



TRANSNET SOC LIMITED  
(REGISTRATION NO. 1990/00900/30)  
TRAINING AS  
TRANSNET FREIGHT RAIL

NEC3 Engineering & Construction Short Contract  
(ECSC)

RFQ No. MMC-ERAC-NGP-014315 CIDB

ROUTINE TESTING OF VARIOUS SUBSTATIONS UNDER  
THE CONTROL OF DEPOT ENGINEER NELSPRUIT FOR  
A PERIOD OF THREE (3) MONTHS.

Opens on: 29 July 2014  
Closing date: 12 August 2014 (at 10h00)  
Validity date: 31 October 2014

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## Part T1: Tendering Procedures

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## T1.1 TENDER NOTICE AND INVITATION TO TENDER

### RFQ No MMC-ERAC-NPG-014315 CIDB

Transnet SOC Limited trading as Transnet Freight Rail invites renderers for Routine Testing Of Various Substations Under The Control Of Depot Engineer Nelspruit

Tenderers should have a CIDB contractor grading designation of **1 EP** or higher.

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

Ms. Matete Madisha  
Tel. No. 013 656 4254  
Fax. No. 013 656 4259  
E-mail: Matete.Madisha

A compulsory clarification meeting with representatives of the Employer will take place on **Wednesday, 06 August 2014, 09H00** at **Transnet – Maroela Boardroom, Andrew Street at Nelspruit** and thereafter proceed to the entire substations for physical site briefing.

(For direction please contact **Klaintjie Matlala** on **083 401 1198**).

[Respondent to provide own PPE, transportation and accommodation].

Tenderers without a valid tender document in their possession will not be allowed to attend this compulsory clarification meeting/site inspections.

Tenderers shall be responsible for their own travel arrangements and cost regarding the site meeting and site inspections.

Tenderers without a valid tender document in their possession will not be allowed to attend this compulsory clarification meeting/site inspections. Tenderers shall be responsible for their own travel arrangements and cost regarding the site meeting and site inspections.

Transnet reserves the right to accept the whole or any part of a tender. Transnet also reserves the right to negotiate terms and conditions with all, or a short-listed group of contenders, or the preferred tenderer, should it be deemed necessary.

**This tender closes punctually at 10h00 on Tuesday, 12 August 2014.**

Tenders may only be submitted on the tender documentation that is issued. Telegraphic, telephonic, facsimile and late tenders will not be accepted. Tenderers are warned that a tender will be liable to disqualification should any attempt be made by a Tenderer either directly or indirectly to canvass any officer(s) or employees of Transnet Limited in respect of a tender between the date the tender is submitted and the date of the award. A Tenderer may, however, at any time communicate with the Chairperson of the Transnet Freight Rail Acquisition Council, at telephone no. 011 5449486 on any matter relating to his tender.

Envelopes must not contain documents relating to any tender other than that shown on the envelope. *No slips are to be attached to the tender documents. Any additional conditions must be embodied in an accompanying letter. Alterations, additions or deletions must not be made by the Tenderer to the actual tender documents.* 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 Limited 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.

#### **BROAD-BASED BLACK ECONOMIC EMPOWERMENT ("BBBEE")**

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

TRANSNET would therefore prefer to do business with business enterprises who share these same values and who are prepared to contribute to meaningful BBBEE initiatives (including and not limited to enterprise development, subcontracting and Joint Ventures) as part of their tender response.

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

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

***In terms of Government Gazette No. 32467, Notice No. 810 dated 31 July 2009, as from 1 February 2010 only BBBEE certificates issued by Accredited Verification Agencies of Verification Agencies that are in possession of a valid pre-assessment letter from South African National Accreditation System will be valid.***

***However accreditation certificates issued by non-accredited verification agencies before 01 February 2010 and which are still within their one (1) year validity period will still be acceptable, until their expiry date provided that the accreditation was done in accordance with the latest codes (i.e. those promulgated on 9 February 2007).***

**BBBEE Accreditation Certificates issued after the published date i.e. 01 February 2010, by a Verification Agency not approved by SANAS, will NOT be acceptable as from 01 February 2010.**

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

- (a) **Large Enterprises (i.e. annual turnover >R35 million):**
  - Rating level based on all 7 (seven) elements of the BBBEE scorecard
  - Enterprises to provide BBBEE certificate and detailed scorecard (to be renewed annually)
- (b) **Qualifying Small Enterprises – QSE (i.e. annual turnover >R5 million but <R35 million):**
  - Rating based on any 4 (four) of the elements of the BBBEE scorecard
  - Enterprises to provide BBBEE certificate and detailed scorecard (to be renewed annually)
- (c) **Exempted Micro Enterprises – EME (i.e. annual turnover <R5m are exempted from being rated or verified):**
  - Automatic BBBEE Level 4 rating, irrespective of race ownership, i.e. 100% BBBEE recognition
  - Black ownership >50% or Black Women ownership >30% automatically qualify as Level 3 BBBEE rating, i.e. 100% BBBEE recognition
  - EME's should provide documentary proof of annual turnover (i.e. audited financials) plus proof of Black ownership if Black ownership >50% or Black Women ownership >30% (to be renewed annually) from their Auditors / Accounting Officers

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

**Each respondent is required to furnish proof of its BBBEE status (Certificate and Detailed Scorecard) and ensure that the documentation is valid at the date of Tender Submission as stipulated above to TRANSNET.**

**Failure to submit your BBBEE Certificate and Detailed Scorecard will result in a score of zero being allocated for BBBEE evaluation.**

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

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

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

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

Kindly provide Transnet with your DTI B-BBEE UNIQUE PROFILE NUMBER with all tender submissions.

**DTI BBEE UNIQUE PROFILE NUMBER:**

Failure to submit your BBEE information in terms of the above-mentioned clauses will result in a score of zero being allocated for BBEE evaluation.

Suppliers and Tenderers are requested to duly complete the Supplier Declaration Form (SDF) and provide all the relevant supporting attachments as requested. Failure to provide the following may disqualify your tender submission:-

1. Duly completed SDF
2. BBEE Certificate and detailed scorecard
3. Current tax clearance certificate

The Supplier and Tenderer shall furnish proof of the above to Transnet.

Transnet at its sole discretion may decide to allow certain price preferences in order to uplift the historically disadvantaged in terms of the PPPFA (Act 5 of 2000).

Transnet insists on honesty and integrity beyond reproach at all times and will not tolerate any form of improper influencing, bribery, corruption, fraud, or any other unethical conduct on the part of bidders/ Transnet employees. If, in the opinion of Transnet's Chief Operating Officer, a tenderer/contractor/ supplier has or has caused to be promised, offered or given to any Transnet employee, any bribe, commission, gift, loan, advantage or other consideration, Transnet shall be entitled to revoke the tender / contract by following its internal policies that govern the Exclusion process. In such an event Transnet will be entitled to place any Tenderer/Contractor/Supplier who has contravened the provisions of Transnet's business ethics on its List of Excluded Tenderers. This List will also be distributed to all other State Owned Enterprises and Government Departments.

Transnet invites its valued suppliers to report any allegations of fraud, corruption or other unethical activities to Transnet Tip-offs Anonymous, at any of the following addresses/contract numbers :-

- Toll free anonymous hotline – 0800 003 056
- Email – [Transnet@tip-offs.com](mailto:Transnet@tip-offs.com)
- Fax number – 0800 007 788
- Freepost DN 298, Umhlanga Rocks, 4320

**CONFIDENTIALITY IS GUARANTEED.**

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## Part T1.2: Tender Data

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## T1.2 TENDER DATA

The conditions of tender are the Standard Conditions of Tender as contained in Annexure F of the CIDB Standard for Uniformity in Construction Procurement. (See [www.cidb.org.za](http://www.cidb.org.za)) 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 Limited trading as Transnet Freight Rail.**

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

**Part T1: Tendering procedure**

T1.1 Tender notice and invitation to tender

- Suppliers Code of Conduct

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 Contract Data: General

C1.2 Contract data: The contractor's Offer and Acceptance

C1.3 Contract Data: Works Information

**Part C2: Pricing data**

C2.1 Pricing instructions

C2.2 Price list

**Part C3: Scope of work**

C3.1 Works Information

C3.2 Secondary specifications

C3.3 General specifications

**Part C4: Site information**

C4 Site information

- Principal Controlled insurance

F.1.4 The employer's agent is:

**Name:** Mr. Kleintjie Matlala

**Address:** Electrical Department

Nelspruit Depot

**Tel:** 083 401 1198

**E-mail:** [Kleintjie.Matlala@transnet.net](mailto:Kleintjie.Matlala@transnet.net)

F.2.11 The following Tenderers who are registered with the CIDB, or are capable of being so prior to the evaluation of submissions, in a contractor grading designation equal to or higher than a contractor grading designation determined in accordance with the sum tendered for a **1 EP** class of construction work, 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 **1 EP** class of construction work; and

F.2.11(b) The arrangements for a compulsory clarification meeting are as stated in the Tender Notice and Invitation to Tender. 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 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. No alternative tender offers will be considered.

