points awarded for the financial offer as stated in the Tender Data.

A is a number calculated using the formula and option described in Table F.1 as stated in the Tender Data.

Up to 100 minus T_{EV} tender evaluation points will be awarded to Tenderers for SD.

Description of quality criteria and sub criteria			Max no of points
Commercial	Competitive Pricing	100	80
BBBEE	Points scored: Step 3	100	20
Total evaluation points			100

F.3.13.1 Tender offers will only be accepted if:

- a) The Tenderer has completed and returned all returnable documents and schedules.
- b) The Tenderer is registered with the Construction Industry Development Board in an appropriate contractor grading designation;
- c) The Tenderer or any of its directors is not listed on the Register of Tender Defaulters in terms of the Prevention and Combating of Corrupt Activities Act of 2004 as a person prohibited from doing business with the public sector.
- d) The Tenderer has not:
 - i) abused the Employer's Supply Chain Management System; or
 - ii) failed to perform on any previous contract and has been given a written notice to this effect; and
- f) has completed the Compulsory Enterprise Questionnaire and there are no conflicts of interest which may impact on the Tenderer's ability to perform the contract in the best interests of the employer or potentially compromise the tender process.

Tender will be disqualified if all returnable documents and schedules are not returned.

F.3.18 The number of paper copies of the signed contract to be provided by the employer is **one**.

The additional conditions of tender are:

- 1 The Tenderer is deemed to have satisfied himself before tendering as to the correctness and sufficiency of his tender for the *works* and of the rates and prices stated in the priced Bill of Quantities in the *works* Information. The rates and prices (except in so far as otherwise provided in the Tender) collectively cover full payment for the discharge of all his obligations under the Contract and all matters and things necessary for the proper completion of the *works*.
- 2 **NO PRICING is to be reflected / listed in any tender document other than in the Form of Offer and Bill of Quantities / Price List**
- 3 The tenders shall be completed in black ink only.

- 4 Tenderers shall give a clause by clause comment as to whether or not their tender complies. If not, how it differs from the specification(s). Failure to do so may preclude a tender from consideration.
- 5 Notwithstanding what is stated in Pricing Data, Tenderers are required to tender for all the areas quoted in the Bill of Quantities, if possible.
- 6 Transnet Freight Rail may conclude one or more contracts as a result of this tender.

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PART T2: RETURNABLE DOCUMENTS

PREVIEW COPY ONLY

PART T2: RETURNABLE DOCUMENTS

T2.1 LIST OF RETURNABLE DOCUMENTS

The Tenderer must complete the following returnable documents:

(Tender will be disqualified if all returnable documents and schedules are not returned)

1 Returnable Schedules required for tender evaluation purposes

No	Returnable schedules (All are to be submitted)	Yes	No
1	Record of Addenda to Tender documents		
2	Certificate of authority for joint ventures (where applicable)		
3	Proposed amendments and qualifications		
4	Contractual Safety Clauses and Questionnaire		
5	RFP Declaration Form		
6	Annexure B - Non-Disclosure Agreement		
7	BBBEE Preference Points Claim Form		
8	Certificate of Acquaintance with RFP Documents		
9	Curriculum Vitae of key personnel		
10	Certificate of Attendance at Site/Clarification Meeting		
11	Compulsory Enterprise Questionnaire		
12	Schedule of Subcontractors		
13	Schedule of Plant and Equipment		
14	Schedule of the Tenderer's Experience		
15	Supplier Declaration form (version 7)		
16	Breach of Law Form		
17	RFP Clarification Form		
18	Supplier Code of Conduct		

2 Other documents required for tender evaluation purposes

No	Returnable Documents (<u>All</u> are to be submitted)	To be included in the contract	
1	Safety Plan in accordance with the Construction Regulations of 2003 and Transnet's E4E (See Draft)		
2	Comprehensive Environmental Management Plan, Risk Register and Business Continuity Plan. Risk register to cover identified risks associated with this project and accompanying risk mitigation measures		
3	Form of Intent to provide performance bond		
4	Certificate of Authority for Signatory (Resolution by Board)		
5	Approach paper and work plan (Programme and Method statements)		
6	Statement of compliance with requirements of the Scope of work		
7	Letter of Good Standing with the Compensation Commissioner		
8	Quality Assurance Plan		
9	Proposed Organization and Staffing including quantity of personnel to be trained in aspects of safety		
10	BBBEE rating certificate with detailed scorecard		
11	Certified Copy of CIDB certification		
12	Certified Copy of Financial Statements (for the past 3 years) including Balance sheets		
13	Certified Copies: Share Certificates; CK1; CK2		
14	Certified copies: Certificate of Incorporation; CM29; CM9		
15	Certified Copies: Identity Documents Shareholders/ Directors/ Members		
16	Cancelled Cheque		
17	Current and original Tax clearance certificate		
18	Vat registration certificate		
19	Copy of BEE Policy/BEE Plan/Employment Policy/Procurement Policy		

3 Other documents that will be incorporated into the contract

3.1 C1.1 Form of Offer and Acceptance

3.2 C1.2 Contract Data (Part 1 and 2)

3.3 C2.2 Bill of Quantities / Price List

CK1; CK2 – Registr of cc's

Certif of Incorp; CM29; CM9 – for PTY's (CM9-Name Change)(CM29-Reg of Dir)

T2.2 RETURNABLE SCHEDULES

- Record of Addenda to Tender documents
- Certificate of authority for joint ventures (where applicable)
- Proposed amendments and qualifications
- Contractual Safety Clauses and Questionnaire
- RFP Declaration Form
- Annexure B - Non-Disclosure Agreement
- BBBEE Preference Points Claim Form
- Certificate of Acquaintance with RFP Documents
- Curriculum Vitae of key personnel
- Certificate of Attendance at Site/Clarification Meeting
- Compulsory Enterprise Questionnaire
- Schedule of Subcontractors
- Schedule of Plant and Equipment
- Schedule of the Tenderer's Experience
- Supplier Declaration form (version 7)
- Breach of Law Form
- RFP Clarification Form
- Supplier Code of Conduct

Record of Addenda to Tender Documents

We confirm that the following communications received from the Employer before the submission of this tender offer, amending the tender documents, have been taken into account in this tender offer:

	Date	Title or Details
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

Attach additional pages if more space is required.

Signed

Date

Name

Position

Tenderer

Certificate of Authority for Joint Ventures

This Returnable Schedule is to be completed by joint venture.

We, the undersigned, are submitting this tender offer in Joint Venture and hereby authorise Mr/Ms....., authorised signatory of the company....., acting in the capacity of lead partner, to sign all documents in connection with the tender offer and any contract resulting from it on our behalf.

NAME OF FIRM	ADDRESS	DULY AUTHORIZED SIGNATURE
Lead partner		Signature..... Name..... Designation
		Signature..... Name..... Designation
		Signature..... Name..... Designation

FOREIGN EXCHANGE RATE

INFORMATION REQUIRED TO BE FURNISHED BY TENDERERS.

1. Particulars of the exchange rate on which prices are based:

_____ (Foreign currency) equals R_____ (South African currency)

Note: Tenderers who offer imported material shall base their tenders on the selling rate of exchange that ruling on the last working day of the month prior to the closing date of tenders.

2. The percentage of the tender prices which is to be remitted by the Tenderers from South Africa to another country is _____% of the f.o.b. /c. and f. /f.o.r. in bond price (delete those not applicable).

Note: (a) The percentage quoted above will be deemed to apply even though a portion only of the item(s) tendered for is accepted.

(b) Adjustment in respect of variation in exchange rate will be allowed only on the percentage of the tendered price quoted above.

3. The tendered price shall be computed at the rate of exchange stated by the Tenderer in paragraphs 1 and 2 above as applied to the percentage of the tendered price quoted.
4. Transnet Freight Rail will accept for its account, in respect of such percentage of the tendered price as will be affected by the rate of exchange, any variation between the rate mentioned in paragraph 1 above, and the rate ruling at the date when payment for the goods is made by Transnet Freight Rail; provided that if the Contractor is required to remit the whole or portion of the contract price to another country in payment for goods or portion thereof prior to receiving payment from Transnet Freight Rail, the date(s) of such remittance(s) shall be deemed to be the date(s) of payment by Transnet Freight Rail for the purposes of this paragraph.
5. In the absence of a specific indication by the Contractor at the time of tendering that the proviso to paragraph 3 will apply, it will be assumed that the Contractor desires the adjustment to be effected by reference to the date on which actual payment is made by Transnet Freight Rail.
6. (a) The Contractor shall, if so required, furnish documentary proof to establish that the percentage of the contract price specified by him in paragraph 2 has actually been remitted to another country and the rate of exchange at which that was done.
(b) Whenever the Contractor is required to remit the whole or portion of the contract price, to another country as contemplated in the proviso to paragraph 2 above, he shall notify Transnet Freight Rail forthwith and furnish documentary evidence of such remittance and of the rate of exchange at which that was done.
7. Invoices in respect of goods supplied must reflect the amount remitted or to be remitted to another country and the amount to be retained in South Africa.

8. The contractor shall take out forward cover for all imported materials and services within 14 days of award of the contract. Proof shall be submitted to the Project Manager/Manager in charge of the contract. The cost of forward cover shall be invoiced separate from the contract invoices and shall not be included in the tender price.

SIGNATURE OF TENDERER

DATE: _____

WITNESSES:

1. _____

2. _____

ADDRESS: _____

Proposed amendments and qualifications

The Tenderer should record any deviations or qualifications he may wish to make to the tender documents in this Returnable Schedule. Alternatively, a Tenderer may state such deviations and qualifications in a covering letter to his tender and reference such letter in this schedule.

The Tenderer's attention is drawn to clause F.3.8 of the Standard Conditions of Tender referenced in the Tender Data regarding the employer's handling of material deviations and qualifications.

Page	Clause or item	Proposal

Signed

Date

Name

Position

Tenderer

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Curriculum Vitae of Key Personnel

Name:	Date of birth:
Profession:	Nationality:
Qualifications:	
Professional registration number:	
Name of employer (firm):	
Current Position:	Years with the firm:
Employment record: (list in chronological order starting with earliest work experience)	
A. Experience record pertinent to required service	
Certification:	
I, the undersigned, certify that to the best of my knowledge and belief, this data correctly describes me, my qualifications and my experience.	
<hr/> <i>[Signature of person named in schedule]</i>	<hr/> Date

Certificate of Attendance at Clarification/Site Meeting/s

This is to certify that

_____ (Tenderer)

of _____ (address)

_____ was represented by the person(s) named below at the compulsory meetings held for all Tenderers on the dates listed below. We acknowledge that the purpose of the meeting was to acquaint ourselves with the Site of the Works and/or matters incidental to doing the work specified in the tender documents in order for us to take account of everything necessary when compiling our rates and prices included in the tender.

Particulars of Company representative(s) attending the **CLARIFICATION MEETING**:

Name: _____ Signature _____

Capacity: _____ Date and time _____

Attendance of the above person/s is confirmed by the Employer's representative:

Name: _____ Signature _____

Capacity: _____ Date and time _____

Particulars of Company representative(s) attending the **SITE MEETING**:

Name: _____ Signature _____

Capacity: _____ Date and time _____

Attendance of the above person/s is confirmed by the Employer's representative:

Name: _____ Signature _____

Capacity: _____ Date and time _____

Compulsory Enterprise Questionnaire

The following particulars must be furnished. In the case of a joint venture, separate enterprise questionnaires in respect of each partner must be completed and submitted.

Section 1: Name of enterprise:

Section 2: VAT registration number, if any:

Section 3: CIDB registration number, if any:

Section 4: Particulars of sole proprietors and partners in partnerships

Name*	Identity number*	Personal income tax number*

* Complete only if sole proprietor or partnership and attach separate page if more than 3 partners

Section 5: Particulars of companies and close corporations

Company registration number

Close corporation number

Tax reference number

Section 6: Record in the service of the state

Indicate by marking the relevant boxes with a cross, if any sole proprietor, partner in a partnership or director, manager, principal shareholder or stakeholder in a company or close corporation is currently or has been within the last 12 months in the service of any of the following:

- | | |
|--|---|
| <input type="checkbox"/> a member of any municipal council | <input type="checkbox"/> an employee of any provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act 1 of 1999) |
| <input type="checkbox"/> a member of any provincial legislature | |
| <input type="checkbox"/> a member of the National Assembly or the National Council of Province | <input type="checkbox"/> a member of an accounting authority of any national or provincial public entity |
| <input type="checkbox"/> a member of the board of directors of any municipal entity | <input type="checkbox"/> an employee of Parliament or a provincial legislature |
| <input type="checkbox"/> an official of any municipality or municipal entity | |

If any of the above boxes are marked, disclose the following:

Name of sole proprietor, partner, director, manager, principal shareholder or stakeholder	Name of institution, public office, board or organ of state and position held	Status of service (tick appropriate column)	
		Current	Within last 12 months

*insert separate page if necessary

Section 7: Record of spouses, children and parents in the service of the state

Indicate by marking the relevant boxes with a cross, if any spouse, child or parent of a sole proprietor, partner in a partnership or director, manager, principal shareholder or stakeholder in a company or close corporation is currently or has been within the last 12 months been in the service of any of the following:

- | | |
|--|---|
| <input type="checkbox"/> a member of any municipal council | <input type="checkbox"/> an employee of any provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act 1 of 1999) |
| <input type="checkbox"/> a member of any provincial legislature | <input type="checkbox"/> a member of an accounting authority of any national or provincial public entity |
| <input type="checkbox"/> a member of the National Assembly or the National Council of Province | <input type="checkbox"/> an employee of Parliament or a provincial legislature |
| <input type="checkbox"/> a member of the board of directors of any municipal entity | |
| <input type="checkbox"/> an official of any municipality or municipal entity | |

Name of spouse, child or parent	Name of institution, public office, board or organ of state and position held	Status of service (tick appropriate column)	
		Current	Within last 12 months

*insert separate page if necessary

The undersigned, who warrants that he / she is duly authorised to do so on behalf of the enterprise:

- authorizes the Employer to obtain a tax clearance certificate from the South African Revenue Services that my / our tax matters are in order;
- confirms that the neither the name of the enterprise or the name of any partner, manager, director or other person, who wholly or partly exercises, or may exercise, control over the enterprise appears on the Register of Tender Defaulters established in terms of the Prevention and Combating of Corrupt Activities Act of 2004;
- confirms that no partner, member, director or other person, who wholly or partly exercises, or may exercise, control over the enterprise appears, has within the last five years been convicted of fraud or corruption;
- confirms that I / we are not associated, linked or involved with any other tendering entities submitting tender offers and have no other relationship with any of the Tenderers or those responsible for compiling the scope of work that could cause or be interpreted as a conflict of interest; and
- confirms that the contents of this questionnaire are within my personal knowledge and are to the best of my belief both true and correct.

Signed

Date

Name

Position

Enterprise
name

Schedule of Proposed Subcontractors

We notify you that it is our intention to employ the following Subcontractors for work in this contract.

If we are awarded a contract we agree that this notification does not change the requirement for us to submit the names of proposed Subcontractors in accordance with requirements in the contract for such appointments. If there are no such requirements in the contract, then your written acceptance of this list shall be binding between us.

We confirm that all team supervisors of subcontractors who are contracted to control vegetation are registered as Pest Control Operators, specializing in the field of industrial weed control, in terms of Act 36 of 1947 (Farm Feeds Agricultural and Stock Remedies Act).

	Name and address of proposed Subcontractor	Nature and extent of work	Previous experience with Subcontractor.
1.			
2.			
3.			
4.			
5.			

Signed

Date

Name

Position

Tenderer



Schedule of Plant and Equipment

The following are lists of major items of relevant Equipment that I/we presently own or lease and will have available for this contract or will acquire or hire for this contract if my/our tender is accepted.

(a) Details of major Equipment that is owned by and immediately available for this contract.

Quantity	Description, size, capacity, etc.

Attach additional pages if more space is required.

(b) Details of major Equipment that will be hired, or acquired for this contract if my/our tender is acceptable.

Quantity	Description, size, capacity, etc.

Attach additional pages if more space is required.

Signed

Date

Name

Position

Tenderer

Schedule of the Tenderer's Experience

The following is a statement of similar work successfully executed by myself/ourselves:

Employer, contact person and telephone number	Description of contract	Value of work Inclusive of VAT (Rand)	Date Completed

Signed _____ Date _____

Name _____ Position _____

Tenderer _____

1 EXCHANGE AND REMITTANCE

The attention of the Respondents is directed to clause 2 below. If Transnet is requested by the Respondent to effect payment overseas direct to the Respondent's principal or service provider, which is not a registered South African Company please complete the details below, using the rate of exchange published by the South African Reserve Bank 7 [seven] calendar days before the closing date of this RFP:

- 1.1 ZAR 1.00 [South African currency] being equal to _____ [foreign currency]
- 1.2 _____ % in relation to tendered price(s) to be remitted overseas by Transnet
- 1.3 _____ [Name of country to which payment is to be made]
- 1.4 Beneficiary details:
Name [Account holder] _____
Bank [Name and branch code] _____
Swift code _____
Country _____
- 1.5 _____ [Applicable base date of Exchange Rate used]

Respondents should note that Transnet would prefer to receive fixed price offers expressed in South African Rand [ZAR].