F.2.13.2 Return all returnable documents to the employer after completing them in their entirety, either electronically (if they were issued in electronic format) or by writing in black ink.

F.2.13.3 Parts of the 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 posted, the envelope must be addressed to:

**The Chairperson  
Transnet Freight Rail Acquisition Council  
P.O. Box 4244  
JOHANNESBURG  
2000**

and must be dispatched in time for sorting by the Post Office to reach the Post Office Box indicated above, before the closing time of the tender.

If delivered by hand, to be deposited to the Transnet Freight Rail Acquisition Council tender box which is located in the foyer, and to be addressed as follows:

**The Chairperson  
Transnet Freight Rail Acquisition Council  
Ground Floor, Inyanda House  
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 wide x 100mm high, 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.

#### **Identification details**

Tenders must be submitted before the closing hour on the date as shown in F.2.15 below, and must be enclosed in a sealed envelope which must have inscribed on the outside:

- (a) **Tender No**
- (b) **Description of work**
- (c) **Closing date of tender**

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 **(31 October 2014)**

F.2.19 Access shall be provided for the following inspections, tests and analysis:

Inspection of current arrangement foundation and steelwork condition and measurements in substation yards during the tender period after the site meeting and prior to the closing date of tender.

F.2.23 The Tenderer is required to submit with his tender:  
Either a Certificate of Registration issued by the Construction Industry Development Board or a copy of the application Form for registration in terms of the construction Industry Development Board Act (Form F006) and an original valid Tax Clearance Certificate issued by the South African Revenue Services.

F.3.4 The time and location for opening of the tender offers are:  
Time: **10:00** on the closing date of tender.  
Location: **Transnet Freight Rail Acquisition Council,  
Ground Floor,  
Inyanda House,  
21 Wellington Road,  
Park Town,  
JOHANNESBURG**

F.3.11.1 The procedure for the evaluation of responsive tenders is

The score for quality is to be calculated using the following formula:

$$W_Q = W_2 \times S_Q / M_S$$

Where:  $W_2$  is the percentage score given to quality and equals **60**  
 $S_Q$  is the score for quality allocated to the submission under consideration  
 $M_S$  is the maximum possible score for quality in respect of a submission

The score for financial offer is calculated using Formula 2 (option 1) of SANS294

Formula	Comparison aimed at achieving	Option 1	Option 2
	Highest price or discount	$A = (1 + \frac{P - P_m}{P_m})$	$A = P / P_m$
	Lowest price or percentage commission / fee	$A = (1 - \frac{P - P_m}{P_m})$	$A = P_m / P$

where:

$P_m$  = the comparative offer of the most favourable tender offer.  
 $P$  = the comparative offer of tender offer under consideration

Where:  $W_1$  is the percentage score given to financial offer and equals 100 minus  $W_2$ .

The score for quality and financial offer is to be combined, before the addition of the score for preference, as follows:

$$W_C = W_3 \times (1 + \frac{S - S_m}{S_m})$$

$S_m$

Where  $W_3$  is the number of tender evaluation points for quality and financial offer and equals:

- 1) 90 where the financial value, VAT inclusive, of all responsive tenders received have a value in excess of R1,000,000; or
- 2) 80 where the financial value, VAT inclusive, of one or more responsive tender offers equals or is less than R1,000,000.

S is the sum of score for quality and financial offer of the submission under consideration.

$S_m$  is sum of the score for quality and financial offer of the submission scoring the highest number of points

Up to 100 minus  $W_3$  tender evaluation points will be awarded to Tenderers who complete the preference schedule and who are found to be eligible for the preference claimed. Tenderers shall submit BBBEE rating certificates with detailed scorecards that will be issued by the verification agencies that do their BBBEE ratings in accordance with the latest Department of Trade and Industry codes of Good Practice.

F.3.11.3 Only those Tenderers who score a minimum score of **60** points in respect of the following quality criteria are eligible to submit tenders.

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:

- Functionality is included at a pre-qualification stage with a prescribed percentage threshold of 60
- 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 Goods or Services will be less than R1 000 000.00.
- If the 80/20 preference point system is stipulated and all Bids received exceed R1 000 000.00, the RFQ will be cancelled.
- The 90/10 preference point system applies where acquisition of the Goods or Services will exceed R1 000 000.00
- If the 90/10 preference point system is stipulated and all Bids received are equal to or below R1 000 000.00, the RFQ will be cancelled.
- **In this RFQ, Transnet will apply 80/20 preference point system prescribed in the PPPFA.**

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

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

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

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

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

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

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

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

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

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

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

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

Transnet will accordingly allocate a maximum of **20 [twenty] points** 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. [Refer **Annexure A- B-BBEE Preference Points Claim Form** for further details].

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

**Transnet will utilise the following criteria in choosing a Supplier/Service Provider, if so required:**

**Stage One - Administrative responsiveness**

- Completeness of response and returnable documents

**Stage Two - Substantive responsiveness (Mandatory requirements)**

- All respondents must be graded on a 2 EP CIDB grading.
- Valid Letter of Good Standing from Department of Labour

***The test for Administrative responsiveness and Substantive responsiveness must be passed for a Respondent's Quotations to progress to Stage Three for further evaluation.***

**Stage Three – Minimum Qualifying score is 60 % for Technical Criteria**

The test for the Technical and Functional threshold will include the following:

FUNCTIONAL EVALUATION	RATING					WEIGHT	TOTAL
	1	2	3	4	5		
Previous experience similar to this project						40%	
Technical Capacity/Resources						20%	
Clause by clause compliance to specification						20%	
Delivery period for the project						20%	



	<b>TOTAL</b>	<b>100</b>	
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The following applicable values will be utilised when scoring each criterion mentioned above:

Poor	=	20
Satisfactory	=	40
Good	=	60
Very good	=	80
Excellent	=	100

#### Stage Four – Pricing/BBB-EE scoring

The bidders that have successfully progressed through to Phase 2 will be evaluated in accordance with the **80/20 preference point system** contemplated in the Preferential Procurement Policy Framework Act (Act 5 of 2011)

#### Weighted evaluation based on 80/20 preference point system:

##### Pricing

- Pricing will be calculated using the lowest price quoted as the baseline, thus the lowest price quoted will achieve full marks, while all other quotes will achieve a weighted average mark based on the lowest price.
- Pricing and price basis [firm] - whilst not the sole factor for consideration, competitive pricing and overall level of unconditional discounts<sup>1</sup> will be critical

#### Transnet will utilise the following formula in its evaluation of Price:

$$PS = 90 \left( 1 - \frac{Pt - Pmin}{Pmin} \right) \text{ Where:}$$

- $Ps$  = Score for the Bid under consideration
- $Pt$  = Price of Bid under consideration
- $Pmin$  = Price of lowest acceptable Bid

- B-BBEE status of company

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

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

<b>B-BBEE Status Level of Contributor</b>	<b>Number of points (90/10 system)</b>	<b>Number of points (80/20 system)</b>
1	10	20
2	9	18
3	8	16
4	5	12
5	4	8
6	3	6
7	2	4
8	1	2
Non-compliant contributor	0	0

<b>Description</b>	<b>Total</b>	<b>Total</b>
Price	90	80
BBBEE	10	20
<b>Total</b>	<b>100</b>	<b>100</b>

F.3.13.1 Tender offers will only be accepted if:

- a) The Tenderer has in his or her possession an original valid Tax Clearance Certificate issued by the South African Revenue Services or has made arrangements to meet outstanding tax obligations.
- 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
- e) 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.

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 prices stated in the priced Activity Schedule 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. ***The tenders shall be completed in black ink only.***

### 3. ADDITIONAL TENDER CONDITIONS

- 3.1 Tenderers shall submit qualifications of staff that will be performing the works. Only qualified technical personnel shall perform the works on the electrical equipment or installations thereof.

- 3.2 During the duration of the contract, the successful Tenderer shall be required to inform the Deputy of any staff changes and provide the qualifications of the replacement staff for approval.