2 EXCHANGE AND REMITTANCE

- 2.1 The Respondent should note that where the whole or a portion of the contract or order value is to be remitted overseas, Transnet shall, if requested to do so by the Service Provider, effect payment overseas directly to the foreign principal of such percentage of the contract or order value as may be stipulated by the Respondent in its Bid Documents.
- 2.2 It is Transnet's preference to enter into Rand-based agreements. Transnet would request, therefore, that the Respondent give favourable consideration to obtaining forward exchange cover on the foreign currency portion of the Agreement at a cost that is acceptable to Transnet to protect itself against any currency rate fluctuation risks for the duration of any resulting contract or order.
- 2.3 The Respondent who desires to avail itself of the aforementioned facility must at the time of bidding furnish the information called for in the *Exchange and Remittance* section of the Bid Documents and also furnish full details of the principals to whom payment is to be made.
- 2.4 The South African Reserve Bank's approval is required before any foreign currency payments can be made to or on behalf of Respondents.
- 2.5 Transnet will not recognise any claim for adjustment of the order and/or contract price if the increase in price arises after the date on which agreement on an overall Rand contract has been reached.
- 16.6 Transnet reserves the right to request a pro-forma invoice/tax invoice in order to ensure compliance with the contract and Value-Added Tax Act no. 89 of 1991 [VAT Act].

SIGNED at _____ on this _____ day of _____ 20__

SIGNATURE OF WITNESS

SIGNATURE OF RESPONDENT

RFP DECLARATION FORM

NAME OF ENTITY: _____

We _____ do hereby certify that:

1. Transnet has supplied and we have received appropriate responses to any/all questions [as applicable] which were submitted by ourselves for RFP Clarification purposes;
2. We have received all information we deemed necessary for the completion of this Request for Proposal [RFP];
3. At no stage have we received additional information relating to the subject matter of this RFP from Transnet sources, other than information formally received from the designated Transnet contact(s) as nominated in the RFP documents;
4. We are satisfied, insofar as our entity is concerned, that the processes and procedures adopted by Transnet in issuing this RFP and the requirements requested from Bidders in responding to this RFP have been conducted in a fair and transparent manner; and
5. Furthermore, we declare that a family, business and/or social relationship exists / does not exist [delete as applicable] between an owner / member / director / partner / shareholder of our entity and an employee or board member of the Transnet Group.
6. If such a relationship exists, Respondent is to complete the following section:

FULL NAME OF OWNER/MEMBER/DIRECTOR/

PARTNER/SHAREHOLDER:

ADDRESS:

Indicate nature of relationship with Transnet:

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

7. We declare, to the extent that we are aware or become aware of any relationship between ourselves and Transnet [other than any existing and appropriate business relationship with Transnet] which could unfairly advantage our entity in the forthcoming adjudication process, we shall notify Transnet immediately in writing of such circumstances.
8. We accept that any dispute pertaining to this Bid will be resolved through the Ombudsman process and will be subject to the Terms of Reference of the Ombudsman. The Ombudsman process must first be exhausted before judicial review of a decision is sought. [Refer "Important Notice to Respondents" overleaf].
9. We further accept that Transnet reserves the right to reverse an award of business or decision based on the recommendations of the Ombudsman without having to follow a formal court process to have such award or decision set aside.

SIGNED at _____ on this _____ day of _____ 20____

For and on behalf of _____ duly authorised hereto	AS WITNESS:
Name:	Name:
Position:	Position:
Signature:	Signature:
Date:	
Place:	

IMPORTANT NOTICE TO RESPONDENTS

- Transnet has appointed a Procurement Ombudsman to investigate any material complaint in respect of RFPs exceeding R 5,000,000.00 [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 familiarise himself/herself with the Terms of Reference for the Transnet 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 R 5,000,000.00 [five million S.A. Rand] threshold, a complaint may be lodged with the Chief Procurement Officer of the relevant Transnet 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.

Annexure B

NON-DISCLOSURE AGREEMENT

entered into by and between

TRANSNET SOC LTD

Registration Number 1990/000900/30

and

Registration Number _____

PREVIEW COPY ONLY

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THIS AGREEMENT is made between

Transnet SOC Ltd [Transnet] [Registration No. 1990/000900/30]

whose registered office is at 49th Floor, Carlton Centre, 150 Commissioner Street, Johannesburg 2001,
and

_____ **[the Company]** [Registration No _____]

whose registered office is at _____

WHEREAS

Transnet and the Company wish to exchange Information [as defined below] and it is envisaged that each party may from time to time receive Information relating to the other in respect thereof. In consideration of each party making available to the other such Information, the parties jointly agree that any dealings between them shall be subject to the terms and conditions of this Agreement which themselves will be subject to the parameters of the Bid Document.

IT IS HEREBY AGREED

1 INTERPRETATION

In this Agreement:

- 1.1 **Agents** mean directors, officers, employees, agents, professional advisers, contractors or sub-contractors, or any Group member;
- 1.2 **Bid or Bid Document** means Transnet's Request for Information [**RFI**] Request for Proposal [**RFP**] or Request for Quotation [**RFQ**], as the case may be;
- 1.3 **Confidential Information** means any information or other data relating to one party (the **Disclosing Party**) and/or the business carried on or proposed or intended to be carried on by that party and which is made available for the purposes of the Bid to the other party (the **Receiving Party**) or its Agents by the Disclosing Party or its Agents or recorded in agreed minutes following oral disclosure and any other information otherwise made available by the Disclosing Party or its Agents to the Receiving Party or its Agents, whether before, on or after the date of this Agreement, and whether in writing or otherwise, including any information, analysis or specifications derived from, containing or reflecting such information but excluding information which:
 - a) is publicly available at the time of its disclosure or becomes publicly available (other than as a result of disclosure by the Receiving Party or any of its Agents contrary to the terms of this Agreement); or
 - b) was lawfully in the possession of the Receiving Party or its Agents (as can be demonstrated by its written records or other reasonable evidence) free of any restriction as to its use or disclosure prior to its being so disclosed; or
 - c) following such disclosure, becomes available to the Receiving Party or its Agents (as can be demonstrated by its written records or other reasonable evidence) from a source other than the Disclosing Party or its Agents, which source is not bound by any duty of confidentiality owed, directly or indirectly, to the Disclosing Party in relation to such information;
- 1.4 **Group** means any subsidiary, any holding company and any subsidiary of any holding company of either party; and
- 1.5 **Information** means all information in whatever form including, without limitation, any information relating to systems, operations, plans, intentions, market opportunities, know-how, trade secrets and business affairs whether in writing, conveyed orally or by computer-readable medium.

2 CONFIDENTIAL INFORMATION

- 2.1 All Confidential Information given by one party to this Agreement (the **Disclosing Party**) to the other party (the **Receiving Party**) will be treated by the Receiving Party as secret and confidential and such Receiving Party will not, without the Disclosing Party's written consent, directly or indirectly communicate or disclose (whether in writing or orally or in any other manner) Confidential Information to any other person other than in accordance with the terms of this Agreement.
- 2.2 The Receiving Party will only use the Confidential Information for the sole purpose of technical and commercial discussions between the parties in relation to the Bid or for the subsequent performance of any contract between the parties in relation to the Bid.
- 2.3 Notwithstanding clause 2.1 above, the Receiving Party may disclose Confidential Information:
- a) to those of its Agents who strictly need to know the Confidential Information for the sole purpose set out in clause 2.2 above, provided that the Receiving Party shall ensure that such Agents are made aware prior to the disclosure of any part of the Confidential Information that the same is confidential and that they owe a duty of confidence to the Disclosing Party. The Receiving Party shall at all times remain liable for any actions of such Agents that would constitute a breach of this Agreement; or
 - b) to the extent required by law or the rules of any applicable regulatory authority, subject to clause 2.4 below.
- 2.4 In the event that the Receiving Party is required to disclose any Confidential Information in accordance with clause 2.3b) above, it shall promptly notify the Disclosing Party and cooperate with the Disclosing Party regarding the form, nature, content and purpose of such disclosure or any action which the Disclosing Party may reasonably take to challenge the validity of such requirement.
- 2.5 In the event that any Confidential Information shall be copied, disclosed or used otherwise than as permitted under this Agreement then, upon becoming aware of the same, without prejudice to any rights or remedies of the Disclosing Party, the Receiving Party shall as soon as practicable notify the Disclosing Party of such event and if requested take such steps (including the institution of legal proceedings) as shall be necessary to remedy (if capable of remedy) the default and/or to prevent further unauthorised copying, disclosure or use.
- 2.6 All Confidential Information shall remain the property of the Disclosing Party and its disclosure shall not confer on the Receiving Party any rights, including intellectual property rights over the Confidential Information whatsoever, beyond those contained in this Agreement.

3 RECORDS AND RETURN OF INFORMATION

- 3.1 The Receiving Party agrees to ensure proper and secure storage of all Information and any copies thereof.
- 3.2 The Receiving Party shall keep a written record, to be supplied to the Disclosing Party upon request, of the Confidential Information provided and any copies made thereof and, so far as is reasonably practicable, of the location of such Confidential Information and any copies thereof.
- 3.3 The Company shall, within 7 (seven) days of receipt of a written demand from Transnet:
- a) return all written Confidential Information (including all copies); and
 - b) expunge or destroy any Confidential Information from any computer, word processor or other device whatsoever into which it was copied, read or programmed by the Company or on its behalf.
- 3.4 The Company shall on request supply a certificate signed by a director as to its full compliance with the requirements of clause 3.3b) above.

4 ANNOUNCEMENTS

- 4.1 Neither party will make or permit to be made any announcement or disclosure of its prospective interest in the Bid without the prior written consent of the other party.
- 4.2 Neither party shall make use of the other party's name or any information acquired through its dealings with the other party for publicity or marketing purposes without the prior written consent of the other party.

5 DURATION

The obligations of each party and its Agents under this Agreement shall survive the termination of any discussions or negotiations between the parties regarding the Bid and continue thereafter for a period of 5 (five) years.

6 PRINCIPAL

Each party confirms that it is acting as principal and not as nominee, agent or broker for any other person and that it will be responsible for any costs incurred by it or its advisers in considering or pursuing the Bid and in complying with the terms of this Agreement.

7 ADEQUACY OF DAMAGES

Nothing contained in this Agreement shall be construed as prohibiting the Disclosing Party from pursuing any other remedies available to it, either at law or in equity, for any such threatened or actual breach of this Agreement, including specific performance, recovery of damages or otherwise.

8 PRIVACY AND DATA PROTECTION

8.1 The Receiving Party undertakes to comply with South Africa's general privacy protection in terms of the Bill of Rights (Section 14) in connection with this Bid and shall procure that its personnel shall observe the provisions of such Act (as applicable) or any amendments and re-enactments thereof and any regulations made pursuant thereto.

8.2 The Receiving Party warrants that it and its Agents have the appropriate technical and organisational measures in place against unauthorised or unlawful processing of data relating to the Bid and against accidental loss or destruction of, or damage to such data held or processed by them.

9 GENERAL

9.1 Neither party may assign the benefit of this Agreement, or any interest hereunder, except with the prior written consent of the other, save that Transnet may assign this Agreement at any time to any member of the Transnet Group.

9.2 No failure or delay in exercising any right, power or privilege under this Agreement will operate as a waiver of it, nor will any single or partial exercise of it preclude any further exercise or the exercise of any right, power or privilege under this Agreement or otherwise.

9.3 The provisions of this Agreement shall be severable in the event that any of its provisions are held by a court of competent jurisdiction or other applicable authority to be invalid, void or otherwise unenforceable, and the remaining provisions shall remain enforceable to the fullest extent permitted by law.

9.4 This Agreement may only be modified by a written agreement duly signed by persons authorised on behalf of each party.

9.5 Nothing in this Agreement shall constitute the creation of a partnership, joint venture or agency between the parties.

9.6 This Agreement will be governed by and construed in accordance with South African law and the parties irrevocably submit to the exclusive jurisdiction of the South African courts.

WITNESSES:

1. _____

2. _____

SIGNATURE(S) OF BIDDER(S)

DATE: _____

B-BBEE PREFERENCE POINTS CLAIM FORM

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

1. INTRODUCTION

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

2. GENERAL DEFINITIONS

- 2.1 "all applicable taxes" include value-added tax, pay as you earn, income tax, unemployment insurance fund contributions and skills development levies;
- 2.2 "B-BBEE" means broad-based black economic empowerment as defined in section 1 of the Broad-Based Black Economic Empowerment Act;
- 2.3 "B-BBEE status of contributor" means the B-BBEE status received by a measured entity based on its overall performance using the relevant scorecard contained in the Codes of Good Practice on Black Economic Empowerment, issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act;
- 2.4 "Bid" means a written offer in a prescribed or stipulated form in response to an invitation by Transnet for the provision of goods, works or services;
- 2.5 "Broad-Based Black Economic Empowerment Act" means the Broad-Based Black Economic Empowerment Act, 2003 [Act No. 53 of 2003];
- 2.6 "comparative price" means the price after the factors of a non-firm price and all unconditional discounts that can be utilised have been taken into consideration;
- 2.7 "consortium or joint venture" means an association of persons for the purpose of combining their expertise, property, capital, efforts, skills and knowledge in an activity for the execution of a contract;
- 2.8 "contract" means the agreement that results from the acceptance of a bid by Transnet;
- 2.9 "EME" means any enterprise with an annual total revenue of R5 [five] million or less;
- 2.10 "firm price" means the price that is only subject to adjustments in accordance with the actual increase or decrease resulting from the change, imposition, or abolition of customs and excise duty and any other duty, levy, or tax, which, in terms of the law or regulation, is binding on the contractor and demonstrably has an influence on the price of any supplies, or the rendering costs of any service, for the execution of the contract;
- 2.11 "functionality" means the measurement according to predetermined norms, as set out in the bid documents, of a service or commodity that is designed to be practical and useful, working or operating, taking into account, among other factors, the quality, reliability, viability and durability of a service and the technical capacity and ability of a bidder;
- 2.12 "non-firm prices" means all prices other than "firm" prices;
- 2.13 "person" includes reference to a juristic person;

- 2.14 **"rand value"** means the total estimated value of a contract in South African currency, calculated at the time of bid invitations, and includes all applicable taxes and excise duties;
- 2.15 **"subcontract"** means the primary contractor's assigning or leasing or making out work to, or employing another person to support such primary contractor in the execution of part of a project in terms of the contract;
- 2.16 **"total revenue"** bears the same meaning assigned to this expression in the Codes of Good Practice on Black Economic Empowerment, issued in terms of section 9(1) of the Broad-Based Black Empowerment Act and promulgated in the Government Gazette on 9 February 2007;
- 2.17 **"trust"** means the arrangement through which the property of one person is made over or bequeathed to a trustee to administer such property for the benefit of another person; and
- 2.18 **"trustee"** means any person, including the founder of a trust, to whom property is bequeathed in order for such property to be administered for the benefit of another person.

3. ADJUDICATION USING A POINT SYSTEM

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

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

- 4.1 In terms of Regulation 5(2) and 6(2) of the Preferential Procurement Regulations, 2011, preference points shall be awarded to a Bidder for attaining the B-BBEE status level of contribution in accordance with the table below:

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

Note: Refer to Section 1 of the RFP document for further information in terms of B-BBEE ratings.

- 4.2 Bidders who qualify as EMEs in terms of the B-BBEE Act must submit a certificate issued by an Accounting Officer as contemplated in the CCA or a Verification Agency accredited by SANAS or a Registered Auditor. Registered auditors do not need to meet the prerequisite for IRBA's approval for the purpose of conducting verification and issuing EME's with B-BBEE Status Level Certificates.
- 4.3 Bidders other than EMEs must submit their original and valid B-BBEE status level verification

- certificate or a certified copy thereof, substantiating their B-BBEE rating issued by a Registered Auditor approved by IRBA or a Verification Agency accredited by SANAS.
- 4.4 A trust, consortium or joint venture will qualify for points for its B-BBEE status level as a legal entity, provided that the entity submits its B-BBEE status level certificate.
- 4.5 A trust, consortium or joint venture will qualify for points for their B-BBEE status level as an unincorporated entity, provided that the entity submits their consolidated B-BBEE scorecard as if they were a group structure and that such a consolidated B-BBEE scorecard is prepared for every separate bid.
- 4.6 Tertiary institutions and public entities will be required to submit their B-BBEE status level certificates in terms of the specialised scorecard contained in the B-BBEE Codes of Good Practice.
- 4.7 A person will not be awarded points for B-BBEE status level if it is indicated in the Bid documents that such a Bidder intends subcontracting more than 25% [twenty-five per cent] of the value of the contract to any other enterprise that does not qualify for at least the same number of points that such a Bidder qualifies for, unless the intended subcontractor is an EME that has the capability and ability to execute the subcontract.
- 4.8 A person awarded a contract may not subcontract more than 25% [twenty-five per cent] of the value of the contract to any other enterprise that does not have an equal or higher B-BBEE status level than the person concerned, unless the contract is subcontracted to an EME that has the capability and ability to execute the subcontract.