- 3.3 **Clause by clause statement of compliance to General conditions of Contract and technical specifications (Please refer to NEC Contract Data under Works Information on page 75 on item 3.2 under Transnet Freight Rail Specifications)**

**3.3.1** *Tenderers shall indicate clause-by-clause compliance with the specifications.*

**3.3.2** *This shall take the form of a separate document listing all the specifications clause numbers indicating the individual statement of compliance or non-compliance.*

**3.3.3** *Tenderers shall motivate a statement of non-compliance.*

**3.3.4** *Number the specifications according to the original tender document.*

**3.3.5** *The head and sub-headings must be listed next to the specification number.*

**3.3.6** *Indicate statement of compliance and motivate (give reasons for not complying).*

**3.3.7** *Indicate other statements which don't require compliance.*

**Note:** The committee will take decision to give an average score to companies who indicated their compliance but with short comings.

- 3.4 The Tenderer shall provide a Gantt or a similar bar chart showing how long it will take to complete the works and be energised. This chart shall be submitted with the tender submission on the closing date of the tender. Should a Tenderer be successful in winning a tender, a final bar chart shall be submitted within 14 days after the award of the contract to the employer by the successful Tenderer.
- 3.5 The Tenderer shall submit the programme/schedule in a bar chart format for the project.
- 3.6 The Tenderer shall indicate how the work will be executed and commissioned. (Approach paper)
- 3.7 Where equipment offered does not comply with standards or publications referred to in the specifications, Tenderers shall state which standards apply and submit a copy in English or certified translation.
- 3.8 Tenderers shall submit descriptive literature consisting of detailed technical specifications, general constructional details and principal dimensions, together with clear illustrations of the equipment offered.
- 3.9 During the duration of the contract period, the successful Tenderer shall be required to inform the Employer / Deputy of any changes to equipment offered and submit detailed information on replacement equipment for approval prior to it being used on this contract.
- 3.10 Tenderer shall submit equipment type test certificates as specified on the contract. These shall be in English or certified translation.
- 3.11 The Tenderer shall supply a site diary and site instruction books, both books shall be of triplicates carbon copies.
- 3.12 During the duration of the contract, the successful Tenderer shall be required to inform the Supervisor of any staff changes and provide the qualifications of the replacement staff for approval.

**4 Evaluation criteria of the tender to be met are:**

- 4.1 **Phase 1:** Will be a disqualifying phase and those that comply will progress to be competitively evaluated in **phase 2.** (Refer to clause F.3.11.3)

Minimum criteria for progressing from phase 1 to phase 2 is detailed below:

- Letter of Good Standing from Department of Labour.
- CIDB grading of **1 EP** or higher to be met.
- A clause by clause statement of compliance to the following documents:

- NEC ECSC General Conditions of Contract.
- All secondary specifications
- All general specifications

4.2 **Phase 2:** Refer to clause F.3.11.3 as mentioned above.

4.3 **Phase 3:** Will be evaluated in respect of Price and BBBEE at 90/10 ratio.

## 5. DISCLAIMERS

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

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

**Risk/ Safety Plan:**

5.1 A detailed plan indicating how risks and safety will be managed in a site must have the following key points depending on project requirements:

- a) Safe working procedures.
  - Construction Work supervisor
  - Subordinate construction work supervisor
  - Construction Safety officer
  - List of Tenderers already appointed – list to be updated at least monthly.
  - Health and safety representative
- b) SHE Organisation
  - Health and safety committees
  - Composition
  - Frequency of meetings
  - Minutes of meetings
  - Legal compliance audits
  - Audit report
  - Frequency of audits
  - Finding and analysis
  - Corrective action
- c) Risk Assessment/Management
  - Task descriptions
  - Risk identification, analysis, mitigating steps, monitoring steps and review plan
  - Risk assessment
- d) Education and training
  - Induction training
  - Site specific training
  - Certificate of competence
- e) Emergency planning (Evacuation plan)
  - Client procedure
  - Site procedure
- f) SHE communications
  - Safety/toolbox talks
  - Incident recall
- g) Safe working Procedures and Methods
  - Method statements.
  - Safe operating procedures
  - Task/job observations
- h) Personal Protective Equipment and Clothing
  - PPE required after all controls have been considered
  - PPE proof of issue
- i) Project security
  - Security risks identified
  - Access control

- j) Incident management
- k) Fall protection plan
- l) Substance abuse testing
- m) Logbooks and registers
- n) Health and Safety Costs

## **6 Environmental Management Plan**

6.1 A detailed plan indicating how environmental safety will be managed in a site must have the following key points depending on projects requirements:

- a) Control of dust
- b) Noise and pollution control
- c) Waste management
- d) Environment Incident Management
- e) Contamination of surface and underground water
- f) Soil contamination
- g) Storm water drainage
- h) Environmental clean-up and rehabilitation
- i) Environment monitoring
- j) Environment training and awareness
- k) Provision for environmental clean-up and rehabilitation cost (Budget)

## **7 Technical Capacity/Resources**

7.1 A detailed summary indicating technical capacity/resources to execute the work must have the following key points depending on projects requirements:

- a) Availability of transport to site.
- b) Number of skilled and unskilled labour who will perform work execution.
- c) Certificate for personnel with technical responsibilities
- d) Loading capacity of a truck, cranes and other machinery.
- e) Availability of tool(s) relevant to the project execution.

**Note:** The committee will take decision to give an average score to companies who indicated their compliance but with short comings.

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## Part T2: Returnable Documents

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## PART T2: RETURNABLE DOCUMENTS / SCHEDULES

### T2.1 LIST OF RETURNABLE DOCUMENTS

The tenderer must complete the following returnable documents:

#### 1.0 Returnable documents required for tender evaluation purposes

No	Returnable Documents
1	Letter of Good Standing with the Compensation Commissioner
2	Safety Plan and Fall Protection Plan in accordance with the Construction Regulations of 2003 and Transnet's E4E
3	Quality Assurance/control Plan
4	Environmental Management Plan
5	Certified copy of CIDB certification
6	Proposed Organization and Staffing
7	Certified Copy of Share Certificates CK1 & CK2
8	Certified Copy of Certificate of Incorporation and CM29 and CM9
9	Certified Copy of Identity Documents of Shareholders / Directors / Members (where applicable)
10	Original or certified cancelled cheque <b>OR</b> original or certified letter from the bank verifying banking details (with bank stamp and signature)
11	Current and original or certified Tax Clearance Certificate
12	Certified VAT registration certificate
13	A signed letter from the Accountant/Auditor confirming most recent annual turnover and percentage black ownership in the company <b>AND/OR</b> certified BBBEE certificate and scorecard from an accredited rating agency
14	Programme and method statement
15	Statement of compliance or non-compliance with all clauses of the Scope of Works and all the technical specifications. The clause-by-clause statement of compliance shall take the form of a separate document listing all the clause numbers of all the above specifications indicating the individual statement of compliance or non-compliance. Tenderers shall motivate a statement of non-compliance.

### T2.2 RETURNABLE SCHEDULES

The tenderer must complete the following returnable schedules:

**2.0 Returnable Schedules required for tender evaluation purposes**

No	Returnable schedules
1	Certificate of Attendance of Information Briefing Session or site inspection
2	Certificate of Authority for Signatory (Resolution by Board)
3	Schedule of Tenderers experience
4	Schedule of Subcontractors (where applicable)
5	Certificate of authority for joint ventures (where applicable)
6	Schedule of Plant and Equipment (Tools and Machinery)
7	Foreign Exchange Rate Information (where applicable)
8	Record of Addenda to Tender Document
9	Supplier declaration form (fully completed SDF (Supplier declaration form))
10	Compulsory enterprise Questionnaire
11	Approach paper which responds to the proposed scope of works.
12	Experience of Key Staff in the form of Curriculum Vitae
13	Transnet SOC limited contractual safety clauses which will form part of any resulting contract.
14	Proposed amendments and qualifications
15	Labour Payment Schedule

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**3.0 Returnable Schedules that will be incorporated into the contract**

- 3.1 Certificate of attendance of information briefing session/site inspection
- 3.2 Certificate of Authority for Signatory (Resolution by Board)
- 3.3 Schedule of Tenderers experience
- 3.4 Schedule of Sub-contractors
- 3.5 Certificate of authority for joint ventures (where applicable)
- 3.6 Schedule of Plant and equipment
- 3.7 Foreign Exchange Rate Information (where applicable)
- 3.8 Record of Addenda to Tender Document
- 3.9 Supplier declaration form duly completed (SDF)
- 3.10 Compulsory Enterprise Questionnaire
- 3.11 Approach paper, which responds to the proposed scope of works.
- 3.12 Experience of key staff in the form of Curriculum Vitae
- 3.13 Transnet SOC Limited contractual safety clauses which will form part of any resulting contract
- 3.14 Proposed amendments and qualifications.
- 3.15 Labour Payment Schedule.