5. B-BBEE STATUS AND SUBCONTRACTING

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

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

Note: Points claimed in respect of this paragraph 5.1 must be in accordance with the table reflected in paragraph 4.1 above and must be substantiated by means of a B-BBEE certificate issued by a Verification Agency accredited by SANAS or a Registered Auditor approved by IRBA or an Accounting Officer as contemplated in the Close Corporation Act.

5.2 Subcontracting:

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

If YES, indicate:

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

5.3 Declaration with regard to Company/Firm

- (i) Name of Company/Firm.....
- (ii) VAT registration number.....
- (iii) Company registration number.....
- (iv) Type of Company / Firm
- ☐ Partnership/Joint Venture/Consortium
- ☐ One person business/sole propriety
- ☐ Close Corporations
- ☐ Company (Pty) Ltd
- [TICK APPLICABLE BOX]

- (v) Describe Principal Business Activities

- (vi) Company Classification

- ☐ Manufacturer
☐ Supplier
☐ Professional Service Provider
☐ Other Service Providers, e.g Transporter, etc
[TICK APPLICABLE BOX]

(vii) Total number of years the company/firm has been in business.....

BID DECLARATION

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

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

WITNESSES:

1. _____
SIGNATURE(S) OF BIDDER(S)
2. _____
DATE: _____

COMPANY NAME: _____

ADDRESS: _____

CERTIFICATE OF ACQUAINTANCE WITH RFP DOCUMENTS

NAME OF ENTITY:

1. I/we

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

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

3. I/we understand that the accompanying Bid will be disqualified if this Certificate is found not to be true and complete in every respect.

4. For the purposes of this Certificate and the accompanying Bid, I/we understand that the word "competitor" shall include any individual or organisation, other than the Bidder, whether or not affiliated with the Bidder, who:

- a) has been requested to submit a Bid in response to this Bid invitation;
- b) could potentially submit a Bid in response to this Bid invitation, based on their qualifications, abilities or experience; and
- c) provides the same Services as the Bidder and/or is in the same line of business as the Bidder

5. The Bidder has arrived at the accompanying Bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However communication between partners in a joint venture or consortium will not be construed as collusive bidding.

6. In particular, without limiting the generality of paragraph 5 above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:

- a) prices;
- b) geographical area where Services will be rendered [market allocation]
- c) methods, factors or formulas used to calculate prices;
- d) the intention or decision to submit or not to submit, a Bid;
- e) the submission of a Bid which does not meet the specifications and conditions of the RFP; or
- f) bidding with the intention of not winning the Bid.

7. In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications and conditions or delivery particulars of the Services to which this RFP relates.

8. The terms of the accompanying Bid have not been, and will not be, disclosed by the Bidder, directly or indirectly, to any competitor, prior to the date and time of the official Bid opening or of the awarding of the contract.

9. I/We am/are aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, Bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and/or may be reported to the National Prosecuting Authority [NPA] for criminal investigation and/or may be restricted from conducting business with the public sector for a period not exceeding 10 [ten] years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

SIGNED at _____ on this _____ day of _____ 20____

SIGNATURE OF WITNESS

SIGNATURE OF RESPONDENT

BREACH OF LAW FORM

NAME OF ENTITY: _____

I/We _____

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

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

NATURE OF BREACH:

DATE OF BREACH: _____

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

SIGNED at _____ on this _____ day of _____ 20____

SIGNATURE OF WITNESS

SIGNATURE OF RESPONDENT

RFP No: CRAC-VEG-11816

TO: Transnet SOC Ltd

ATTENTION: The Secretariat, Transnet Freight Rail Acquisition Council [**TFRAC**]

EMAIL Prudence.nkabinde@transnet.net

DATE: _____

FROM: _____

11/11/2019

[illegible]

SIGNED at _____ on this _____ day of _____ 20____

SIGNATURE OF RESPONDENT

SUPPLIER CODE OF CONDUCT

Transnet aims to achieve the best value for money when buying or selling goods and obtaining services. This however must be done in an open and fair manner that supports and drives a competitive economy. Underpinning our process are several acts and policies that any supplier dealing with Transnet must understand and support. These are:

- The Transnet Supply Chain Policy
- Section 217 of the Constitution - the five pillars of Public PSCM [Procurement and Supply Chain Management]: fairness, equity, transparency, competitiveness and cost effectiveness;
- The Public Finance Management Act [PFMA];
- The Preferential Procurement Policy Framework Act [PPPFA];
- The Broad-Based Black Economic Empowerment Act [B-BBEE]; and
- The Prevention and Combating of Corrupt Activities Act.

This Code of Conduct has been included in this RFP to formally apprise prospective Transnet Suppliers of Transnet's expectations regarding the behaviour and conduct of its Suppliers.

Prohibition of bribes, kickbacks, unlawful payments, and other corrupt practices

Transnet is in the process of transforming itself into a self-sustaining State Owned Company [SOC], actively competing in the logistics industry. Our aim is to become a world class, profitable, logistics organisation. As such, our transformation is focused on adopting a performance culture and to adopt behaviours that will enable this transformation.

a) *Transnet will not participate in corrupt practices and therefore expects its Suppliers to act in a similar manner.*

- Transnet and its employees will follow the laws of this country and keep accurate business records that reflect actual transactions and payments to our Suppliers.
- Employees must not accept or request money or anything of value, directly or indirectly, to:
 - illegally influence their judgement or conduct or to ensure the desired outcome of a sourcing activity;
 - win or retain business or to influence any act or decision of any decision stakeholders involved in sourcing decisions; or
 - gain an improper advantage.
- There may be an occasion when a Supplier is confronted with fraudulent or corrupt behaviour by a Transnet employee. We expect our Suppliers to use our "Tip-offs Anonymous" Hot line to report these acts [0800 003 056].

b) Transnet is firmly committed to the ideas of free and competitive enterprise.

- Suppliers are expected to comply with all applicable laws and regulations regarding fair competition and antitrust.
- Transnet does not engage with non-value adding agents or representatives solely for the purpose of increasing B-BBEE spend [fronting].

c) Transnet's relationship with Suppliers requires us to clearly define requirements, exchange information and share mutual benefits.

- Generally, Suppliers have their own business standards and regulations. Although Transnet cannot control the actions of our Suppliers, we will not tolerate any illegal activities. These include, but are not limited to:
 - misrepresentation of their product [e.g. origin of manufacture, specifications, intellectual property rights];
 - collusion;
 - failure to disclose accurate information required during the sourcing activity [e.g. ownership, financial situation, B-BBEE status];
 - corrupt activities listed above; and
 - harassment, intimidation or other aggressive actions towards Transnet employees.
- Suppliers must be evaluated and approved before any materials, components, products or services are purchased from them. Rigorous due diligence is conducted and the Supplier is expected to participate in an honest and straight forward manner.
- Suppliers must record and report facts accurately, honestly and objectively. Financial records must be accurate in all material respects.

Conflicts of interest

A conflict of interest arises when personal interests or activities influence [or appear to influence] the ability to act in the best interests of Transnet. Examples include, but are not limited to:

- Transnet employees awarding business to entities in which their family members or business associates have an interest
- Transnet employees having a financial interest in a bidding entity

Bidding entities are required to disclose any interest/s which exist between themselves and any employee and/or Transnet Board member.

SIGNED at _____ on this _____ day of _____ 20__

SIGNATURE OF WITNESS

SIGNATURE OF RESPONDENT

7TRANSNET SOC LTD / CONTRACTORS / SUB-CONTRACTORS

CONTRACTUAL SAFETY CLAUSES WHICH WILL FORM PART OF ANY RESULTING CONTRACT

The parties agree on the following arrangements according to section 37 (2) of the Occupational Health and Safety Act, 1993 (Act 85 of 1993) to ensure compliance by the mandatory with provisions of the Act.

- 1) That the contractor is an "employer" in his own right as defined in section 1 of Act 85 of 1993 and that he must fulfil all his obligations as an employer in terms of the Act.
- 2) The contractor shall comply with the requirements of Act 85 of 1993 in its entirety.
- 3) Where special permits are required, such as electrical switching, hot work permits, etc. the contractor shall obtain them from a person designated by Transnet SOC Ltd for this purpose, and all requirements of the contractor must rigidly comply with the permit.
- 4) The contractor shall conduct a risk assessment of the work to be performed by a competent person prior to the commencement of work, to identify risks and hazards that persons may be exposed to, analyse and evaluate identified hazards.
- 5) The contractor shall have a documented Health and Safety Plan based on the risks and hazards identified before commencement of work.
- 6) The Health and Safety Plan shall include the following:
 - 6.1 The safety management structure to be instituted with all appointments in terms of the Act and Regulations
 - 6.2 The safe working methods and procedures to be implemented to ensure work are performed in compliance to the Act.
 - 6.3 The safety equipment, devices and clothing to be made available by the contractor to his employees.
 - 6.4 The site access control measures pertaining to health and safety to be implemented.
 - 6.5 Control measures for ensuring that the Health and Safety Plan is maintained and monitored for the duration of the contract.
- 7) The contractor shall ensure that all work is performed under the close supervision of a person trained to understand the hazards associated with the work performed and who has authority to ensure that the necessary precautionary measures are implemented.
- 8) The contractor must appoint a Health and Safety Co-ordinator to liaise with Transnet SOC Ltd on matters pertaining to occupational health and safety.
- 9) The appointed Safety Co-ordinator must liaise at least once a week with the* Health and Safety Section / Risk Manager /Occupational Risk Manager of Transnet SOC Ltd.
- 10) The contractor shall furnish the* Health and Safety Section/ Risk Manager/ Occupational Risk Manager of Transnet SOC Ltd immediately with full particulars of any sub-contractor which he may involve in the contract in order that the sub-contractor himself can be made aware of all the clauses in this contract pertaining to health and safety.

- 11) The contractor shall stop any subcontractor from executing work which is not in accordance with the Health and Safety Plan or which poses a threat to health and safety of persons.
- 12) The contractor shall ensure that all his employees and visitors undergoes health and safety induction pertaining to the hazards prevalent, proof of such training must be kept on file.
- 13) In the event where the risk assessment reveals the risk 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.
- 14) The Fall Protection Plan shall include:
 - 14.1 A risk assessment of all work carried out from an elevated position
 - 14.2 Procedures and methods to address all the identified risks per location
 - 14.3 Evaluation of employee's physical and psychological fitness necessary to work at elevated position.
 - 14.4 The training of employees working from an elevated position.
 - 14.5 Procedure addressing the inspection, testing and maintenance of all fall protection equipment.
- 15) The contractor shall advise the * Health and Safety Section / Risk Manager/ Occupational Risk Manager of Transnet SOC Ltd of any hazardous situations which may arise from work being performed either by the contractor or his sub-contractor.
- 16) Copies of all appointments required by the act must be given to * Health and Safety Section / Risk Manager / Occupational Risk Manager of Transnet SOC Ltd.
- 17) The contractor shall ensure that a Health and Safety File is available which shall include all documentation as required by the Act, copy of his and his subcontractors Risk Assessment and Health and Safety Plan.
- 18) All incidents referred to in Section 24 of the Act involving the contractor and his subcontractor on Transnet SOC Ltd premises, shall be reported as prescribed. Transnet SOC Ltd hereby obtains an interest in the issue of any investigation, formal inquiry conducted in terms of Section 31 and 32 of the Act into any incident involving the contractor, his subcontractor, any person or machinery under his control on Transnet SOC Ltd premises.
- 19) No alcohol or any other intoxicating substance shall be allowed on Transnet SOC Ltd premises. The contractor shall not allow anyone under or suspected to be under the influence of alcohol or any other intoxicating substance on Transnet SOC Ltd premises.
- 20) Contractor to ensure its employees undergo medical surveillance as required by legislation
- 21) Contractor will be required to provide monthly safety performance reports and statistics
- 22) A letter of good standing in terms of Section 80 (Employer to register with the Compensation Commissioner) of the Compensation for Occupational Injuries and Disease Act 1993 (Act 130 of 1993) must also be furnished.
- 23) All clauses in the contract pertaining health and safety form an integral part of the contract and if not complied with may be construed as breach of contract.

*As applicable

Tenderer OH & S Management System Questionnaire

This questionnaire forms part of TFR tender evaluation process and is to be completed by all Tenderer's and submitted with their tender offer. The objective of the questionnaire is to provide an overview of the status of the Tenderer's OH&S management system. Tenderers will be required to verify their responses noted in their questionnaire by providing evidence of their ability and capacity in relevant matters. **TFR will verify accuracy of this information during the physical visit as part of the tender evaluation.**

The information provided in this questionnaire is an accurate summary of the company's occupational health and safety management system.		
Company Name:		
Signed:	Name:	
Position:	Date:	
Tender Description:		
Tender Number:		
Tenderer OH&S Management System Questionnaire	Yes	No
1. OH&S Policy and Management		
- <i>Is there a written company health and safety policy?</i> - If yes provide a copy of the policy		
- <i>Does the company have an OH&S Management system e.g NOSA, OHSAS, IRCA System etc</i> - If yes provide details		
- <i>Is there a company OH&S Management System, procedures manual or plan?</i> - If yes provide a copy of the content page(s)		
- <i>Are health and safety responsibilities clearly identified for all levels of Management and employees?</i> - If yes provide details		
2. Safe Work Practices and Procedures		
- <i>Are safe operating procedures or specific safety instructions relevant to its operations available?</i> - If yes provide a summary listing of procedures or instructions		
- <i>Is there a register of injury document?</i> If yes provide a copy		
- <i>Are Risk Assessments conducted and appropriate techniques used?</i> - If yes provide details		

3. OH&S Training		
Describe briefly how health and safety training is conducted in your company:		
<ul style="list-style-type: none"> - Is a record maintained of all training and induction programs undertaken for employees in your company? - If yes provide examples of safety training records 		
4. Health and Safety Workplace Inspection		
<ul style="list-style-type: none"> - Are regular health and safety inspections at worksites undertaken? - If yes provide details 		
<ul style="list-style-type: none"> - Is there a procedure by which employees can report hazards at workplaces? - If yes provide details 		
5. Health and Safety Consultation		
<ul style="list-style-type: none"> - Is there a workplace health and safety committee? 		
<ul style="list-style-type: none"> - Are employees involved in decision making over OH&S matters? - If yes provide details 		
<ul style="list-style-type: none"> - Are there employee elected health and safety representatives? - Comments 		
6. OH&S Performance Monitoring		
<ul style="list-style-type: none"> - Is there a system for recording and analysing health and safety performance statistics including injuries and incidents? - If yes provide details 		
<ul style="list-style-type: none"> - Are employees regularly provided with information on company health and safety performance? - If yes provide details 		
<ul style="list-style-type: none"> - Is company registered with workmen's compensation and up to date? - If yes provide proof of letter of good standing 		
<ul style="list-style-type: none"> - Has the company ever been convicted of an occupational health and safety offence? - If yes provide details 		

Safety Performance Report

Monthly DIFR for previous months

Previous Year	No of Disabling Injuries	Total Number of employees	DIFR per month
January			
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			

DIFR = Number of Disabling injuries x 200000 divided by number of man hours worked for the period

Signed
(Tenderer)

PART C1
AGREEMENT AND CONTRACT DATA

PREVIEW COPY ONLY

Contract Data

The *Employer* is

Name Transnet SOC Ltd trading as Transnet Freight Rail
Address 49th Floor Carlton Centre, 150 Commissioner Street, JHB, 2000
Telephone 011 773 8005..... Fax 011 773 7717
E-mail address Lindani.Langa@transnet.net

The *works* are Construction of a secure brick and mortar building with a flat concrete roof..

The *site* is Corner Stores & Keswick road,Germiston

The *starting date* is as soon as possible

The *completion date* is not later than 4 months after the contract has been concluded

The *period for reply* is 2 weeks.

The *defects date* is 52 weeks after Completion.

The *defect correction period* is 4 weeks.

The *delay damages* are R5,000.00 per day.