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## Part T2: Returnable Schedules

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**CERTIFICATE OF ATTENDANCE AT INFORMATION BRIEFING SESSION/SITE INSPECTION**

This is to certify that

\_\_\_\_\_ (Tenderer)  
of \_\_\_\_\_

\_\_\_\_\_ (address)

\_\_\_\_\_ was represented by the person(s) named below at the compulsory site meeting held for all tenderers at \_\_\_\_\_ (location) on \_\_\_\_\_ (date), starting at \_\_\_\_\_ 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 person(s) attending the meeting/site inspections:

Name: \_\_\_\_\_ Signature \_\_\_\_\_

Capacity: \_\_\_\_\_

Name: \_\_\_\_\_ Signature \_\_\_\_\_

Capacity: \_\_\_\_\_

Attendance of the above persons at the meeting is confirmed by the Employer's representative, namely:

Name: \_\_\_\_\_ Signature \_\_\_\_\_

Capacity: \_\_\_\_\_ Date and time \_\_\_\_\_

### RESOLUTION OF BOARD OF DIRECTORS

Name of firm \_\_\_\_\_

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

FULL NAME(S) \_\_\_\_\_

SIGNATURE \_\_\_\_\_

in his capacity of \_\_\_\_\_ is/are hereby authorised to enter into, sign and execute and complete any documents relating to Tenders and/or Contracts for the supply of goods and services.

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

FULL NAME \_\_\_\_\_

CHAIRMAN

FULL NAME \_\_\_\_\_

SECRETARY

Certified true copy:

SIGNED AT \_\_\_\_\_ ON THIS \_\_\_\_\_ DAY OF \_\_\_\_\_ 20\_\_\_\_\_

### 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
<b>"PREVIEW COPY ONLY"</b>			

Signed \_\_\_\_\_ Date \_\_\_\_\_

Name \_\_\_\_\_ Position \_\_\_\_\_

Tenderer \_\_\_\_\_

**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 subcontractors who are contracted to construct a house are registered as home builders with the National Home Builders Registration Council.

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

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Signed \_\_\_\_\_ Date \_\_\_\_\_

Name \_\_\_\_\_ Position \_\_\_\_\_

Tenderer \_\_\_\_\_



### SCHEDULE OF PLANT AND EQUIPMENT

The following are lists of major items of relevant Plant and 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 Plant and 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 Plant and 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 \_\_\_\_\_

**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 w.f.c.r. in bond price (delete those not applicable).

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

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**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 \_\_\_\_\_

## TRANSNET SUPPLIER DECLARATION/APPLICATION

The Financial Director or Company Secretary

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

2. Complete the "Supplier Declaration Form" (SDF) on page 2 of this letter
3. **Original** cancelled cheque **OR** letter from the bank verifying banking details (**with bank stamp**)
4. **Certified** copy of Identity document of Shareholders/Directors/Members (where applicable)
5. **Certified** copy of certificate of incorporation, CM29 / CM9 (name change)
6. **Certified** copy of share Certificates of Shareholders, CM17 / CM12 (if CC)
7. A letter with the company's letterhead confirming physical and postal addresses
8. **Original** or **certified** copy of SARS Tax Clearance certificate and Vat registration certificate
9. A signed letter from the Auditor / Accountant confirming most recent annual turnover and percentage black ownership in the company **AND/OR** BBBEE certificate and detailed scorecard from an accredited rating agency (SANAS member).

**NB:**

- **Failure to submit the above documentation will delay the vendor creation process.**
- **Where applicable, the respective Transnet business unit processing your application may request further information from you. E.g. proof of an existence of a Service/Business contract between your business and the respective Transnet business unit etc.**

### IMPORTANT NOTES:

- a) **If your annual turnover is less than R5 million**, then in terms of the DTI codes, you are classified as an Exempted Micro Enterprise (EME). If your company is classified as an EME, please include in your submission, a signed letter from your Auditor / Accountant confirming your company's most recent annual turnover is less than R5 million and percentage of black ownership and black female ownership in the company **AND/OR** BBBEE certificate and detailed scorecard from an accredited rating agency (e.g. permanent SANAS Member), should you feel you will be able to attain a better BBBEE score.
- b) **If your annual turnover is between R5 million and R35million**, then in terms of the DTI codes, you are classified as a Qualifying Small Enterprise (QSE) and you claim a specific BBBEE level based on any 4 of the 7 elements of the BBBEE score-card, please include your BEE certificate in your submission as confirmation of your status.  
NB: BBBEE certificate and detailed scorecard should be obtained from an accredited rating agency e.g. permanent SANASMember).
- c) **If your annual turnover is in excess of R35million**, then in terms of the DTI codes, you are classified as a Large Enterprise and you claim a specific BEE level based on all seven elements of the BBBEE generic score-card. Please include your BEE certificate in your submission as confirmation of your status.  
NB: BBBEE certificate and detailed scorecard should be obtained from an accredited rating agency (permanent SANASMember).

- d) **To avoid PAYE tax being automatically deducted from any invoices received from you,** you must also contact the Transnet person who lodged this request on your behalf, so as to be correctly classified in terms of Tax legislation.
- e) Unfortunately, **No payments can be made to a vendor** until the vendor has been registered, and no vendor can be registered until the vendor application form, together with its supporting documentation, has been received and processed.
- f) **Please return the completed Supplier Declaration Form (SDF) together with the required supporting documents mentioned above to the Transnet Official who is intending to procure your company's services/products in order that he/she should complete and Internal Transnet Departmental Questionnaire before referring the matter to the appropriate Transnet Vendor Master Centre.**

Regards,

**"PREVIEW COPY ONLY"**

Transnet Vendor/Supplier Management *[please substitute this with your relevant Transnet department before sending this document out]*

Supplier Declaration Form

Company Trading Name							
Company RegisteredName							
Company Registration Number Or ID Number If A Sole Proprietor							
Form of entity	CC	Trust	Pty Ltd	Limited	Partnership	Sole Proprietor	
VAT number (if registered)							
Company Telephone Number							
Company Fax Number							
Company E-Mail Address							
Company Website Address							
Bank Name				Bank Account Number			
Postal Address						Code	
Physical Address						Code	
Contact Person							
Designation							
Telephone							
Email							
Annual Turnover Range (Last Financial Year)		< R5 Million		R5-35 million		> R35 million	
Does Your Company Provide		Products		Services		Both	
Area Of Delivery		National		Provincial		Local	
Is Your Company A Public Or Private Entity		Public			Private		
Does Your Company Have A Tax Directive Or IRP30 Certificate		Yes			No		
Main Product Or Service Supplied (E.G.: Stationery/Consulting)							
<b>BEE Ownership Details</b>							
% Black Ownership		% Black women ownership		% Disabled person/s ownership			
Does your company have a BEE certificate			Yes	No			
What is your broad based BEE status (Level 1 to 9 / Unknown)							
How many personnel does the firm employ			Permanent		Part time		
Transnet Contact Person							
Contact number							
Transnet operating division							
<b>Duly Authorised To Sign For And On Behalf Of Firm / Organisation</b>							
Name			Designation				
Signature			Date				

Stamp And Signature Of Commissioner Of Oath			
Name		Date	
Signature		Telephone No.	

NB: Please return the completed Supplier Declaration Form (SDF) together with the required supporting documents mentioned above to the Transnet Official who is intending to procure your company's services/products.

## 2. VENDOR TYPE OF BUSINESS

(Please tick as applicable) (\* - Minimum requirements)

2.1		Indicate the business sector in which your company is involved/operating:							
Agriculture		Mining and Quarrying							
Manufacturing		Construction							
Electricity, Gas and Water		Finance and Business Services							
Retail, Motor Trade and Repair Services		Wholesale Trade, Commercial Agents and Allied Services							
Catering, accommodation and Other Trade		Transport, Storage and Communications							
Community, Social and Personal Services		Other (Specify)							
Principal Business Activity *									
Types of Service Provided									
Since when has the firm been in business?									
2.2		What is your company's annual turnover (excluding VAT)? *							
<R20k	>R20k	>R0.3m	>R1m	>R6m	>R11m	>R16m	>R26m	>R31m	>R35m
	<R0.3m	<R1m	<R5m	<R10m	<R15m	<R25m	<R30m	<R34m	m
2.3		Where are your operating/distribution centres situated *							

## 3. VENDOR OWNERSHIP DETAIL

(Please tick as applicable) (\* - Minimum requirements)

3.1		Did the firm previously operate under another name? *



YES		NO	
<b>3.2</b>	<b>If Yes state its previous name:*</b>		
Registered Name			
Trading Name			
<b>3.3</b>	<b>Who were its previous owners / partners / directors?*</b>		
SURNAME & INITIALS		ID NUMBERS	

<b>3.4</b>	<b>List Details of current partners, proprietors and shareholders by name, identity number, citizenship, status and ownership as relevant: *</b>							
SURNAME & INITIALS	IDENTITY NUMBER	CITI-ZENSHIP	HDI	DIS ABLED	GENDER	DATE OF OWNERSHIP	% OWNED	% VOTING

<b>3.5</b>	<b>List details of current directors, officers, chairman, secretary etc. of the firm: *</b>					
SURNAME & INITIALS	IDENTITY NUMBER	TITLE	DIS - ABLED	GENDER	% OF TIME DEVOTED TO THE FIRM	CONTACT NUMBER

<b>3.6</b>	<b>List details of firms personnel who have an ownership interest in another firm: *</b>				
SURNAME & INITIALS	IDENTITY NUMBER	NAME & ADDRESS OF OTHER FIRM	TITLE IN OTHER FIRM	% OWNED	TYPE OF BUSINESS OF OTHER FIRM

**4. VENDOR DETAIL**

*(Please tick as applicable)*

*(\* - Minimum requirements)*

<b>4.1</b>	<b>How many personnel does the firm employ? *</b>
------------	---

	BLACK	WHITE	COLOURED	INDIAN	OTHER	TOTAL
Permanent						
Part Time						

4.1.1	In terms of above kindly provide numbers on women and disabled personnel? *					
	BLACK	WHITE	COLOURED	INDIAN	OTHER	TOTAL
Women						
Disabled						

4.2	Provide Details of Contact Person/s Responsible for Broad Based Black Economic Empowerment (BBBEE) in the Company *					
SURNAME	INITIALS	DESIGNATION	TELEPHONE NO.			

4.2.1	Is your company a value adding supplier (i.e. registered as a vendor under the VAT Act of 1991, where NPAT total labour cost > 25% of total revenue)?					
YES		NO				

4.2.2	Is your company a recipient of Enterprise Development Contributions?*					
YES		NO				

4.2.3	May the above mentioned information be shared and included in Transnet Supp Database for future reference? *					
YES		NO				

4.2.4	If you are successful in the tender/contract (where applicable) and this is awarded to your company / organisation, will this have a positive impact on your employment plans? *					
YES		NO				

4.2.5	If yes (above) kindly provide the following information:					
	BLACK	WHITE	COLOURED	INDIAN	OTHER	TOTAL
Permanent						
Part Time						

4.2.6	In terms of above kindly provide numbers on woman and disabled personnel:					
	BLACK	WHITE	COLOURED	INDIAN	OTHER	TOTAL
Women						
Disabled						

4.2.7	Are any of your members/shareholders/directors ex employees of Transnet					
YES		NO				

4.2.8	Are any of your family members employees of Transnet?					
YES		NO				

4.2.9	If Yes to points 4.2.7 & 4.2.8, list details of employees/ex-employees					
SURNAME & INITIALS	IDENTITY NUMBER	NAME & ADDRESS OF OTHER FIRM	TITLE IN OTHER FIRM	% OWNED	TYPE OF BUSINESS OF OTHER	

					FIRM

Internal Transnet Departmental Questionnaire (for office use only)

**Section 1: To be completed by the Transnet Requesting / Sourcing Department**

TFR	TRE	TPT	TPL	TNPA	TRN
Creat	Amen	Block	Unbloc	Once-Off / Emergency	
Exten	Delete	Undel			

Supplier's trading name \_\_\_\_\_  
 Supplier's registered name \_\_\_\_\_  
 Please indicate if the Supplier has a contract with sourcing Transnet OD  Yes  No  
 If yes please submit a copy of the letter of award \_\_\_\_\_

**a) What is being procured from the supplier?**

i. Products only	<input type="checkbox"/> Yes	<input type="checkbox"/> No
ii. Services only	<input type="checkbox"/> Yes	<input type="checkbox"/> No
iii. Labour only	<input type="checkbox"/> Yes	<input type="checkbox"/> No
iv. Mix of services and products	<input type="checkbox"/> Yes	<input type="checkbox"/> No
v. Mix of services and labour	<input type="checkbox"/> Yes	<input type="checkbox"/> No

b) If your answer is YES to questions II, III, IV or V in paragraph a) above, please indicate whether the relevant **KEY questionnaires** have been forwarded to the appropriate **Transnet Operational Divisions'** decision making bodies/ **Strategic Supply Management** team for a directive /decision on tax withholding from payments to this supplier.

Yes  No

c) If your reply to (b) is "NO", please furnish \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**d) Certification and Approval of proposed Vendor Creation/Unblocking/Other Changes by Transnet Official with Appropriate Delegated Authority :**

**I HEREBY CERTIFY THAT THE TRANSNET DETAILED PROCUREMENT PROCESS (DPP) / PROCUREMENT MECHANISM HAS IN ALL RESPECTS BEEN ADHERED TO AND I THEREFORE APPROVE THE PROPOSED VENDOR CREATION/APPROVAL/OTHER CHANGES TO BE EFFECTED ON THE VENDOR MASTER**

	Grade	Date	Signature
		Y Y Y Y M M D D	
Tel No:		Fax	

**Section 2: To be completed by the BEE Department (this section is for**

NARROW BASED (NB)				BROADBASED (BBBEE)								
BEE O	BWBE	DPBE	MR	CONTB. LEVEL	EME: <R5m	QSE: >R5m <R35m	LARGE: >R35m	VALIDITY DATE				
				Grade	Date				Signature			
					Y	Y	Y	Y	M	D		
					Y	Y	Y	Y	M	M	D	

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### 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 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                   |   |

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

Name of sole proprietor, partner, manager, shareholder 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.

- a member of any municipal council
- a member of any provincial legislature
- a member of the National Assembly or the National Council of Provinces
- a member of the board of directors of any municipal entity
- an official of any municipality or municipal entity
- 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)
- a member of an accounting authority of any national or provincial public entity
- an employee of Parliament or a provincial legislature

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 authorized to do so on behalf of the enterprise:

- i) authorizes the Employer to obtain a tax clearance certificate from the South African Revenue Services that my / our tax matters are in order;
- ii) 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;
- iii) 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;
- iv) 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
- iv) 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 \_\_\_\_\_

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**EVALUATION SCHEDULE: APPROACH PAPER**

The approach paper must respond to the scope of work and outline the proposed approach / methodology including that relating to health and safety. The approach paper should articulate what value add the tenderer will provide in achieving the stated objectives for the project.

The tenderer must as such explain his / her understanding of the objectives of the assignment and the Employer’s stated and implied requirements, highlight the issues of importance, and explain the technical approach they would adopt to address them. The approach paper should explain the methodologies which are to be adopted, demonstrate the compatibility of those methodologies with the proposed approach. The approach should also include a quality plan which outlines processes, procedures and associated resources, applied by whom and when, to meet the requirements and indicate how risks will be managed and what contribution can be made regarding value management.

The tenderer must attach his / her approach paper to this page. The approach paper should not be longer than 8 pages.

The scoring of the approach paper will be as follows:

	<b>Technical approach and methodology</b>
<b>Poor (score 40)</b>	The technical approach and / or methodology is poor / is unlikely to satisfy project objectives or requirements. The tenderer has misunderstood certain aspects of the scope of work and does not deal with the critical aspects of the project.
<b>Satisfactory (score 70)</b>	The approach is generic and not tailored to address the specific project objectives and methodology. The approach does not adequately deal with the critical characteristics of the project. The quality plan / manner in which risk is to be managed etc is too generic.
<b>Good (score 90)</b>	The approach is specifically tailored to address the specific project objectives and methodology and is sufficiently flexible to accommodate changes that may occur during execution. The quality plan and approach to managing risk etc is specifically tailored to the critical characteristics of the project.
<b>Very good (score 100)</b>	Besides meeting the “good” rating, the important issues are approached in an innovative and efficient way, indicating that the tenderer has outstanding knowledge of state-of-the- art approaches. The approach paper details ways to improve the project outcomes and the quality of the outputs

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The undersigned, who warrants that he / she is duly authorised to do so on behalf of the enterprise, confirms that the contents of this schedule are within my personal knowledge and are to the best of my belief both true and correct.