The *assessment day* is the Last day of each month.

The *retention* is 100% until completion of the first installation and 10% thereafter

Does the United Kingdom Housing Grants, Construction and
Regeneration Act (1996) apply? No

Contract Data

The interest rate on late payment is **2 (Two) % per annum above the prime lending rate of the Standard Bank Limited** as determined from time to time.

The *Contractor* is not liable to the *Employer* for loss of or damage to the *Employer's*

property in excess of R 25,000.00..... for any one event.

The *Employer* provides this insurance as stated in the insurance policy for contract works and public liability (Principal Controlled Insurance), attached to the tender documents.

The minimum amount of cover for the third insurance stated in the

Insurance Table is To the extent as stated in the insurance policy for contract works and public liability (Principal Controlled Insurance), attached to the tender documents.

The minimum amount of cover for the fourth insurance stated in the

Insurance Table is To the extent as stated in the insurance policy for contract works and public liability (Principal Controlled Insurance), attached to the tender documents.

The *Adjudicator nominating body* is Association of Arbitrators (Southern Africa)

The *tribunal* is Arbitration

If the *tribunal* is arbitration, the arbitration procedure is The Rules for the conduct of Arbitrations issued by the Association of Arbitrators (Southern Africa) by an Arbitrator to be mutually agreed by the Parties, and failing agreement to be appointed by the Association of Arbitrators.

The *conditions of contract* are the NEC3 Engineering and Construction Short Contract (June 2005) and the following additional conditions

1. PERSONNEL REQUIREMENTS

- 1.1. The *Contractor* must confirm that an Engineer, fully conversant with the current practices relating to railbound measuring systems in South Africa is in on the *Contractor's* establishment and will be involved in the contract when required. The name and qualifications of the Engineer at the date of submission of the tender must be stated by the *Contractor*.
- 1.2. The *Contractor's* project manager for the project shall have experience in railway measuring systems and shall be fully conversant with the current practices relating to railbound measuring systems in South Africa. The names and qualifications of the project manager together with full details of his experience in this field of work, must be furnished.
- 1.3. The *Contractor* shall have suitably qualified supervisors in charge of this project. The names and qualifications of the supervisors together with full details of their experience in this field of work, must be furnished. All supervisory staff shall be in direct employment of either the *Contractor* or his sub-contractor, subject to the sub-contractor being an approved *Contractor* for the relevant type of work.
- 1.4. The *Contractor* must note that any member of Transnet's personnel associated with this project is responsible for inspection only and will not render any assistance, except at the instruction of the Employer.
- 1.5. If a portion of the contract work covered by the specifications will be done on existing assets, personnel of Transnet will supervise such work. The prevention of faults on existing equipment is essential.

2. REPORTS ON FAULTS AND FAILURES

- 2.1. The *Contractor* shall inform the Employer of the names and addresses and telephone numbers of his personnel to be called in emergencies. The *Contractor* will be responsible for seeing that one or more members of his personnel are available on call at all times to receive fault or failure reports.

- 2.2. Members of the *Contractor's* personnel shall, while on call, keep the duty personnel in the Employers Control Office informed of their movements in order that they may be contacted without delay in case of an emergency.
- 2.3. The *Contractor* shall keep the Employer and the duty personnel of the Control Office informed of the names of members of his personnel who will be available to receive calls during specific periods.
- 2.4. The *Contractor* will be held responsible and accountable for any delays to the train service that he may cause during the contract period.

3. SAFETY REGULATIONS

3.1. High voltage electrical equipment

- 3.1.1. All works shall be carried out in terms of the E7/1 Specification.
- 3.1.2. The attention of the *Contractor* is drawn to the possibility of "live" electrical overhead wires or underground cables existing in the area covered by this contract and the danger of coming in contact with such wires or piercing underground electrical cable, during excavations.
- 3.1.3. When doing installations or working on existing equipment in the vicinity of high voltage equipment, the *Contractor* must take the necessary precautionary measures to safeguard his personnel against injury. The *Contractor* must consider all equipment as "live", notwithstanding any safety measures introduced into the system to reduce induced stray voltages to a safe level.
- 3.1.4. All personnel under the control of the *Contractor* must be made aware of the danger of "live" electrical wires and cables as well as induced stray voltages into cables and equipment before a commencement is made with the work.
- 3.1.5. During installation all safety measures prescribed by the Machinery And Occupational Health and Safety Act, 1993 associated with working on a project of this nature shall be adhered to and particular attention shall be given to the storage of inflammable materials and the use of naked flames or other fire hazard operations.
- 3.1.6. Special care shall be exercised when welding or flame cutting operations occur and *Contractors* are required to provide suitable fire fighting equipment at close hand to these operations.
- 3.1.7. For the application of the Occupational Health and Safety Act, 1993 the site and works shall be deemed to be under the *Contractor's* control for the duration of the contract and any subsequent maintenance period during which work is taking place. The *Contractor* shall be regarded as the employer and shall be responsible for ensuring that the requirements of the Act and the regulations are implemented on the work site.
- 3.1.8. Where referred to "Machinery and Occupational Safety Act 1983 (Act 6 of 1983)" in any specification or condition, forming part of this tender/contract, it must be replaced by "Occupational Health and Safety Act 1993 (Act 85 of 1993)".
- 3.1.9. The *Contractor* shall provide the necessary number of suitable first aid outfits, one set in the camp and one set at each working team. He shall maintain these outfits fully equipped at all times.
- 3.2. Access to sites and buildings
- 3.2.1. The *Contractor* will be given access to the various equipment sites and such entry permits and keys as are considered necessary by the Employer.
- 3.2.2. Access to site will generally be via public and/or Transnet service roads. Any additional access required by the *Contractor* to the worksite shall be provided by him at his own cost and removed on completion of the work and re-instated to its original condition. Written approval from the Employer must be obtained before any access is constructed.

3.3. Occupations

3.3.1. Where safety of trains is affected by the work in progress, the Employer will provide personnel to supervise the protection of trains. The *Contractor* must provide protection of his personnel where they would be subjected to the danger of passing trains.

3.3.2. The wearing of reflective clothing is compulsory while moving on or near railway lines.

3.4. Damages consequent to the neglect on the part of the *Contractor*

3.4.1. The *Contractor* will be held responsible for costs incurred by the Employer as a result of failure on the part of the *Contractor* or his personnel, to observe the security regulations of Transnet regarding the entry of personnel into all buildings or equipment sites, and such costs will be decided by Transnet.

3.4.2. Repair costs due to damage to Transnet property by the *Contractor* and/or his staff will be for the account of the *Contractor*.

3.5. General

3.5.1. The *Contractor* shall comply with all applicable legislation, regulations issued in terms thereof and Transnet's safety rules which shall be entirely at the *Contractor's* cost, and which shall be deemed to have been allowed for in the tendered rates and prices.

3.5.2. In accordance with the safety case between the Employer and the *Contractor*, the *Contractor* shall, in particular, comply with the following Acts: -

(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.

(2) The Occupational Health and Safety Act, 1993 (Act 85 of 1993) as amended and Regulations issued in terms thereof or unrepealed regulations issued in terms of the former Act no. 6 of 1983, in their entirety. The *Contractor* is, in terms of section 37(2) of Act no. 85, deemed to be an employer in his own right with duties as prescribed in the said Act, and agrees to ensure that all work will be performed, and machinery and plant used, in accordance with the provisions of the said Act in respect of all persons in his employ, other persons on the premises or the site or place of the works or on the works to be executed by him and staff under his control in terms of the contract. According to section 37(2) (Act 85 of 1993) the agreements in this contract and all documents attached or referred to, form an integral part of the arrangements and procedures mentioned in the aforementioned section.

(3) The Explosives Act No. 26 of 1956 (as amended): The *Contractor* shall, when applicable, furnish the Employer with copies of the permits authorising him or his employee to establish an explosives magazine on or near the site, and to undertake blasting operations in compliance with the Act.

3.5.3. The *Contractor* shall report all accidents in writing to the Technical Officer. Any accident 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 accident shall be reported within 48 hours of its occurrence.

3.5.4. For the purpose of the Occupational Health and Safety Act, 1993 (Act 85 of 1993) as amended and Regulations issued in terms thereof or unrepealed regulations issued in terms of the former Act no. 6 of 1983, the site/s, to be demarcated as agreed to between the *Contractor* and the Employer before the works start, will be transferred to the control of the *Contractor* for the duration of the contract work at each site.

(1) Registration of the site with the Occupational Health and Safety Act No. 85 of 1993 (Act 85 of 1993) must be done by the *Contractor* in consultation with the Employer or his authorised delegate on behalf of Transnet.

- (2) Should the *Contractor* occupy a site under the control of Transnet, he shall not be responsible for the safe working method of Transnet. The representative appointed by Transnet shall nevertheless attend all site safety meetings called for in terms of this Act.
 - (3) The representative must hand in copies of the minutes of these meetings to the Employer. These meetings will be monitored and should action be required the necessary steps will be taken to rectify the problems.
 - (4) Copies of the agreement between the *Contractor* as Employer and his employees as envisaged by Section 37(2) of the Occupational Health And Safety Act No. 85 of 1993. (Act 85 of 1993) must be supplied by the successful *Contractor* before work commences.
 - (5) The *Contractor* must provide a safety case as an agreement or promise by one party using or operating on the assets of the other party.
- 3.5.5. All clauses in this contract pertaining to health and safety form an integral part of this contract and if not complied with may be construed as breach of contract entitling the Employer to the appropriate remedies.
- 3.5.6. Refer to Specification E.4E: Safety Arrangements and Procedural Compliance with the Occupational Health & Safety Act No 85 of 1993 bound into the tender document. *Contractors* must allow in their tender rates and prices for adherence to the laid down procedure. Non-compliance with the procedure will be construed as a breach of contract.
- 3.5.7. The *Contractor* shall comply with the specification for Works on, over, under or adjacent to railway lines and near high voltage equipment -E7/1 (April1991), if included in the contract. He shall also comply with all other safety rules, regulations and guidelines of Transnet applicable to the nature of Works carried out under the contract, and shall obtain the particulars thereof from the Employer.
- 3.5.8. The *Contractor* shall indemnify Transnet against any claims or damages arising out of the *Contractor's* non compliance with the provisions of this clause 4.5.

4. SECURITY

- 4.1. The *Contractor* shall be responsible for providing security on site for his personnel, plant and material. Deployment of security personnel shall be arranged in consultation with the Technical Officer subject to the applicable Transnet regulations.
- 4.2. In terms of clause 12(1)(a) Annexure 1 of the SATS Legal Succession Act (Act No. 9 of 1989), a special permit is required by any person carrying a firearm on premises owned or controlled by Transnet or the South African Rail Commuter Corporation.

5. PLANS AND DOCUMENTS: OWNERSHIP, COPYRIGHT AND STANDARDS

- 5.1. The *Contractor* hereby grants to Transnet a nonexclusive licence, in accordance with the provisions of section 22 of the Copyright Act 1978,
- (1) to copy any document/calculation compiled/done by the *Contractor* in connection with the WORKS,
 - (2) to make free and unrestricted use thereof for its own purposes, modify some or having it modified by a third party for any reasons,
 - (3) to provide copies thereof to a third party (*Contractors* or consultants) of Transnet to be used by them for the purposes of tendering or consultancy.
- 5.2. Subject to the provisions of clauses 1.46 to 1.49 of the Works Information, the *Contractor*, furthermore, if any such document/calculation by any principal or subcontractor of the *Contractor*, is used in connection with the Works, shall cause such principal or subcontractor to grant to Transnet a similar nonexclusive licence for the purposes set out herein. The provisions of this clause shall not apply to documents made, in the case of equipment to be supplied, in connection with the manufacturing process of the equipment supplied but only to the equipment supplied itself.

- 5.3. No separate or extra payment shall be due by Transnet in respect of any non-exclusive licence granted in terms of this clause.
- 5.4. All documents generated or supplied on this contract shall comply with Spoornet specification CSE-1159-001, category X48, issue 1 (March 1994).

6. INSURANCE COVER

- 6.1. Transnet SOC Ltd will effect and pay for insurance cover as stated in the insurance policy for contract works and public liability (Principal Controlled Insurance), attached to the tender documents.
- 6.2. The terms of the "Principal Controlled Insurance Policy" is negotiated by Transnet each year, therefore, the conditions of the policy embodied in this tender enquiry/contract is valid only for the period as stated in the policy. In the event of an occurrence that may arise during the course of a contract the rates/conditions of the latest policy i.e. applicable at date of occurrence, shall apply.

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Contract Data

The *Contractor's* Offer

The *Contractor* is

Name

Address

Telephone Fax

E-mail address

The percentage for overheads and profit added to the Defined Cost for people is %.

The percentage for overheads and profit added to other Defined Cost is %.

The *Contractor* offers to Provide the Works in accordance with the *conditions of contract* for an amount to be determined in accordance with the *conditions of contract*.

The offered total of the
Prices is

Enter the total of the Prices from the Price List.

Signed on behalf of the *Contractor*

Name

Position

Signature Date

The *Employer's* Acceptance

The *Employer* accepts the *Contractor's* Offer to Provide the Works

Signed on behalf of the *Employer*

Name

Position

Signature Date

Contract Data Pricing Instructions

1. *Contractors* shall provide separate schedules to at least the level of detail below:

1.1 Material

- (1) Enclosure
- (2) Equipment cabinets
- (3) Computers/processors
- (4) Electronic cards
- (5) Tag readers
- (6) Load sensors
- (7) Power cable
- (8) Instrumentation cable
- (9) UPS
- (10) Earthing
- (11) Lightning & surge protection
- (12) Software
- (13) GPRS modem
- (14) Recommended spares for maintenance.
- (15) All other material.

1.2 Labour

- (1) Installation. Unit labour rates for each material group must be shown separately.
- (2) Trenching, troughing and cable laying. Unit material and labour rates must be shown separately.
- (3) Day work rates. Hourly rates for each grade, km rate and hourly rate for plant and equipment must be shown separately.

1.3 Software

1.4 Drawings

1.5 Documentation

1.6 Training

1.7 Testing and commissioning.

1.8 Recommended spares (option)

1.9 Recommended test equipment (option)

1.10 Training (option)

If the *Contractor* is to be paid an amount for the item of work which is the rate for the work multiplied by the quantity completed, the Tenderer enters the rate which is then multiplied by the expected quantity to produce the Price, which is also entered.

[illegible]

Contract Data

Works Information

1. Description of the works

Scope

- 1.1. The contract comprises the planning, supply, installation and commissioning of 2 in-motion weighbridges of which one will be installed at City Deep and one at Kings Rest.
- 1.2. The weighbridge comprises a site installation on the permanent way complete with trenching, cabling, equipment enclosures, lightning and surge protection and all other necessary equipment.

Performance

- 1.3. The weighbridge shall be able to automatically (i.e. without an operator present) weigh individual wagons whilst in motion, at an accuracy of OIML class 2, initial verification accuracy, as specified in regulation R106-1 of 1997 (or latest). Under this can be understood that during in-motion tests with a test train, the maximum permissible error on 90% of the number of wagons on the test train during any test run is 1%. The maximum permissible error for the remaining wagons, which may not exceed 10% of the total amount of wagons in the test train, is 2%. This accuracy is applicable for speeds from just in motion up to the maximum operating speed on the specific site.
- 1.4. The weighbridge shall comply with Spoornet specification No. BBC7593 with the exception that accuracy that meets the SABS requirements for commercial in-motion weighing as stated in paragraph 5.1.1 will not be required.
- 1.5. The *Contractor* shall state all known constraints to the effective operation of their weighbridge not otherwise covered in this and associated specifications.

Communication

- 1.6. The weighbridge shall include a GPRS modem to communicate its data as specified in BBC7593 to the ITCMS at the control office.
- 1.7. The *Contractor* shall provide detail on the protocol for and content of communication between the weighbridge and the ITCMS, within the constraints of specification BBC7593.

Calibration

- 1.8. The weighbridge shall be calibrated on commissioning and maintain the specified accuracy for a minimum period of at least 12 months unless the ballast has been disturbed (e.g. by a ballast tamper or sifting machine).

Enclosure

- 1.9. The *Contractor* shall supply a suitable enclosure to contain the equipment (excluding the rail-mounted equipment). The enclosure shall preferably be a concrete cubicle (similar to the Rocla cubicles used for signalling equipment between Mount Vernon and Cato Ridge).
- 1.10. The enclosure shall be weatherproof and resistant to vandalism, fire and corrosion. It shall be erected or placed at a level higher than the surrounding area in a manner which minimises the possibility of flooding as a result of rain, hail or snow. It shall be equipped with a sturdy lockable door (lockable at top, bottom and middle), adequate ventilation (with or without extractor fan) and adequate measures to prevent ingress of birds and rodents. The standard IP rating shall be at least IP 56.
- 1.11. If forced ventilation is required, it shall be by means of an extractor fan through dust filters.
- 1.12. If the system requires an air-conditioned environment, then a dual air conditioning system and adequate measures to prevent ingress of birds and rodents shall be provided. The air conditioning system must function in such a way that only one unit is working at a time and that automatic switching between the units takes place at preset intervals.
- 1.13. The enclosure shall be equipped with a light suitable for maintenance purposes and with a 15A power socket.