Signed \_\_\_\_\_ Date \_\_\_\_\_  
Name \_\_\_\_\_ Position \_\_\_\_\_  
Tenderer \_\_\_\_\_



**CURRICULUM VITAE OF KEY PERSONNEL**

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

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## TRANSNET SOC LIMITED / 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 Limited 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 Limited 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 Limited.
- 10) The Contractor shall furnish the\* Health and Safety Section/ Risk Manager/ Occupational Risk Manager of Transnet SOC Limited 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 sub-contractor 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 Limited 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 Limited.
- 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 Sub-Contractors Risk Assessment and Health and Safety Plan.
- 18) All incidents referred to in Section 24 of the Act involving the Contractor and his Sub-Contractor on Transnet Ltd premises, shall be reported as prescribed. Transnet Ltd hereby retains 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 Sub-Contractor, any person or machinery under his control on Transnet Ltd premises.
- 19) No alcohol or any other intoxicating substance shall be allowed on Transnet 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 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:		
<b>Tenderer OH&amp;S Management System Questionnaire</b>	<b>Yes</b>	<b>No</b>
<b>1. OH&amp;S Policy and Management</b>		
- Is there a written company health and safety policy? - If yes provide a copy of the policy		
- Does the company have an OH&S Management system e.g NOSA, OHSAS, IRCA Systems etc. - If yes provide details		
- Is there a company OH&S Management System, procedures manual or plan? - If yes provide a copy of the content page(s)		
- Are health and safety responsibilities clearly identified for all levels of Management and employees? - If yes provide details		
<b>2. Safe Work Practices and Procedures</b>		
- Are safe operating procedures or specific safety instructions relevant to its operations available? - If yes provide a summary listing of procedures or instructions		
- Is there a register of injury document? If yes provide a copy		
- Are Risk Assessments conducted and appropriate techniques used?		

- If yes provide details		
<b>3. OH&amp;S Training</b>		
Describe briefly how health and safety training is conducted in your company:		
- Is a record maintained of all training and induction programs undertaken for employees in your company? - If yes provide examples of safety training records		
<b>4. Health and Safety Workplace Inspection</b>		
- Are regular health and safety inspections at worksites undertaken? - If yes provide details		
- Is there a procedure by which employees can report hazards at workplaces? - If yes provide detail		
<b>5. Health and Safety Consultation</b>		
- Is there a workplace health and safety committee?		
- Are employees involved in decision making over OH&S matters? - If yes provide details		
- Are there employee elected health and safety representatives? - Comments		
<b>6. OH&amp;S Performance Monitoring</b>		
- Is there a system for recording and analysing health and safety performance statistics including injuries and incidents? - If yes provide details		
- Are employees regularly provided with information on company health and safety performance? - If yes provide details		
Is company registered with workmen's compensation and up to date? - If yes provide proof of letter of good standing		
- 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)

### 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
<b>"PREVIEW COPY ONLY"</b>		

Signed

Date

Name

Position

Tenderer

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TRANSNET SOC LIMITED  
(REGISTRATION No. 1990/000900/06)  
TRADING AS  
TRANSNET FREIGHT RAIL

LABOUR PAYMENT SCHEDULE

TENDERERS ARE REQUIRED TO COMPLETE THE FOLLOWING SCHEDULE:

DAY LABOUR (IF REQUIRED)

Skilled

Hour \_\_\_\_\_



Unskilled Hour \_\_\_\_\_

Labourer Hour \_\_\_\_\_

Driver/Operator Hour \_\_\_\_\_

% Profit on Material \_\_\_\_\_

TRANSPORT AND MACHINERY

	RUNNING	STANDING
1. Light vehicle up to 1 ton	_____	_____
2. 5 Ton vehicle	_____	_____
3. 10 Ton vehicle with crane	_____	_____
4. Crane	_____	_____
5. Scaffolding	_____	_____
6. Generator	_____	_____
7. Other equipment:	_____	_____

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

8. Full details of any other charges:  
\_\_\_\_\_  
\_\_\_\_\_

TENDERER: \_\_\_\_\_

DATE: \_\_\_\_\_

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## Contract Data

The Employer is

**Name** Transnet SOC Limited, Trading as Transnet Freight Rail

**Address** Pavillion Building, Room 19-21  
Cnr Botha Avenue & Rhodes Streets  
Witbank 1035

**Telephone** (013) 656 4296 Fax No. (013) 656 4259

**E-mail** [Nhlanhla.Vilakazi@transnet.net](mailto:Nhlanhla.Vilakazi@transnet.net)

The works is **Routine Testing Of Various Substations Under The Control Of Depot Engineers Nelspruit for a period of three (3) months**

The site is **Around Nelspruit Substations**

The starting date is .....

The completion date is .....

The reply period is **2 (two) weeks.**

The defects date is **52 ( FiftyTwo) weeks after completion**

The defect correction period is **within one week** after defects date

The delay damages are **N/A** per day (penalties)

The assessment day is the **13<sup>th</sup> (thirteenth)** of each month

The retention is **N/A (ten percent)**

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

The Adjudicator is

**Name** **To be advised if disputes arise.....**

**Address** .....

**Telephone** ..... **Fax No.** .....

**E-mail** .....

## Contract Data

The interest rate on late payment is ..... % per complete week of delay.

The *Contractor* is not liable to the *Employer* for loss of or damage to the *Employer's* property in excess of..... for any one event.

The *Employer* provides this: **Insurance Transnet Principal Control Insurance**

The minimum amount of cover for the third insurance stated in the Insurance Table is:  
**>R25, 000.00 (Limited to R10, 000,000.00. for any one event)**

The minimum amount of cover for the fourth insurance stated in the Insurance Table is:  
**Not applicable**.....

The adjudicator nominating body is: **The Chairman of the Association of Arbitrators (Southern Africa)**

The tribunal is: **Arbitration**

If the tribunal is arbitration, the arbitration procedure is: **The rules for the Conduct of Arbitrators of the Association of Arbitrators (Southern Africa)** .....

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

**As mentioned in paragraph 1.9 (Contractual obligations)**

### 1.0 CONTRACTUAL OBLIGATIONS

1.1 This project specification covers Transnet freight rail's requirements for the Refurbishment of Main Traction and Auxiliary Transformers at various substations.

A compulsory clarification meeting with representatives of the Employer will take place on **Wednesday, 06 August 2014, 09H00 at Transnet – Maroela Boardroom, Andrew Street at Nelspruit and thereafter proceed to the entire substations for physical site briefing.**

**(For direction please contact: Kleintjie Matlala on 083 401 1198).**

**[Respondent to provide own PPE, transportation and accommodation].**

Tenders must be deposited to the Tender Box, which will be located in the foyer of INYANDA HOUSE, Transnet freight rail and shall be addressed as follows : Chairperson, Transnet Freight Rail Acquisition Council, Inyanda House, 21 Wellington Road, Parktown.

1Tenders must be enclosed in a sealed envelope bearing the tender number “MMC-ERAC-NPG-014315 on the outside.

Please note that this tender closes punctually at **12 August 2014 at 10H00**.

- 1.1 The Contractor shall not make use of any Sub-Contractor to perform the works or parts thereof without prior permission from the Project Manager.
- 1.2 The Contractor shall comply with all applicable legislation and Transnet safety requirements adopted from time to time and instructed by the Project Manager / Supervisor. Such compliance shall be entirely at his own cost, and shall be deemed to have been allowed for in the rates and prices in the contract.
- 1.3 The Contractor shall, in particular, comply with the following Acts and Transnet Specifications:-
  - 1.3.1 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.
  - 1.3.2 The Occupational Health and Safety Act (Act 85 of 1993).
  - 1.3.3 The explosive Act No. 26 of 1956 (as amended). The Contractor shall, when applicable, furnish the Project Manager / Supervisor with copies of the permits authorising him or his employees, to establish an explosives magazine on or near the site and to undertake blasting operations in compliance with the Act.
  - 1.3.4 The Contractor shall comply with the current Transnet Specification E.4E, Safety Arrangements and Procedural Compliance with the Occupational Health and Safety Act, Act 85 of 1993 and Regulations and shall before commencement with the execution of the contract, which shall include site establishment and delivery of plant, equipment or materials, submit to the Project Manager / Supervisor.
  - 1.3.5 The Contractor shall comply with the current Specification for Works On, Over, Under or Adjacent to Railway Lines and near High Voltage Equipment – E7/1, if applicable, and shall take particular care of the safety of his employees on or in close proximity to a railway line during track occupations as well as under normal operational conditions.
- 1.4 The Contractor's Health and Safety Programme shall be subject to agreement by the Project Manager / Supervisor, who may, in consultation with the Contractor, order supplementary and/or additional safety arrangements and/or different safe working methods to ensure full compliance by the Contractor with his obligations as an employer in terms of the Act.
- 1.5 In addition to compliance with clause 1.4 hereof, the Contractor shall report all incidents in writing to the Project Manager / Supervisor. Any incident resulting in the death of or injury to any person on the works shall be reported immediately of its occurrence and any other incident shall be reported within 24 hours of its occurrence.
- 1.6 The Contractor shall make necessary arrangements for sanitation, water and electricity at these relevant sites during the installation of the equipments.
- 1.7 No penalty charge is applicable.
- 1.8 The Contractor shall supply a **site diary** (with triplicate pages). This book shall be used to record any unusual events during the period of the work. Any delays to the work shall also be recorded such as delays caused by poor weather conditions, delays caused by permits

being cancelled etc. The appointed Project Manager or Supervisor must countersign such delays. Other delays such as non-availability of equipment from 3<sup>rd</sup> party suppliers must be communicated to the Project Manager or Supervisor in writing.