1.14. The enclosure shall have enough space to allow access to all parts of the equipment necessary for maintenance. Adequate space shall be made available for communication equipment, e.g. a modem and/or flexmux.

1.15. The *Contractor* shall provide an electrical Certificate of Compliance for each enclosure.

Power supply

1.16. The incoming power supply will be single phase only with nominal voltage 230V at 50Hz. This will not be an uninterruptible supply.

1.17. The voltage fluctuation which can be expected ranges from +8% to -23% from nominal. Total harmonic distortion of up to 40% can be expected, as indicated in Appendix B.

1.18. All equipment directly connected to the external supply or susceptible to transients originating from the external supply shall be capable of operating normally without suffering damage with the supply as specified.

1.19. The *Contractor* shall supply and install the power supply cable from the designated termination point at the H-mast, switching structure or termination cabinet provided by Transnet Freight Rail to the enclosure. In DC electrified areas the screen of the power cable shall not be connected to the switching structure or termination cabinet, but shall be isolated from it by means of an approved "block joint". Any conductive protection pipe for the cable shall also be isolated from the structure. Refer to the schematic diagram of a typical power supply step-down point in Appendix A.

1.20. In addition to the lightning protection required for the AWIMS in terms of specification BBC7593, the *Contractor* shall provide adequate lightning protection on the incoming power supply.

1.21. The *Contractor* shall supply a suitable uninterruptible power supply (UPS). The UPS shall utilise a true online topology i.e. connected loads are isolated from irregularities of the main supply without interruption and are supplied from the UPS. The UPS shall have a battery standby period of at least 4 hours at full load.

1.22. The quality of UPS output will be in accordance with South African Bureau of Standards publication No. NRS 048-2:1996 ("Electricity Supply – Quality of Supply") Part 2. Note that the quoted SABS publication is not attached to the specification. *Contractors* are expected to source their copy from the SABS.

1.23. The *Contractor* shall specify in his tender the total power rating required at each site. This rating shall include provision for illumination and for tools and instruments required during maintenance and calibration.

Installation

1.24. The *Contractor* shall be responsible for the entire installation, including the enclosure, power equipment, cables, sensors, etc. Clearing of the site and earthworks (where required) at the site shall be done or arranged by the *Contractor* and shall be included in the contract.

1.25. The installation shall comply with the standards specified in specification CSE-504/7.

1.26. Installation shall be according to the approved drawings, applicable specifications and standards.

1.27. The *Contractor* shall supply all track equipment necessary for the successful functioning and protection of the weighbridge including trackside monitoring equipment, gauges, sensors and protection plates.

1.28. Track equipment must be installed as indicated on the approved equipment layout drawing from the supplier and the site and enclosure layout.

1.29. Trenching and cable laying shall be to Specification CSE-516/1 (January 1985). The Technical Officer must inspect and approve the cable trench before closure. All trench depths must be 800mm and slabbed. Danger tape is to be provided 110 mm above the slabs.

1.30. In the event of the *Contractor* wanting to make use of sub-contractors for cable laying and trenching, these sub-contractors must be nominated from Transnet's approved list. This list is confidential and for information of the main *Contractor* only. The list shall not be distributed to any trenching and cable laying sub-contractor.

- 1.31. The Contractor must provide for all the tail cables, trenching, pipe crossings, jointing, termination and testing of equipment cables. Screened cable shall be used where appropriate.
- 1.32. Cables supplied must conform to equipment specification and industry standards approved by Transnet Freight Rail.
- 1.33. The Contractor must provide sand, stone, cement and GI piping where needed to protect cables.
- 1.34. Cables must be properly secured in hydraulic hosing, cable flex or GI pipes as specified.
- 1.35. All the cabling is to be buried. No cable markers are to be provided.
- 1.36. Cable entry pipes shall be provided for cables entering the enclosure.
- 1.37. Cable termination at track side as well as in the enclosure shall be to industry standards approved by Transnet Freight Rail.

Earthing, lightning and surge protection.

- 1.38. The Contractor shall supply and install earthing and protection in accordance with requirements specified in specification BBB3235.

Testing and commissioning

- 1.39. The Contractor shall supply a proposed acceptance test procedure in his tender.
- 1.40. Testing, commissioning and handing over of the works shall be done in accordance with the procedure documented in specification BBB3609.

Maintenance

- 1.41. The Contractor gives the undertaking that all parts, calibration details and any other information and/or items that may be required for the maintenance, calibration and repair of the weighbridge will be made available at ruling market prices to TFR and to repairing or servicing agents in the industry.
- 1.42. The Contractor shall include in his tender the prices of all parts, software, documentation, test equipment and any other items that will be required for the repair and maintenance of the weighbridge under normal as well as abnormal conditions (e.g. direct lightning, derailments, theft and vandalism).
- 1.43. The Contractor shall supply a recommended list of spares and test equipment that will be required to repair and maintain the weighbridge under normal conditions.
- 1.44. The cost for recommended spares and test equipment to be tendered separately with unit rates shall be included in the tender as optional items.
- 1.45. The Contractor must give detail (e.g. tasks and frequencies) of inspections, monitoring actions and services that are required to ensure operational readiness of the weighbridge for at least 98% of the time under normal conditions.

Software

- 1.46. The Contractor must indicate in his tender:
 - 1.46.1. Whether he is the owner of the copyright of the software.
 - 1.46.2. If not the owner, what the nature of the license is in terms of which he operates and provide details of the license terms and conditions.
- 1.47. Notwithstanding whether the Contractor is the owner of copyright or has a valid license he must indicate:
 - 1.47.1. The conditions in terms of which Transnet will be able to use the software;
 - 1.47.2. The nature of the license; and
 - 1.47.3. The cost thereof per annum if applicable.
- 1.48. The Contractor must indicate the maintenance cost of the license and the period.
- 1.49. The Contractor must indicate whether he is willing to conclude an escrow agreement in respect of the source code of the software.

Training

- 1.50. The Contractor will be required to train a minimum number of personnel in the operation, maintenance and faultfinding on all equipment supplied and installed. The training should be completed prior to the testing and commissioning of the installation. This must be agreed to prior to the submission of the tender.
- 1.51. Details of training offered is to be submitted with the tender.
- 1.52. The cost per person, per day and duration of courses to be tendered separately with unit rates shall be included in the tender as an optional item.
- 1.53. The Contractor must be prepared to do further training in the future as and when required at reasonable rates to be negotiated when required.
- 1.54. All courses shall be presented in English. Comprehensive student notes shall be prepared in English and issued to all students attending the courses presented by the Contractor.
- 1.55. (See Pricing Instructions)
- 1.56. Separate schedules shall be provided for each country of origin.
- 1.57. Unit rates and suppliers shall be stated.
- 1.58. The contractor shall quote a firm price (i.e. not subject to escalation) in his tender.
- 1.59. The contractor shall take out forward cover for all imported materials and services within 14 days of award of the contract.
- 1.60. No claims for compensation for foreign exchange fluctuation will be considered other than the forward cover specified in section 1.58.

Compliance statements

- 1.61. Additional to the requirements specified in the Notice to Tenderers, Tenderers shall give a clause by clause comment on whether or not their quotation complies with the Works Information.
- 1.62. A clause by clause statement of compliance must be submitted for specification BBC7593.
- 1.63. For other primary specifications a clause by clause comment is not required. Compliance shall be stated as follows:
 - 1.63.1. Full compliance with the specification shall be indicated with a clear statement stating full compliance with the specification and all relevant requirements of the secondary specifications.
 - 1.63.2. If there is any clause in the primary specification or relevant clause in a secondary specification with which the Tenderer does not comply or on which he wishes to comment, he shall indicate full compliance with the specification and all relevant requirements of the secondary specifications excluding certain clauses. The Tenderer shall then provide a clause by clause comment on every excluded clause.
- 1.64. Separate statements of compliance with secondary specifications are not required, since compliance with the relevant clauses must be integrated in the statement of compliance with the primary specifications.

2 Drawings

- 2.1 The Contractor shall perform a survey of each selected site and prepare a site layout drawing for approval. No installation shall commence before these drawings have been approved.
- 2.2 The Contractor shall prepare installation drawings for approval. No installation shall commence before these drawings have been approved.
- 2.3 The Contractor shall provide detailed as built drawings for each site on completion of the installation.
- 2.4 All drawings shall comply with specification BBB0041.

Contract Data Works Information

3 Specifications

- 3.1 The Contractor must comply with the standards and specifications as listed in Table 1.
- 3.2 The following definitions shall apply in this contract:
- 3.2.1 A "**primary specification**" is a specification or document directly referred to in the Works Information.
- 3.2.2 A "**secondary specification**" is a specification referred to in one or more of the primary specifications or other secondary specifications.
- 3.3 Where "South African Railways and Harbours Administration" or "South African Transport Services" or "Spoornet" or abbreviations thereof appears in any specification, standard or other document referred to in this tender/contract document, it must be read as "Transnet SOC Ltd trading as Transnet Freight Rail".
- 3.4 Wherever the words "Chief Engineer, Signal & Telecommunication" appear in these documents, please treat as void.

Description	Number	Category	Issue/ Version	Date

Table 1 – Standards and specifications for the planning, supply, installation, testing and commissioning of in – motion weighbridges

4 Constraints on how the *Contractor* Provides the Works

- 4.1 The work at City Deep must preferably be completed before the work at Kings Rest begins.
- 4.2 The Contractor shall be responsible for locating and protecting existing services. The position of existing services as shown on drawings is only approximate. Services other than that shown on the drawings may be pointed out to the Contractor and the Contractor shall take responsibility to protect them in the same way as those shown on the drawings. Damage to any service shown on the drawings or pointed out to the Contractor shall immediately be reported to the Employer who will arrange for its repair.
- 4.3 Permission to connect to any existing service, on a temporary basis, must be obtained from the Employer.

5 Requirements for the programme

- 5.1 The contractor must submit in his tender a detailed programme of work, including all stages and clearly indicating milestones. Anticipated delivery of batches of material shall be included.
- 5.2 The program must show at what stage the services and other things (e.g. approval of drawings, site access, occupations, etc.) to be provided by the Employer will be required.
- 5.3 The intended use of the works at completion is to verify the declared mass of container traffic and to raise an alarm when safety limits are exceeded.

6 Services and other things provided by the *Employer*

- 6.1 The following will be provided:
 - 6.1.1 SIM cards for the GPRS modems.
 - 6.1.2 Single phase 220V mains power supply.
 - 6.1.3 Test train for calibration.

Date by which it will be provided

As stated in the program to be provided by the Contractor

Contract Data

Site Information

The site locations are:

1. Corner Stores and Keswick road,Germiston

Contractors are required to visit and examine each site before they tender.

The exact position will be pointed out by the Employer's representative during the site visits.

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SCHEDULE OF DEVIATIONS

Note:

1. To be completed by the Employer prior to award of contract. This part of Contract Data would not be required if the contract has been developed by negotiation between the Parties and is not the result of a process of competitive tendering.
2. The extent of deviations from the tender documents issued by the Employer prior to the tender closing date is limited to those permitted in terms of the Conditions of Tender.
3. A Tenderer's covering letter must not be included in the final contract document. Should any matter in such letter, which constitutes a deviation as aforesaid be the subject of agreement reached during the process of Offer and Acceptance, the outcome of such agreement shall be recorded here and the final draft of the contract documents shall be revised to incorporate the effect of it.
4. Any other matter arising from the process of offer and acceptance either as a confirmation, clarification or change to the tender documents and which it is agreed by the parties become an obligation of the contract, shall also be recorded here.

No.	Subject	Details
1		
2		
3		
4		
5		
6		
7		

By the duly authorised representatives signing the offer and acceptance, the Employer and the Tenderer agree to and accept this Schedule of Deviations as the only deviations from and amendments to the documents listed in the Tender Data and any addenda thereto listed in the Tender Schedules, as well as any confirmation, clarification or changes to the terms of the Offer agreed by the Tenderer and the Employer during this process of Offer and Acceptance.

It is expressly agreed that no other matter whether in writing, oral communication or implied during the period between the issue of the tender documents and the receipt by the Tenderer of a completed signed copy of the Contract shall have any meaning or effect in the contract between the parties arising from this Agreement.

**PART C1.4:
ADJUDICATOR'S CONTRACT DATA**

CONTRACT DATA

- Statements given in all contracts**
- The *contract between the Parties* is **To be advised**.....
 - The *period of retention* is ...**N/A**..... weeks.
 - The *law of the contract* is the law of **the Republic of South Africa**
 - The *language of this contract* is **English**.....
 - The amount of the advanced payment is **N/A**.....
 - The Adjudicator's *fee* is...**To be advised**.....per hour.
 - The *interest rate* is **2%** per annum above the prime lending rate of the **Standard Bank of South Africa Ltd.**
 - The *currency of this contract* is **ZAR**.....
 - The Adjudicator's appointment terminates on **(To be advised)**.....

Optional statements **If the period for payment of invoices is not three weeks**

- The period for payment of invoices is **.four**.....weeks.

If additional conditions of contract are required

- The *additional conditions of contract* are

To be advised

.....

.....

.....

List of Drawings / Specifications

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Occupational Health and Safety Plan

Company name: _____

Project name: _____

Includes Environmental, Occupational Health and Safety and Quality Management (SHEQ)

CONTENT

1. Project Details
2. Policy Statement
3. Objectives
4. Common Vocabulary
5. Legislation
6. Statutory Obligations
7. Project Management
8. Incident Management
9. Logbooks and Registers
10. Risk Management
11. Education and Training
12. Emergency Planning – Evacuation plan
13. Environment
14. Ergonomics
15. Health and Safety Communications
16. Safe working procedures
17. Personal Protective Equipment and Clothing
18. Project security
19. Implementation Costs

Title.

Occupational Health and Safety Plan

This health and safety plan has been prepared in term of the Occupational Health and Safety Act 1993 (Act No 85 of 1993) and Regulations Construction Regulation 5. (1).

This Health and Safety Plan will be revised as and when additions, alterations etc are communicated to us by the Client, his Agent or the Architect / Designer or the conditions of the contract dictate.

1. PROJECT DETAILS

1.1. Project Name:

Physical address:

Contact Details:

Client name:

Postal address:

P O Box

Contact person - Name:

Contact No:

Telephone –

Cellular No:

Facsimile –

Email

1.2. Agent:

Company name:

Postal address:

Contact person - Name:

Contact No:

Telephone –

Cellular No:

Facsimile –

Email

1.3. Architect.

Company name:

Postal Address:

P O Box

Contact person:

Postal address:

P O Box

Contact No:

Telephone –

Cellular:

Facsimile –

Email:

1.4. Principle Contractor

Company name:

Postal Address:

P O Box

1.4.1. Project Manager.

Name:

Contact No:

Telephone –

Cellular:

Assignee Sect 16(2)

Facsimile

Email

1.4.2. Construction Work Supervisor:

Name:

Contact No:

Telephone

Cellular telephone No:

Construction Regulation 6. (1)

Facsimile

1.5. Scope of work

Doors

Electrical installation – re-wiring

Glazing

Granite tops

Plastering

Plumbing and drainage

Shop fittings

Softs, curtains etc

Tiling

NB Where there is construction work in progress with other personnel in the immediate vicinity activities must be co-ordinated by the Principle Contractor and the other Contractors.

1.6. Duration of contract: Start – Expected completion –

1.7. Emergency Telephone Numbers:

An emergency telephone number list should be prominently displayed adjacent to the telephone
The contents of this list is flexible and the following is given as a guide –

EMERGENCY TELEPHONE NUMBERS

Service	Name	Business	After Hours
i Ambulance:			
ii Doctor:			
iii. Hospital:			
iv. Fire Department:			
v. S.A. Police Services:		10111	
vi. Department of Labour:			
vii. Compensation Insurer			
vii.a COID – Commissioner			
vii.b. FEMA			
Project Manager:			
Safety Advisors:			
Telephone			
Facsimile			
Email			

DEPARTMENT OF LABOUR

Provincial Office

Department of Labour:

Contact No:

OCCUPATIONAL HEALTH AND SAFETY

2. Policy statement

The Company is committed to providing a safe and healthy working environment and this occupational health and safety plan documents the action that will be implemented.

We acknowledge that as the Principle Contractor we have both a legal and moral obligation to as far as is reasonable and practicable to develop a realistic Health and Safety plan making due reference to the Clients Health and Safety Specification.

We further accept that we must ensure that the relevant legislation is complied with and that all reasonable and practicable steps are taken by all Contractors to provide a safe and healthy environment for persons to work in and that the public are adequately protected.

An independent health and safety advisor will conduct a monthly legal compliance audit to ascertain the level of adherence with statutory requirements, company policy and rules including Occupational Health and Safety, Environmental and Quality standards.

3. Objective.

To complete the project within the budget in respect of finance and time, to an acceptable quality and with no injuries to employees or other persons.

The specific purpose is to achieve and maintain realistic and sustainable International and locally acceptable standards. A ZERO tolerance attitude towards incidents and non-compliance of prescribed quality and workmanship will be adopted. Deviations will be investigated and the appropriate corrective action must be implemented.

NB This Specification will be imposed on all Contractors and their employees working on this project.

4. Common Vocabulary (COMVOC)

Terminology

- 4.1. Basic Conditions of Employment Act 1997 (Act No 75 of 1997)
- 4.2. Compensation for Occupational Injuries and Diseases Act 1993 (Act No 130 of 1993)
- 4.3. Department of Labour
- 4.4. Department of Labour – Inspection and Enforcement Services
- 4.5. Federated Employers Mutual Assurance Company Limited
- 4.6. National Building Regulations and Standards Act 1997 (Act No 103 of 1997)
- 4.7. Occupational Health and Safety Act 1993 (Act No 85 of 1993) and Regulations
- 4.8. Occupational Health & Safety Act 1993 Construction Regulations, 2003
- 4.9. Provincial Director

Abbreviation

BCEA
COIDA
DoL
DoL (IES)
FEMA
NBR&S
OH&SA
CR
PD

5. Legislation

Definitions:

“client” the person for whom any construction work is performed,

Legislation

CR 4. (1)

“agent” means any person, appointed in writing to represents the Client,

CR 4 (5)

“architect / Designer” a person who prepares, checks, prepares or assists with a design,

CR

“competent person” a person with the knowledge, training, experience and qualification specific to the work or task being performed. Where there is, and he/she has the appropriate SAQA qualification,

CR

"construction Safety Officer" a competent person in relation to occupational health and safety in the construction industry,	CR
"Contractor" an employer who performs construction work,	CR
"ergonomics" the application of scientific information to optimise human well-being and performance,	CR
"fall prevention plan" a documented plan to eliminate or reduce the risk of falling,	CR
"hazard assessment" the analysis of all existing or potential hazard associated with the work being or to be performed.	
"hazard identification" the identification of existing or known hazards that is normally associated with the work being or to be performed,	CR
"health and safety file" a permanent record of the health and safety requirements prescribed in these regulations,	CR
"health and safety plan" a documented plan, including safe work procedures to mitigate, remove, reduce or eliminate the hazards identified,	CR
"health and safety specification" means a documented specification of the health and safety requirements for the tasks to be performed safely,	CR
"medical certificate of fitness" a certificate valid for one year issued by an occupational health practitioner registered with the Health Professional Council of South Africa,	CR
"method statement" the documented procedure to perform the task as reasonably and practicably safe,	CR
"national building regulations" means the regulations made in terms of section 17(1) of the NBR and BS Act, 1997 (Act No 103 of 1997).	
"principle Contractor" an employer who performs construction work appointed in writing by the Client or his appointed Agent,	CR
"professional engineer or professional certificated engineer" means any person holding registration as either a Professional Engineer or Professional certificated Engineer under the Engineering Professions Act, 2000,	CR
"provincial director" means the Provincial Director as defined in Section 1 of the General Administration Regulations under the Act,	CR
"risk assessment" a programme to determine any risks associated with a task and the to identify the steps to remove, reduce or control such hazard,	CR
"SABS – 085" the code of practice – "Design, erection, use and inspection of Access Scaffolding",	CR
"SABS – 0400" the code of practice for the application of National Building Regulations,	CR
"SABS EN 1808 and SABS 1903" the code of practice entitled "safety requirements on suspended access equipment design calculations, stability criteria, construction – tests",	CR

"The Act" means the Occupational Health and Safety Act 1993 (Act No 85 of 1993),	CR
"construction Vehicle" a vehicle used for means of conveyance for transporting persons or material or both as the case may be, both on and off the construction site for the purpose of performing construction work,	CR
"excavation" means any man – made cavity, trench, pit or depression formed by cutting, digging or scooping,	CR
"fall prevention equipment" means equipment used to prevent persons from falling from an elevated position,	CR
"roof apex height" means the dimensional height in meters measured from the lowest ground level abutting any part of a building to the highest point of the roof,	CR
"scaffold" means any temporary elevated platform and supporting structure used for providing access to and supporting workmen or material or both,	CR
"structure" any building, steel or reinforced concrete structure, railway line, or siding, bridge, waterworks, reservoir or pipeline, cable, sewer, sewage works, fixed vessel, road, drainage works, earthworks, dam, wall, mast, tower, tower crane, batching plant, pylon, surface and underground tanks, earth retaining structures or any structure designed to preserve or alter any natural feature, and any other similar structure; (a) any formwork, false work, scaffold or other structure designed or used to provide support or means of access during construction work; or (b) any fixed plant in respect of work, which includes the installation, commissioning, decommissioning or dismantling and where any such work involves a risk to persons falling 2 metres or more.	C R

6. Statutory Obligations

Description	Legislation
6.1. Basic Conditions of Employment Act The relevant sections are to be complied with special attention to at least the following – Working hours, Conditions of employment and Remuneration, Termination of employment, Employment of child labour prohibited.	BCE
6.2. Compensation for Occupational Injuries and Diseases Act 1993 (Act No 130 of 1993) The Act provides for compensation for health conditions, death, diseases and or injuries that arises out of and in the course of an employee's duties. All employers-Principle Contractor and Contractors must register with a compensation insurer – either COIDA or FEMA. They must be in good standing – have proof of having paid their current assessment - in the form of either a receipt of payment or a letter of good standing from their compensation insured prior to commencing work on the project with a copy on Site.	COIDA
6.3. Occupational Health and Safety Act 1993 (Act No. 85 of 1993) The OH&SA is the primary law regulating occupational health and safety matters. The Act is a framework Act that provides for the development of detailed rules and standards through regulation. As a framework, the Act prescribes that - (a) the employer must provide and maintain a safe and healthy working environment for his employees and any person, who may enter onto the premises, (b) the duties of employers to their employees, employees to their employer and suppliers to the employer and (c) the "reasonable man" approach by the employer in decisions concerning occupational health and safety,	OH&SA

- (d) the management, application and enforcement of the Act and regulations are the responsibility of the employer i.e. be he the appointed agent where applicable, Project Managers, each principle Contractor and Contractor.
- (e) each principle Contractor and Contractor shall have a copy of the Act which must be available on site at all times. Employees are to be allowed reasonable access to the Act during normal working hours.

NB Interpretation

Where there is any question as to the interpretation of any legislation and an agreement cannot be reached the matter is to be escalated from Contractor to Principle Contractor to the client. Should the matter still not be resolved it needs to be referred to the Provincial Director – Department of Labour.

7. Project Management

Description	By whom	Legislation
7.1. Notification of Construction Work.	Principle Contractor	CR 3.1
7.2. Health and Safety Specification The Health and Safety Specification from the Client must be referred to when preparing this Health and Safety Plan.	Client to provide.	CR 4. (1)(a)
7.3. Health and Safety Plan This Health and Safety Plan reflect the procedure that will be implemented to ensure legal compliance during Construction Work.	Contractor	CR 5. (1)
7.4. Health and Safety File All documentation – minutes of health and safety committee meetings, risk identifications / assessments, legal compliance audits, induction and other training including service records of equipment and machinery etc must be included in the file.	Contractor	CR 5. (7)
7.5. Agreement with Mandatory A written agreement will be entered into between the Client and the Agent, the Agent and each Contractor.	Client / Agent / Principle and Contractor	Act Sec 37(2)
7.6. Appointment of each Contractor by the Agent.		C R 5 (3) (b)
7.7. Organisation chart		
7.7.1. Assignment of Duties Mr _____ is assigned the duty of ensuring that the requirements of the Act and Regulations and this Health and Safety Plan are complied with during the Construction Work.	Contracts Manager	Act Sec 16(2)
7.7.2. Construction Supervisor Mr _____ is appoint, in writing a competent employee to supervise the day-to- day construction work on the project. The supervisor will manage and control all construction activities in the absence of the Sect 16(2) assignee.	Site Agent	CR 6. (1)
7.7.3. Sub-ordinate Construction Supervisor. Mr _____ is appointed to be in control of the project in the absence of the Site agent appointed in terms of Construction Regulation 6. 1. NB Under no circumstances may a Contractor leave employees on the site unless there is a competent construction work supervisor present.		CR 6. (2)
7.7.4. Construction Safety Officer Mr _____ has been appointed a part – time construction safety officer for the duration of the project.	Part-time/Full-time	CR 6. (6)

7.7.5. Contractors

CR 5. (3)(b)

An up dated list of Contractors will be kept and maintained on Site.

Company:

Activity:

Address

Contact person:

Contact numbers:

Telephone –
Cellular –

Facsimile –
Email:

Company:

Activity:

Address:

Contact person:

Contact numbers:

P O Box

Telephone -
Cellular -

Facsimile
Email:

Company:

Activity:

Address:

Contact person:

Contact numbers:

P O Box

Telephone -
Cellular –

Facsimile –
Email:

Company:

Activity:

Address:

Contact person:

Contact numbers:

P O Box

Telephone –
Cellular –

Facsimile –
Email

Company:

Activity:

Address:

Contact person:

Contact numbers:

P O Box

Telephone –
Cellular –

Facsimile -
Email:

Company:

Activity:

Address:

Contact person:

Contact numbers:

P O Box

Telephone -
Cellular –

Facsimile
Email:

Company:

Activity:

Address:

Contact person:

Contact numbers:

P O Box

Telephone –
Cellular –

Facsimile –
Email:

Company:

Activity:

Address:

P O Box 1254 –

Contact person:

Contact numbers:

Telephone –
Cellular –

Facsimile
Email:

Every Contractor is responsible to ensure that his employees comply with the applicable legislation and this health and safety plan.

NB: A section 37(2) Agreement with Mandatory must be entered into between the Contractors and the principle Contractor.

NB Contractor who contracts out construction work. Where a Contractor contracts construction work out to another Contractor he becomes the Principle Contractor and a section 37(2) agreement must be entered into.

7.7.6. Designation of the Health and Safety Representative / s **Act sect 18**

Mr _____ is a designated health and safety representative.

He will perform his prescribed duties in his area of responsibility. **Act sect 18(1) (g)**

7.7.7. Appointment as the Risk Assessor / Facilitator. **C R 7(1)**

Mr _____ is appointed to identify and record the risks associated with tasks being or that will be performed. These assessments must be reviewed as and when necessary.

7.7.8. Scaffold Inspector:

C R 14(2)

Mr _____ is appointed for this project.

Scaffolds must be inspected as prescribed and the findings reflected in the register provided.

8. Incident Management – Occupational Health and Safety

8.1. Incidents and or injuries

A policy of ZERO tolerance is the target for the project. Every thing reasonable and practicable must be adopted and actively implemented to prevent any incident or injury. Every possible danger or hazard must be identified, documented, analysed and the appropriate action to mitigate and or reduce them implemented. The necessary training of employees must be identified and introduced.

TARGET - NO FATAL OR DISABLING INJURIES

Report to inspector regarding certain incidents

Sect 24

Each incident, which occurs at work or that, arises out of or in the course of his employment that could either result in the employee's death that he loses a limb or part of a limb, becomes unconscious or that he is unable to continue with his normal duties for a period of 14 days must be reported to the relevant Provincial Director of Labour.

8.1.1. no person shall without the permission of an inspector, in the event of an incident described in (1) above disturb the site –

NB Although incidents, which occur on a public road or that, are aviation related must be reported if it arose out of and in the course of the employee's employment.

Domestic incidents are excluded.

Definitions.

Accident

C O I D Def

Means an accident arising out of and in the course of an employee's employment and resulting in a personal injury, illness or the death of the employee.

Occupational disease

Means any disease contemplated in section 65(1) (a) or (b). NB It includes conditions resulting from exposure to items either used and or exposed to in work place.

Occupational injury

Means any personal injury sustained as a result of an accident.

Classifications.

Fatal - Where the employee dies.

Disabling - When an employee cannot continue to perform the duty he was employed for.

Lost time incident - When an employee does not return to perform the work he was employed for on the next normal working day.

Disabling Lost Time - When an employee sustains an injury on duty and does not return to perform the duties he was employed to do on the next normal working day.

Medical treatment incident - When an employee sustains an injury at work and requires medical – more than first aid treatment i.e. medical, surgical, hospital or skilled nursing services.

First Aid case - Where the wound is treated from the contents of a first aid box

Disabling Lost Time Injury Frequency Rate (DIFR) It is the number of disabling injuries, including a death multiplied by 1 million (1,000,000) divided by the total number of man-hours worked by all employees on the project for a specific month or the project to-date.

$$\text{DIFR} = \frac{\text{No of disabling lost time injuries} \times 1,000,000}{\text{Total man-hours work for the period under review}}$$

8.1.2. Reporting.

COIDA

An incident must be reported to the relevant Provincial Director and on the prescribed W.CL 2(E) document and within the prescribed time frame i.e. when the employer becomes aware of or the incident was reported to him.

8.1.3. Recording.

All incidents must be recorded on a document similar to the injury statistic form provided.

8.1.4 Investigation.

Sect 31 The

severity of the injury will dictate whom and when the investigation must be conducted. Where reasonable and practicable all incidents must be investigated prior to the end on the shift on which it occurred, reported to or his employer became aware thereof.

Fatal and serious injuries must be investigated before the end of the shift on which it occurred or as soon as reasonably practical after the occurrence. A team consisting of the Principle Contractor, the construction safety officer and the health and safety representative in whose area the incident occurred must conduct the incident investigation.

Where an employee of a Contractor is injured the Contractor and the health and safety representative for the area in which it occurred will be part of the team. The client or his agent may if they wish form part of the team. A record of the proceeding including signed statements, the name of the person conducting the investigation and persons assisting team members must be kept. All photographs etc must also be kept in the health and safety file.

NB In the event of a fatal, or potentially fatal incident the relevant DoL and the nearest South African Police Services station must be contacted. The scene of the incident may only be altered or disturbed with permission of an inspector or when it is necessary to rescue a person or lives in danger.

8.1.5. Analysis.

The statistics for the total project, each principle Contractor and Contractor must be analysed to ascertain if there is or if any trends are developing by the construction safety officer or a competent person appointed by the client, his agent, the principle Contractor's and all Contractors.

8.1.6. Statistics.

Comprehensive incident / injury statistics must be kept for the total project i.e. the Principle Contractor and every Contractor. The following information must be recorded and kept on the health and safety file of the principle Contractor / s and the Contractor / s.

The client or where applicable his appointed agent must ensure that the relevant statistics are collected, recorded, analysed and the appropriate action instituted. Where a construction safety officer is appointed it will form part of his duties and responsibilities.

Statistics must be kept in the format, suggested which is attached to this document.

The following incidents must be recorded – Fatal, disabling lost time, days lost, medical and first aid cases and man-hours worked. Statistics for the month under review and for the project to-date must be kept either together on one or more documents.

NB The Compensation Commissioner still refers to and reports the Disabling Injury Frequency Rate (DIFR). It has been decided to use the same formula. Contractors may use 200,000 in the formula. However they need to multiply by 5 to reflect the COIDA statistic rate.

8.1.7. Occupational disease / conditions

These must be reported and recorded as prescribed.

COIDA

8.1.8. Medical certificate of fitness.

A medical certificate of fitness, valid for 1 year must be available on the premises at all times for employee working on or operating the following:

i) *working in an elevated position,*

R

8. (2)(b)

i. *suspended platform,*

ii. *Cranes – mobile - tower*

iii. *Construction vehicles.*

During the process of task analyses and or risk assessment it is possible that

other tasks may indicate that a medical certificate of fitness is necessary. The prescribed conditions will apply as though it was legislated.

CR 15(12) (a)

CR 20(g)

CR21 (1) (d)(ii)

CR 7. (1)

8.2. Health and Safety Committee

Sect 19(4)

8.2.1. Composition.

Sect 19

The duly nominated, elected and designated employees, as health and safety representatives will serve on a health and safety committee. The Health and safety representatives will be required to attend the health and safety committee meetings. The Client and his appointed Construction safety officer are ex-officio members.

8.2.2. Meetings.

Meetings will be held on the day, date, time and place as mutually agreed upon by the health and safety representatives and management. The frequency will also be determined by the aforementioned.