- 1.9 The Contractor shall supply a **site instruction book** (with triplicate pages). This book shall be used to record any instructions to the Contractor regarding problems encountered on site – for example the quality of work or the placement of equipment. This book shall be filled in by the Project Manager or Supervisor and must be countersigned by the Contractor.
- 1.10 Both books mentioned in 1.10 and 1.11 shall be the property of Transnet Freight Rail and shall be handed over to the Project Manager or Supervisor on the day of energising or handing over.
- 1.11 All processes or the manufacture and assembly of the product components must be subjected to a quality assurance system.
- 1.12 The Contractor will assume full responsibility for assuring that the equipment utilised meet the requirements of Transnet Freight Rail for function, performance, and reliability, including purchased products from 3<sup>rd</sup> part suppliers/Manufacturers.
- 1.13 The Contractor shall prove to Transnet Freight Rail that his equipment or those supplied from 3<sup>rd</sup> party suppliers/manufacturers conform to Transnet freight rail specifications.
- 1.14 The Contractor will remain liable for contractual delivery dates irrespective of deficiencies discovered during testing.
- 1.15 Transnet Freight Rail reserves the right to award the contract based on delivery period due to the urgency of the substation.
- 1.16 Transnet Freight Rail reserves the right to award the contract in portions pertaining different work execution specialisation.

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**Part C1:  
Agreement and Contract Data**

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**Contract Data**

**The Contractor's Offer**

The Contractor is

**Name** .....

**Address** .....

.....

**Telephone** ..... **Fax No.** .....

**E-mail** .....

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 ..... (amount in words and amount in numbers)

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** .....

## 2.0 PRICING INSTRUCTIONS

1. The agreement is based on the NEC Engineering and Construction Short Contract 3. The contract specific variables are as stated in the contract data. Only the headings and clause numbers for which allowance must be made in the Price list are recited.
2. Preliminary and General Requirements are based on part 1 of SANS 1921, 'Construction and Management Requirements for Works Contracts'. The additions, deletions and alterations to SANS 1921 as well as the contract specific variables are as stated in the contract data. Only the headings and clause numbers for which allowance must be made in the Price list are recited.
3. It will be assumed that prices included in the Price list are based on Acts, Ordinances, Regulations, By-laws, International Standards and National Standards that were published 28 days before the closing date for tenders.
4. Reference to any particular trademark, name, patent, design, type, specific origin or producer is purely to establish a standard for requirements. Products or articles of an equivalent standard may be substituted.
5. The Price list is not intended for the ordering of materials. Any ordering of materials, based only on the Price list, is at the Contractor's risk.
6. The amount of the Preliminaries to be included in each monthly payment certificate shall be assessed as an amount prorated to the value of the work duly executed in the same ratio as the preliminaries bears to the total of prices excluding any contingency sum, the amount of the Preliminaries and any amount in respect of contract price adjustment provided for in the contract.
7. The amount or items of the Preliminaries shall be adjusted to take account of the theoretical financial effect which changes in time or value (or both) have on this section. Such adjustments shall be based on adjustments in the following categories as recorded in the Price list:
  - a) an amount which is not to be varied, namely Fixed (F).
  - b) an amount which is to be varied in proportion to the contract value, namely Value Related (V).
  - c) an amount which is to be varied in proportion to the contract period as compared to the initial construction period, excluding revisions to the construction period for which no adjustment the contractor is entitled to in terms of the contract, namely Time Related (T).
8. The following abbreviations are used in the Price list:

Hr	=	Hour
Ea	=	Each
OCB	=	Oil Circuit Breaker
GCB	=	Gas Circuit Breaker
PCB	=	Polychlorinated Biphenyl
Quant.	=	Quantity
9. The prices and rates in these Price list are fully inclusive prices for the work described under the items. Such prices and rates cover all costs and expenses that may be required in and for the execution of the work described in accordance with the provisions of the scope of work and shall cover liabilities and obligations set forth or implied in the Contract data, as well as profit.
10. Where the scope of work requires detailed drawings and designs or other information to be provided, all costs associated therewith are deemed to have been provided for and included in the unit rates and sum amount tendered for such items.
11. Where no quantity has been provided against an item in the Price list, the Contractor shall use their discretion and provide the quantity.



- 12 The quantities set out in these Price list are approximate and do not necessarily represent the actual amount of work to be done. The quantities of work accepted and certified for payment will be used for determining payments due and not the quantities given in these Price list.
- 13 The short descriptions of the items of payment given in these Price list are only for purposes of identifying the items. More details regarding the extent of the work entailed under each item appear in the Scope of Work.
- 14 Tenderers shall ensure that provision (financial as well as time) for excavations in a range of soil types is made for in their tenders.
- 15 For each item in the Price list, including Preliminaries, the Contractor shall provide in the appropriate column the portion of the tendered sum (inclusive of labour and material) which has been sourced locally (Republic of South Africa).
- 16 The Contractor shall also arrange forward cover within two weeks after contract award on all imported items.
- 17 The Contractor shall provide information related to imported content, i.e. equipment to be imported, value and applicable exchange rates. This information shall be provided as an Annexure to the Price list.
- 18 The total in the Price list shall be exclusive of VAT.

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**Part C2:  
Pricing Data**

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## Contract Data Price List

Item	Description	Unit	Qty	Rate	Price
<b>Part 1</b>	<b>Routine Tests on Double group 3KV DC Traction Substations</b>				
1	Waterval boven	ea	1		
2	Sycamore	ea	1		
3	Ngodwana	ea	1		
4	Rivulets	ea	1		
5	Westaffin	ea	1		
6	karino	ea	1		
7	boulders	ea	1		
8	malelane	ea	1		
9	droogland	ea	1		
10	Komatipoort	ea	1		
<b>A</b>	<b>Subtotal for Double Group 3KV Substation =</b>			<b>R</b>	
<b>B</b>	<b>VAT (14% ) of A =</b>			<b>R</b>	
<b>C</b>	<b>Gross Total (A+B) =</b>			<b>R</b>	

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# Contract Data Price List

Item	Description	Unit	Qty	Rate	Price
<b>Part 2</b>	<b>Routine Tests on Single Group 3KV DC Substations</b>				
1	Ondervalle (Tie)	ea	1		
2	Waterval onder	ea	1		
3	Airlie	ea	1		
4	Elandshoek	ea	1		
5	Alkmaar	ea	1		
6	Mayfern	ea	1		
7	Graniepoort	ea	1		
8	Kaapmuiden ( Tie)	ea	1		
9	Althorpe	ea	1		
10	Impala	ea	1		
11	Tenbosch	ea	1		
12	Krokodile	ea	1		
13	Legogote	ea	1		
14	Numbi	ea	1		
15	Kudu	ea	1		
16	Hazyview	ea	1		
17	Mkhuhlu	ea	1		
18	Ireagh	ea	1		
19	Rolle	ea	1		
20	Mhumbi	ea	1		
21	Acornhoek	ea	1		
22	Klaserie	ea	1		
23	Drakensig	ea	1		
24	Hoedspruit	ea	1		
25	Vienna	ea	1		
26	Brakspruitberg	ea	1		
27	Brakspruitberg	ea	1		
28	Palmloop	ea	1		
29	Olifants	ea	1		
30	Phalaborwa	ea	1		
<b>A</b>	<b>Subtotal for Single Group 3KV traction Substation =</b>			Page 68	<b>R</b>
<b>B</b>	<b>VAT (14% ) of A =</b>				<b>R</b>
<b>C</b>	<b>Gross Total (A+B) =</b>				<b>R</b>

## Contract Data Price List

Item	Description	Unit	Qty	Rate	Price
<b>Part 4</b>	<b>Routine Tests on 11KV distribution substations</b>				
1	Waterval boven	ea	1		
2	Nelspruit junction	ea	1		
3	Nelspruit Loco	ea	1		
4	Nelspruit station	ea	1		
5	Boulders	ea	1		
6	Komatipoort unit 1	ea	1		
7	Komatipoort unit 2	ea	1		
8	Hazyview	ea	1		
9	Klaserie	ea	1		
10	Hoedspruit	ea	1		
11	Phalaborwa	ea	1		
A	Subtotal for 3kV DC Tie station =		R		
B	VAT (14% ) of A =		R		
C	Gross Total (A+B) =		R		

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**Part C3:  
Scope of Work**

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## Contract Data

### Scope of Work

#### 2.0 DESCRIPTION OF WORK

Transnet reserves the right to award this tender as a whole or in portions.