Where the Principle Contractor has established a Health and Safety Committee the designated Health and Safety Representative shall serve on the Committee and the formula applied.

8.3. Legal compliance audits

8.3.1. Audit schedule

The attached schedule or a similar one approved by the Client and or the Principle Contractor must be used. The person conducting the assessment must report in writing any major deviations observed and where reasonable, practicable the corrective action recommended, the party responsible to take the action and a date by which such must be implemented.

3.2. Audit frequency.

An internal legal compliance audit will be conducted monthly.

CR 4. (1)

A legal compliance audit will be conducted by an external / independent auditor one (1) per month.

8.3.3. Analysis.

Each audit report must be tabled and discussed at the next relevant health and safety committee meeting. The chairman shall make any appropriate comments and or recommendations and sign the minutes. The Client, Principle Agent must receive a copy of the minutes. The audit of the Contractors must be consolidated, analysed and submitted to the principle Contractor and the client. The findings will be documented, analyses and recommendations made. Where necessary the client / agent will be consulted with to ascertain if additional resources and or finances are required. The action agreed on i.e. the responsible man test - and the time scheduling must be implemented. As the project progresses it may become necessary to increase the frequency of audits.

NB The construction safety office will assume and be appointed to perform these functions.

9. Log books and Registers.

9.1. First aid Equipment

GSR 3(3)

Mr _____ has been appointed the first aid attendant for the project. The prescribed contents of a first aid box will be available on the project and will be under the control of the first aid attendant.

9.2. Fire fighting appliances,

Mr _____ is appointed to inspect at the prescribed interval and record his CR 27 (g) findings in the appropriate register.

9.3. Access Scaffolding.

Mr _____ has been appointed to inspect access scaffolding as prescribed.

10. Risk Management

The prescribed risk identification, assessment and where necessary a method statement will be completed prior to coming on site where possible. As and when additional information etc is received concerning new or additional tasks the necessary risk identification, assessment must be conducted and approval obtained. Risks assessed that suggest a need for a change in design or other corrective action will be referred to the architect / designer or the client or his agent. Employees must receive, and sign acknowledgment of having received appropriate training, that they understood the requirement and would apply the knowledge.

Mr _____ is appointed the competent person to conduct the risk assessment.

11. Education and Training

11.1. Induction Training

No person will work on this project, or enter or be allowed to remain on the premises unless they have received and acknowledged in writing that they have received, understood and accept the conditions detailed in the induction programme.

A comprehensive list of all induction training given must be kept in the health and safety files and reported on, to management at least monthly. Training sessions must be conducted at least weekly.

NB Occasional visitors, client, agent, architect etc must be re-inducted when significant progress has been made on the project – risk, potential risks become apparent.

11.2. Site-specific training.

Site-specific training requirements will be identified. Where applicable a certificate on competency must be must be available – or a certified copy – on the site.

12. Evacuation procedure

12.1. The Clients or Principle Contractors evacuation procedure will be communicated to all employees.

12.2. All Company employees will report to their assembly point - the site office.

12.3. Definition of an emergency:

An emergency is a major occurrence such as a fire, bomb threat, chemical spillage, explosion, aircraft crash, or a natural disaster i.e. earthquake / cyclone, which could result in injury, loss of life, or extensive damage to property and the environment.

12.4. Alarm

An audible alarm will be sounded to warn employees of an emergency and also when the situation returns too normal.

12.5. Employee response to an alarm.

Stop working,

If you are using an electric or pneumatic tool switch it off place it on the ground and proceed to the assembly point.

Report to your Supervisor

12.6. Employee response to the all-clear signal.

Return to your working area and proceed with the task you were busy with prior to the evacuation.

Fire: _____ 3 Short sharp blasts

Serious Incident : _____ Long – short – long blasts

All clear : _____ 5 seconds

13. Environmental Management.

Pressure on natural resources, including land, has continuously increased, as the population increases and likewise, awareness of the need to lessen the negative impacts of development and construction on the environment will continue to increase.

Every effort must be made to use environmentally friendly paints and where possible water-based. The containers once emptied must be disposed of at an approved disposal site or returned to the supplier.

14. Ergonomics

Ergonomics is "the study of work". Ergonomics therefore is the Profession that studies and analyses people at work, the work systems, and how best they fit together. Much of the work done on Construction Sites is by its very nature an ergonomic problem, because it requires physical work to be done above head height, and below waist level, aggravated by constructions materials being heavy and/or inconveniently sized and shaped, which presents further manual materials handling issues.

15 Health and Safety Communication

Minutes of all health and safety committee meetings shall after acceptance shall be displayed, strategically placed on a site notice board. Where appropriate Newspaper clipping may be used during "tool box" talks and induction training. Any change in company policy or legislation, the may affect employees must be communicated to employees as soon as is reasonable and practicable.

16. Safe work procedures.

A programme of safe work procedures is the be embarked on starting with those identified during the risk identification and assessment. Where reasonable and practicable steps have been taken and elements of risk still remain a procedure needs to be developed. The employees required to perform them must receive adequate training. Proof of training must be kept and be available on the premises. All procedures need to be documented.

17. Personal Protective Clothing and equipment.

PPE may only be issued only after all reasonable and practicable steps have been taken to remove or reduce the hazard and or potential hazards. Act sec 8(2)
GSR 2(2)

All items issued must be maintained in good working order i.e. serviced and repaired as and when necessary. Items must be issued free of charge and for the personal use of the employee. The employee shall sign acknowledgement of receipt of the items that he will use it, them as prescribed and that he has received the necessary training in the use and care of the items.

The principle Contractor and Contractor must take all reasonable steps to ensure that PPE GSR 2(6) issued is used, worn and maintained as described.

18. Project / Site Security.

18.1. Barricading and maintenance

Adequate and suitable solid barricading must be erect and maintained to prevent unauthorised entry as well as to control access onto and off the site. Suitable information signs must be strategically positioned. They will include but not be limited to the following – No unauthorised entry, all visitors must report to the Site office, personal protective clothing / equipment must be worn etc. NB Project / Site management are responsible for all activities taking place on the premises, and people who enter onto or who are allowed to remain on the site.

18.2. Access control

The Client is responsible for the access to and egress from the construction area.

19. Implementation costs.

The cost of implementation should include but are not limited to the following-

19.1. Administration

Project registration,
Occupational health and safety plan and file,
All assignments, appointments and designation,
Risk identifications and assessments and Logbooks and registers,
Health and safety committee meetings and minutes.

19.2. Training and Education

Induction training and badges,
First aid,
Health and safety representatives
Others - specify,

19.3. Legal compliance audits and reports.

Monthly or as required by the client.

19.4. Personal Protective Equipment and Clothing.

19.5. Other.

Site-specific requirements are to be specified.

Conclusion

This Health and Safety Plan has been developed and after negotiation with the Agent accepted. This approved plan will be made available to each Contractor prior to their commencing construction work on the project. We the undersigned do hereby acknowledge receipt of, understand and accept the contents of this Health and Safety Plan.

_____ Name	_____ Signature	_____ Designation	_____ Date
_____ Name	_____ Signature	_____ Designation	_____ Date
_____ Name	_____ Signature	_____ Designation	_____ Date

Price List

Item	Description	Unit	Quantity	Rate	Price
A	JUPITER 3KV DC TRACTION SUBSTATION (Double Unit)				
	Main Transformer – Unit B				
1	Remove, store, purify, vacuum and test oil to specification.	sum	1		
2	Replace top cover gasket.	sum	1		
3	Re-gasket primary radiator fins.	sum	1		
4	Re-gasket secondary radiator fins.	sum	1		
5	Re-gasket the top drain valve	sum	1		
6	Re-gasket Bucholz relay	sum	1		
7	Re-gasket the primary bushings	sum	1		
8	Re-gasket the secondary bushings	sum	1		
9	Re-gasket the conservator tank valve	sum	1		
10	Replace a conservator tank side glass	sum	1		
11	Replace the sampling valve	sum	1		
12	Replace a silica gel container	sum	1		
13	Sample oil test before and after the refurbishment.	sum	1		
14	Top up transformer with virgin oil.	sum	1		
15	Clean, treat and paint transformer, fins, conservator and plinth.	sum	1		
16	Treat and clean oil polluted ballast. (Do not use the 1mx1m digging method).	sum	1		
17	Supply and install bottom tap for oil sampling.	sum	1		
18	Generator/Standby plant Hire/Oil Tank.	sum	1		
19	Installation, Testing and Commissioning.	sum	1		
20	P's and G's (Labour, site establishment, transport, civil works, soil testing and preparations, etc.)	sum	1		
21	Security	sum	1		
A	Sub-Total for Jupiter		R		

Contract Data

Price List

Item	Description	Unit	Quantity	Rate	Price
B	WESTONARIA 3kV DC TRACTION SUBSTATION.				
	Main Transformer (Unit A)				
1	Remove, store, purify, vacuum and test oil to specification.	sum	1		
2	Re-gasket two secondary radiator fins.	ea	2		
3	Re-gasket all secondary bushings.	sum	1		
4	Re-gasket Buccholz relay	sum	1		
5	Sample oil test before and after the refurbishment.	sum	1		
6	Top up transformer with virgin oil.	sum	1		
7	Clean, treat and paint transformer, fins, conservator and plinth.	sum	1		
8	Re-gasket oil drain valve				
	Auxiliary Transformer (Unit A)				
9	Remove, store, purify, vacuum and test oil to specification.	sum	1		
10	Complete Re-gasket	sum	1		
11	Sample oil test before and after the refurbishment.	sum	1		
12	Clean, treat and paint transformer, fins, conservator.	sum	1		
	Main Transformer (Unit B)				
13	Remove, store, purify, vacuum and test oil to specification.	sum	1		
14	Re-gasket two secondary radiator fins.	ea	2		
15	Re-gasket all secondary bushings.	sum	1		
16	Re-gasket Buccholz relay	sum	1		
17	Sample oil test before and after the refurbishment.	sum	1		
18	Top up transformer with virgin oil.	sum	1		
19	Clean, treat and paint transformer, fins, conservator and plinth.	sum	1		
B	Sub-Total for Westonaria		R		

Contract Data

Price List

Item	Description	Unit	Quantity	Rate	Price
C	ROOIKOP 3kV DC TRACTION SUBSTATION (SINGLE UNIT)				
	Main Transformer				
1	Remove, store, purify, vacuum and test oil to specification.	sum	1		
2	Replace top cover gaskets.	sum	1		
3	Replace bottom cover gasket.				
4	Re-gasket CT's connection box.	sum	1		
5	Re-gasket two secondary radiator fins.	ea	2		
6	Re-gasket All Secondary and primary Bushings	sum	1		
7	Re-gasket Buccholz Relay				
8	Re-gasket the tank valves	ea	2		
9	Replace the oil temperature gauge complete with cabling.	sum			
10	Replace the winding temperature gauge complete with cabling.				
11	Top up main transformer with virgin oil.	sum	1		
12	Sample oil test before and after the refurbishment.	sum	1		
13	Clean, treat and paint transformer, fins, conservator and plinth.	sum	1		
14	Treat oil polluted ballast.	sum	1		
15	Generator/Standby plant Hire/Oil Tank.	sum	1		
16	Installation, Testing and Commissioning.	sum	1		
17	P's and G's (Labour, site establishment, transport, civil works, soil testing and preparations, etc).	sum	1		
18	Security.	sum	1		
C	Sub-Total for Rooikop R				

SUMMARY OF PRICES

A	Total for Jupiter =	R
B	Total for Westonaria =	R
C	Total for Rooikop =	R
D	Grand Total (A+B+C) =	R
E	Contingency (10 % of D) =	R
M	Gross Total (D+E) =	R
N	VAT (14% of M) =	R
O	Amount Due (M+N) =	R

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2.0 DRAWINGS

- 2.0 BBB 3620 version 3 : Drawing for earthing in 3kV DC substations.
- 2.1 CEE-TBD-0007 : Earthing arrangement for traction substations.
- 2.2 CEE-PA-13 : Drawing for test block.
- 2.3 BBB 0938 version 8 : Drawing for installation of Surge Arresters.

3.0 SPECIFICATIONS

3.0 South African National Standards:

- 3.0.1 SANS 1091 : National colour standard.
- 3.0.2 SANS 763 : Hot dip galvanised zinc coating.
- 3.0.3 SANS 121 : Hot Dip Galvanised Coating for Fabricated Iron or Steel Article.
- 3.0.4 SANS 10142-1 : Wiring Code.
- 3.0.5 SANS 0555.2007: Unused and reclaimed mineral insulating oil for transformer and switchgear.
- 3.0.6 SANS 8528 : Reciprocating internal combustion engine driven alternating current generating set.
- 3.0.7 SANS 1064.2005: Code of Practice for the preparation of steel surfaces for coating.

3.1 Transnet Freight Rail:

- 3.1.1 BBB 5452 version 3 : Transnet freight rail requirements for installation of electrical equipment for 3 kV DC substations.
- 3.1.2 BBB 3059 version 2 : Specification for earthing in 3kV DC substations .
- 3.1.3 CEE-TBK-0028 : Trip, lockout and indication circuit diagram.
- 3.1.4 S.420 (1999) : Specification for concrete work.
- 3.1.5 BBC 0198 version 1 : Specifications for the supply of cables.
- 3.1.6 CEE.0023.90 : Specifications for installation of cables.

- 3.1.7 CEE. 0229.95 : Dry-out and Regeneration of insulating oil and Reclaiming and de-sludging of transformers.
- 3.1.8 CEE.0045.2002/1 : Painting of steel Components of Electrical equipment.
- 3.1.9 CEE.0183.2002 : Hot dip galvanising and painting of electrical equipment.
- 3.1.10 CEE.0224.2002 : Drawings, catalogues, instruction manuals and spares list for electrical equipment supplied under contract.

NOTE: Any other specifications referenced in the above mentioned specification, will be for information purposes and may be provided on request.

- 4.0 Occupational Health and Safety Act No. 85 of 1993 (Available at depot for referral)

5.0 CONSTRAINTS ON HOW THE *CONTRACTOR* PROVIDES THE WORKS

- 5.0 The constraints shall be as specified in the specifications of the particular equipment.

6.0 REQUIREMENTS FOR THE PROGRAMME

- 6.0 Programme of work : To be submitted by successful Contractor
- 6.1 CIBD Grading : 3EE
- 6.2 Format : Gantt chart
- 6.3 Information : How work is going to be executed and commissioned
- 6.4 Submission : 3 weeks after the award of contract
- 6.5 Site diary : Successful Contractor to supply in triplicate carbon copies
- 6.6 Site instruction book : Successful Contractor to supply in triplicate carbon copies

7.0 SERVICES AND OTHER THINGS PROVIDED BY THE *EMPLOYER*

- 7.0 Transnet Freight Rail shall inspect the support steel structure on the premises of the manufacturer.
- 7.1 Transnet Freight Rail shall inspect all equipment before dispatching the equipment to site.
- 7.2 Transnet Freight Rail shall have an electrician available for isolation and the erection of barriers to live electrical equipment and issuing of work permits.
- 7.3 Upon successful completion of the works to the satisfaction of Transnet Freight Rail, Transnet Freight Rail shall perform necessary protection tests and commission the equipment.
- 7.4 The Contractor shall make necessary arrangements for sanitation, water and electricity at these relevant sites during the installation of the equipments.
- 7.5 Transnet Freight Rail will arrange for the reconnecting of telecontrol equipment in the substation and no final energising shall take place without this.

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8.0 Description of work

- 8.0 Where applicable in the attached schedule of quantities and prices, the Contractor shall perform the following:
- 8.0.1 The Contractor shall take special precautions not to pollute the site with oil. If any oil were spill at any stage of the work then it will be the responsibility of the Contractor to clean the oil and to restore the soil.
 - 8.0.2 The Contractor's team s could be requested to attend the Transnet freight rail's electrical safety training course and be authorised to supervise the Contractor's staff whilst working in the substations on this contract. Transnet freight rail will organise the course and further details will be communicated to the successful Contractor.
 - 8.0.3 The Contractor shall provide his/her own electrical power and other needs whilst working in the substation outdoor yard, since availability of power from Eskom or auxiliary supplies cannot be guaranteed.
 - 8.0.4 Re-gasket transformers as per bill of quantities.
 - 8.0.5 Provide the oil testing equipment, oil storage container, power plant and the filtering plant.
 - 8.0.6 Remove the oil from the main tank where it is necessary to perform the work. The oil shall be stored in PCB free storage containers.
 - 8.0.7 Refill the transformer with the stored oil and top up with the virgin mineral insulating oil after the completion of the works.
 - 8.0.8 Only virgin oil shall be used for topping up the transformer. The oil shall comply with the requirements specified in SANS 555 edition 4 of 2002.
 - 8.0.9 Perform a vacuum before refilling the transformer with oil up to the minimum required level.
 - 8.0.10 Perform oil tests before the commencement of work and 24 hours after the completion of the works. The oil samples shall be taken from the top and bottom of the main tank of the transformer.
 - 8.0.11 The Contractor shall re-tighten all newly installed gaskets three months after completion of the work.
 - 8.0.12 Remove and transport all earthing cables including rusted earth straps in the outdoor yard to Leeuhof depot.

8.0.13 Re-do earthing complete in the outdoor yard including earth straps on outdoor steelwork as per specification BBB 3059 version 2 and as per drawing BBB 3620 version 3.

8.0.14 Re-gasket silica gel breather pipe.

8.0.15 Supply and install oil and winding temperature gauges as per bill of quantities.

8.0.16 Supply and install bottom tap for oil sampling.

8.0.17 The Contractor shall repair any defects within 14 days from the date of inspection.

8.0.18 The Contractor shall repair any damage resulting from negligence of his or her staff to the substation equipment.

8.0.19 Perform oil purification of the transformer oil in accordance with Transnet freight rail specification CEE.0229 of 1995. The purified oil shall comply with the requirements specified in SABS 555 edition 4 of 2002.

8.0.20 Paint and treat corrosion in accordance with the practice recommended in SABS 064. 1979 and as specified in Transnet Freight rail's specification CEE.0045.90. Paint colours are as follows: -

- 8.0.20.1 Transformers grey;
- 8.0.20.2 Conservator tank white, and
- 8.0.20.3 Plinth red;

8.0.21 Contractor shall clean and treat oil polluted ballast and plinth.

8.0.22 The contractor shall supply security for the duration of the contract.

8.0.23 Remove all scrap from site and ensure that there is no environmental contamination.

8.0.24 Ensure that no ballast stone is contaminated during digging and filling of cable trenches and that the soil is compacted to the same density as surrounding soil.

9.0 TESTING AND ANALYSIS OF TRANSFORMER OIL

9.0 The contractor shall sample and test the transformer oil in accordance with the specification as shown below on Table 1. The test shall be done before the transformer is filled with oil.

Table 1. Tests to be done on virgin oil after delivery to site.

Oil	Unit	Specification	Reference and / or test method
Aromatic content	%	6 to 14 max	IEC 60590
Total fufural and furans	mg/kg	Not detectable	BS 148
Poly aromatics hydrocarbons	%	≤ 3,0 max	IP 346
Aniline point	OC	63 to 84	ASTM D611
Interfacial tension @ 20 OC	mN/m	≥ 40 min	ISO 6295
Neutralization value	mg KOH/g	≤ 0,03 max	BS 148
Corrosive sulphur		Non corrosive	Cigre CCD - method
Moisture	mg/kg	≤ 20 max	IEC 60814
Anti- oxidant additives	% by mass	No additives	IEC 60666
Oxidation stability acidity after 164 h @ 120 OC	mg KOH/g	≤ 0,4 max	IEC 60074
Oxidation stability sludge after 164 h @ 120 OC	% by mass	≤ 0,1 max	IEC 60074
Dielectric Strength	kV/ 2,5 mm	≥ 60 min	IEC 60156
Dissipation factor @ 90 OC		≤ 0,005 max	IEC 60247
Gassing Tendency	mm3/min	≤ 5	BS 148
Particles contamination and fibres per 100 ml	Particles size <15 µm	≤ 1000 particles/dm3	ISO 4406 of 2000
Silicon Content	ppm	Not detectable	
Polychlorinated biphenyl	mg/kg	Not detectable	EPA 608b

9.1 The oil tests shall be done by a SANAS accredited laboratory. The copy of the accreditation certificate shall be submitted together with the oil results.

9.2 The Contractor shall provide the following tests 48 hours after energizing the transformer:

- Moisture Content
- Acid Content
- Dielectric Strength Test
- Dissolved Gas Analysis
- Sludge Test
- Chlorine Test
- PCB Test*
- PCB test will be performed only if the Chlorine test is positive

9.3 The Contractor shall provide containers for sampling and labels for the information to be supplied with the sample. The labels must make provision for the following information:

- District / Depot
- Location (of substation)
- Date of sample
- Sampled by: (name)
- Unit Duty (Traction/ Auxiliary Transformers)
- Unit Make
- Unit Serial Number
- Unit Voltage (kV)
- Unit Capacity (MVA)
- Sampling Point
- Gauge Temperature
- Contract Number

9.4 Transnet Freight Rail shall not accept samples unless all the information has been provided.

9.5 The contractor shall provide a hard copy of the results to the Project Manager and Technical officer.

9.6 For each parameter tested, the Contractor shall provide an allowable limit. For example the report must show the breakdown of tests as shown below:

Test	Value	Allowable
Electric Strength	20kV	>60kV

10.0 SERVICE CONDITIONS

10.0 Transformer shall be repaired to its rated design for continuous operation under the following conditions.

10.0.1 Altitude: 0 - 1 800 m above sea level.

10.0.2 Ambient temperature: Minus 10 degrees Celsius to plus 40 degrees Celsius.

(Daily average: plus 35 degrees Celsius)

Humidity: as high as 86 percent.

10.0.3 Exposed surfaces will be in a highly polluted and corrosive atmosphere.

11.0 CLEANING THE TRANSFORMER

11.0 In order to get rid of decomposed oil content (carbon) and sludge, the coils, core and the tank of each transformer shall be washed with suitable flushing agents.

12.0 DRYING THE TRANSFORMERS

12.0 The following methods of drying out the transformer may be used:

- 12.0.1 The vapour phase process.
- 12.0.2 The oven dry process.
- 12.0.3 The vacuum dry out process.

12.1 Contractors who offer a vapour phase process to clean and dry transformers must ensure that the process does not cause any deterioration on the aged insulation.

12.2 For the vapour phase process the moisture level shall be less than 1,0 percent.

12.3 The Contractor shall indicate what dry-out process is to be implemented and the method used to determine the specified moisture level.

13.0 INSULATING OIL

13.0 The Contractor shall ensure that the mineral insulating oil used for filling the repaired transformer at the works and for topping up on site shall be filtered and tested for electrical strength, water content, acidity, sludge, flashpoint, resistivity and dielectric dissipation factor. The oil shall comply with the requirements specified in SANS 555. 2007.

13.1 The Contractor shall test the oil from the transformer that has failed in service to determine the cause of failure and to ensure that the oil is not contaminated with Polychlorinated Biphenals (P.C.B's).

14.0 INSPECTION

14.0 Transnet freight rail reserves the right to be present during repair work and testing and must be timeously advised of the dates of commencement of the repair work and of testing.

14.1 Arrangements must be made timeously via the "Project Manager" for Transnet freight rail staff from the Principal Engineer and his Technical Support, in Johannesburg or his designated personnel to perform witness and authorise the tests for each transformer repaired.

14.2 Calibration certificates less than 12 months old issued by a recognised authority for all instruments to conduct tests on transformers shall be available for inspection, if requested by Transnet freight rail.

15.0 CORROSION PROTECTION AND PAINT FINISH

15.0 All interior and exterior metal surfaces of the transformer, and associated apparatus, subject to corrosion, shall be prepared for corrosion proofing and painted in

accordance with the practice recommended in SABS 064.1979 and as specified in Transnet freight rail's Specification No. CEE.045.2002/1.

- 15.1 All external surfaces shall be finished with an acceptable outer coat colour to match the existing finish.

16.0 CERTIFICATE OF ACCEPTANCE.

- 16.0 The issuing of an inspection certificate will be authorised by the Quality Assurance Section of Transnet freight rail after final acceptance of the transformer.

17.0 QUALITY ASSURANCE.

- 17.0 The Contractor shall indicate at the tendering stage what steps have been taken to implement a Quality System in terms of ISO 9002 and shall submit a Quality Plan.
- 17.1 Test bay. The Contractor shall have a fully equipped test bay as specified below. If required, these facilities will be inspected by Transnet freight rail.
- a) The capacity of the test bay shall be able to execute all routine tests including supplying impedance voltage at full load current.
 - b) Instrumentation- the class and accuracy of ammeters, voltmeters, wattmeters, and power analyser must be stated. Other instrumentation that must be available is a ratiometer to check ratios and polarity of the windings, resistance bridges and megger tester.
 - c) Equipment to execute all routine and type tests must be available - high frequency alternator 100 cycles to do inter-turn test, equipment for power frequency test, potential transformers, current transformers, voltage dividers and step-up / step-down voltage facilities.
 - d) All instrumentation must be calibrated by a recognised standards authority on a yearly basis and certified as to the accuracy.

18.0 SAFE WORKING ON TRANSNET FREIGHT RAIL SUBSTATION SITES.

18.0 The Contractor or his sub-Contractor shall be required to work on site in accordance with Transnet freight rail's safety specification E4E of April 1997 and the Occupational Health and Safety Act 85 of 1993.

18.1 The Contractor shall be required to work under direct supervision of Transnet freight rail's depot personnel on site and shall work only in the area which shall be demarcated by suitable barriers.

19.0 INSURANCE.

19.0 Transnet freight rail will provide insurance cover for the transportation of transformers and the work at the substation.

20.0 PENALTIES.

20.0 The following penalties will apply or part thereof for the delays. i.e. R 1000,00 per day.

21.0 OIL FILTERING EQUIPMENT

21.0 The oil purification plant shall be mobile, as the purification shall take place on the field. It shall be mounted on a roadworthy double axle trailer and be covered by a waterproof canopy.

21.1 Purification of the oil shall be carried out when the transformer is off load.

21.2 The oil shall be passed through a porous media for exposure to the effect of vacuum and easy of releasing moisture and gaseous contaminants. Porous media cartridge called coalesce is recommended for this process.

21.3 The filtration cartridges shall be constructed from non-migration type cellulose material with a high dirt holding capacity.

21.4 The plant shall have built in sensing devices to continually monitor all vital parameters. If any of the parameters deviate from normal operation, the plant shall shut down instantaneously preventing flow of oil.

21.5 The following parameters shall be monitored:

- Temperature
- Vacuum level
- Pressure
- Foam and overflow

➤ Motor overload

- 21.6 Diagnostic light shall remain on to inform the operator what failed and what corrective action is required.
- 21.7 A low watt density heater shall be used to prevent heat degradation of the oil. The maximum power density shall 1.7-watt/ cm².
- 21.8 Heater elements shall be encapsulated in steel tubes and be completely insulated from the oil to prevent fire hazards and to provide uniform heating of the oil.
- 21.9 Heaters shall be protected by fail-safe electronic type temperature controller.
- 21.10 The purifying plant should be able to achieve the following from three passes:-
- Remove water from 50 ppm down to 10ppm.
 - Remove gas from 12% by volume of oil to 1%.
 - Remove 95% of particles over 0,5 micrometer.
 - Improve the dielectric strength to at least 40 kV.
- 21.11 Instrumentation and electrical controls shall be located in a dust proof enclosure.
- 21.12 When the plant is operating automatically, a manual override of all functions shall be provided. A plant shall have an emergency shutdown switch, which will override any operation.
- 21.13 If high foam is detected, vacuum shall be reduced to acceptable level, and if the foaming persists for five seconds the plant shall shut down.
- 21.14 If the inlet or discharge valve is closed during start up or operation low-level alarm should activate and the plant shall be shut down.
- 21.15 The plant shall be fitted with phase sequence relay and automatic interlock to prevent incorrect rotation of equipment.
- 21.16 The plant shall be fitted with vacuum booster to enhance transformer dry out and the oil over flow shall be incorporated into this booster to prevent oil from transformer from entering into the booster.
- 21.17 The plant shall be fitted with programmable logic controller (PLC) to control the operation of the plant. The operator should simply push the start button and the PLC shall sequentially start the plant.
- 21.18 The plant shall also operate manually by the operator by selecting manual control. When the plant is operating manually, the PLC shall monitor all alarm functions of the plant.

21.19 The plant shall be equipped with an in line water in oil monitor. The monitor shall display water content in the transformer oil in parts per million (ppm).

21.20 The plant shall be equipped with a temperature monitor. The monitor shall display the temperature of transformer oil in degree Celsius (0C).

22.0 INSTALLATION

22.0 The Contractor shall be responsible for the transport to site, off-loading, handling, storage and security of all material required for the construction/execution of the works.

22.1 The Contractor shall be responsible for all necessary (as decided by the Transnet Freight Rail Project Manager or Technical Officer) connections between the equipment supplied and other components in the substation including connections to the earth-mat.

23.0 STEELWORK

23.0 The design, supply and installation of all steel structures for the support of equipment as well as the alterations to existing steelwork shall be the responsibility of the Contractor.

23.1 The manufacture of any steelwork shall not take place prior to the approval of the design drawings by the Supervisor.

23.2 Transnet Freight Rail shall inspect the steelwork (stainless or galvanized for corrosion) at the manufacturers works prior to dispatch.

23.3 All fasteners on steelwork, components and electrical connections (nuts and bolts) shall be secured using flat and spring washers where necessary.

23.4 All steelwork shall be galvanized in accordance with SANS 121 and, where required painted in accordance with specification CEE 045 of 2002/1.

24.0 DRAWINGS AND MANUALS

24.0 Supply three sets of A3 schematic wiring diagrams in hard copy format and electronic format for approval.

24.1 The Contractor shall present Transnet Freight Rail with the drawings for approval before manufacturing starts.

24.2 The Contractor shall be responsible for as built drawings on completion of the work.

25.0 QUALITY AND INSPECTION

25.0 Transnet Freight Rail shall inspect the support steel structure on the premises of the manufacturer.

25.1 The Contractor shall notify Transnet Freight Rail 14 days in advance of such an inspection date.

25.2 The Contractor shall apply 14 days in advance for the date of energizing.

25.3 The Contractor shall be responsible to issue a compliance certificate in terms of SANS 0142 for each site before energizing of the equipment shall take place.

26.0 GUARANTEE AND DEFECTS

26.0 The Contractor shall guarantee the satisfactory operation of the complete electrical installation supplied and erected by him and accept liability for maker's defects that may appear in design, materials and workmanship.

26.1 The Contractor shall be issued with a completion certificate with the list of all defects to be repaired within 14 working days after commissioning.

26.2 The guarantee period for these substations shall expire after:

A period of 12 months commencing on the date of completion of the contract / sub-order or the date the substation is handed over to Transnet Freight Rail whichever is the earliest.

26.3 Any defects that may become apparent during the guarantee period shall be rectified to the satisfaction of Transnet Freight Rail, and to the account of the Contractor.

26.4 The Contractor shall undertake work on the rectification of any defects that may arise during the guarantee period within 7-days of his being notified by Transnet Freight Rail of such defects.

26.5 The Contractor shall certify that the transformer is free of P.C.B. contaminants and label the transformer accordingly.

26.6 Should the Contractor fail to comply with the requirements stipulated above, Transnet Freight Rail shall be entitled to undertake the necessary repair work or effect replacement of defective apparatus or materials, and the Contractor shall reimburse Transnet Freight Rail the total cost of such repair or replacements, including the labour costs incurred in replacing defective material.

- 26.7 Any specific type of fault occurring three times within the guarantee period and which cannot be proven to be due to other faulty equipment not forming part of this contract e.g., faulty locomotive or overhead track equipment, etc., shall automatically be deemed an inherent defect. Such inherent defect shall be fully rectified to the satisfaction of the Project Manager or Technical Officer and at the cost of the Contractor.
- 26.8 If urgent repairs have to be carried out by Transnet Freight Rail staff to maintain supply during the guarantee period, the Contractor shall inspect such repairs to ensure that the guarantee period is not affected and should they be covered by the guarantee, reimburse Transnet Freight Rail the cost of material and labour.

27.0 COMMISSIONING OF EQUIPMENT

- 27.0 Commissioning will only take place after all defects have been rectified to the satisfaction of the Project Manager or Technical Officer.
- 27.1 Commissioning will include energising of equipment from the primary isolator to the track feeder circuits. The Contractor must prove the satisfactory operation of all equipment under live conditions.
- 27.2 On completion of commissioning, the Contractor will hand the equipment over to the Project Manager or Technical Officer in terms of the relevant instruction.
- 27.3 The commissioning of protection equipment by Transnet Freight Rail will in no way absolve the Contractor from any of his responsibilities during the guarantee period. It is the Contractor's responsibility to satisfy himself or herself that the commissioning of the protection equipment has been carried out in a satisfactory manner, and in no way compromises the proper operation of the equipment supplied in terms of the contract.
- 27.4 The Contractor shall be present during the testing and setting of the protection to rectify any faults found.

Contract Data

Site Information

The works shall be performed at **Jupiter, Rooikop and Westonaria 3kv traction substations.**

END

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