- 2.1 **Commissioning tests:** The Contractor shall test all electrical protection equipment at all existing or newly built Signal and Distribution Supply, Traction Sub and Tie Stations in which relevant equipment has been replaced on an emergency repair or newly installed basis as follows:

**2.1.1 Current transformers:** Insulation test by 2.5 kV megger . Ratio (by primary injection at either rated current or a percentage hereof) and full magnetisation curve. Polarity tests where applicable.

**2.1.2 Protection relays:** Current Injection tests on all phases and to earth at all percentages i.e. at 125, 200, 400 and 600% of set value for distribution equipment and at 200 and 400% for traction equipment or secondary rated current noting tripping times and indications as indicated on relevant test sheets. Restricted Earth Fault and Duo Biased protection must be tested by the applicable voltage/current required.

Where Distribution Ringfeed systems are protected by Pilot Wire protection the SOLKOR /TRANSLAY relays must be tested by secondary injection to trip at the percentage values in the local and remote substations with a stability test by primary injection on one phase to earth or to a second phase, noting the milliamp current flow in the pilot wires.

**2.1.3 AC, DC Earth and Frame Leakage systems:** Insulation values to earth and between separate systems/zones by suitable earth and insulation meggers. Tripping current values by Primary injection for relevant zone/systems to be noted to give required tripping, indications and lockout. Systems shall be tested for possible parallel paths as well.

**2.1.4 Transformer protection:** Buchholtz relays to be tested by air injection/test trip noting trip level to give lockout and indication.

Oil and Winding Temperature Gauges to be tested by dial indication to give trip, indication and lockout as applicable. Where required a calibration test is to be done by heat simulation.

Pressure Relief Devices tested by test trip noting trip, lockout and indication.

Ratio test at all tap positions when required.

**2.1.5 Indicating meters:** By primary injection of Current and Voltage applicable.

**2.1.6 Insulation levels:** Pressure test on complete installation in the case of distribution panels and rectifiers in the case of traction substation.

**2.1.7 Main and auxiliary supplies failures:** Phase/AC fail relays to be tested and Battery undervoltage relay to be calibrated to trip and lockout all circuit breakers.

**2.1.8 3 kV Undervoltage Protection:** To be calibrated by HV DC primary injection.

**2.1.9 Rectifier Protection:** Overtemperature, diode indication and attenuation circuit protection to be verified by simulation tests.

**2.1.10 Wave filter equipment:** To be measured and calibrated

**2.1.11 Primary Circuit Breaker/Primary disconnects replacement:** To be tested strictly according to relevant commissioning sheet.

2.2 **Routine tests:** The Contractor shall test all electrical protection equipment at all existing Distribution Supply, Traction Sub- and Tie Stations as follows:

**2.2.1 Current transformers:** Magnetisation curve to be tested at a minimum of two points at kneepoint voltage as depicted on previous routine or commissioning test reports. If not according to commissioning values a full magnetisation curve must be done. If not within tolerances a ratio test must be performed to prove the integrity of the current transformer.

**2.2.2 Protection relays:** Current Injection Tests at 200 and 600/300 percent indicated on relevant test sheets of secondary rated current noting tripping times and indications. Where Distribution Ringfeed systems are protected by Pilot Wire protection the SOLKOR /TRANSLAY relays must be tested by secondary injection to trip at the percentage values in the local and remote substations with a stability test by primary injection on one phase to earth or to a second phase, noting the milliamp current flow in the pilot wires.

**2.2.3 AC / DC Earth and Frame Leakage systems:** Insulation values to earth and between separate systems/zones by suitable earth and insulation meggers. Tripping current values by Primary injection for relevant zone/systems to be noted to give required tripping, indications and lockout. Systems shall be tested for possible parallel paths as well.

**2.2.4 Transformer protection:** Buchholz relays to be tested by air injection/test trip noting trip level to give lockout and indication. Oil and Winding Temperature Gauges to be tested by dial indication to give trip, indication and lockout as applicable. Where required a calibration test is to be done by heat simulation.

Pressure Relief Devices tested by test trip noting trip, lockout and indication.

**2.2.5 Indicating meters:** By secondary injection of Current and Voltage applicable at full scale deflection. By exception the 4 kV DC indicating voltmeter must be tested by primary HV DC injection.

**2.2.6 Insulation levels:** Pressure test not required.

**2.2.7 Main and auxiliary supplies failures:** Phase/AC fail relays to be tested and Battery undervoltage relay to be calibrated to trip and lockout all circuit breakers.

**2.2.8 2 kV Undervoltage Protection:** To be calibrated by HV DC primary injection.

**2.2.9 Rectifier Protection:** Overtemperature, diode indication and attenuation circuit protection to be verified by simulation tests.

**2.2.10 Wave filter equipment:** To be measured and calibrated

2.3 The Contractor shall supply latest copy of calibration certificate of testing equipment.

2.4 The Contractor shall do testing for minor repair work and re-testing where faulty equipment is identified during the above testing period. (Transnet will supply all material required for these repairs).

2.5 The Contractor shall complete the test sheet as applicable and defects report as applicable for Routine Testing and Commissioning.

2.6 The technician/electrician who will assist during the contract as based in the relevant maintenance depot from where he will depart and accompany the contractor every morning.

2.7 A technician/electrician from Transnet will provide access to the substations and will and issue applicable work/test permits to isolate and earth all equipment before handing it over



for testing purposes. The contractor shall confirm the isolation and earthing applied as well as the work limits. No work shall be done in any substation without the presence of a Transnet representative.

- 2.8 The Contractor shall supply the Project Manager with test sheets and defects report per substation tested.
- 2.9 Transnet shall provide security where necessary for the duration of the contract.

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**Part C3:  
Works Information**

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## Contract Data

### Works Information

#### 2.0 Specifications

##### 2.1 South African National Standards:

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

##### 3.2 Transnet Freight Rail Specifications:

3.2.1 BBB 3620 version 5 3kV DC earthing arrangement – Traction Substation.

3.2.2 CEE-TBD-0007 Earthing arrangement for traction substations.

##### Relevant Electrical Test Report Sheets:

3.2.3 BBB0342 VER 2 Alternatively BBF 8999 VER 2 and BBF 9000 VER 2

3.2.4 BBB0343 VER 2 Alternatively BBF 9001 VER 2 and BBF 9295 VER 2

3.2.5 BBB0345 VER 2 Alternatively BBF 9296 VER 2

3.2.6 BBB0346 VER 2 Alternatively BBF 9296 VER 2 and BBF 9297 VER 2

3.2.7 BBB0347 VER 2

3.2.8 BBB0348 VER 2

3.2.9 BBC0521 VER 1 In accordance with Engineering Instruction G.018

##### 3.3 Constraints on how the Contractor Provides the Works

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

#### 4.0 Requirements for the programme

4.1 Programme of work : To be submitted by successful Contractor

4.2 Format : Bar chart

4.3 Information : How work is going to be executed and commissioned

4.4 Submission : Not Applicable

**5.0 Services and other things provided by the *Employer***

- 5.1 Transnet Freight Rail shall have an electrician/technical assistant available for isolation and the erection of barriers to live electrical equipment and issuing of work permits.
- 5.2 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.

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## Contract Data

## Site Information

The works shall be performed at **Various Traction substations at Nelspruit depot**. Refer from pricing list

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**Electrical Test Laboratory**  
**Traction Substation**  
**Test Sheet**



**TRANSNET**  
*freight rail*

Location / Name:

Date:

Nature:

Unit:

4 kA DC Ammeter				4 kV DC Voltmeter			AC Earth leakage		
Shunt:		A	mV	Indication	Sub standard	% Error	CT Ratio:		
Indication	mV	Amps	% Error	1000 V			Volt	Amp	
500 A				2 000 V					
1 000 A				2 500 V					
2 000 A				3 000 V					
2 500 A				3 500 V					
3 000 A				4 000 V					
<b>Main O/L:</b>				<b>Aux. O/L:</b>			<b>Relay Make &amp; Type:</b>		
CT Ratio:				CT Ratio:			Relay set at:		
V	R Amp	Y Amp	B Amp	V	R Amp	Y Amp	B Amp	Relay setting:	
<b>Relay Make &amp; Type:</b> _____				<b>Relay Make &amp; Type:</b> _____			Relay checked for parallel path:		
<b>Full Load:</b> = _____ A				<b>Full Load:</b> = _____ A			<input type="checkbox"/> Yes / <input type="checkbox"/> No		
<b>Thermal O/L.</b>				<b>Thermal O/L.</b>			Connect to AC E/L:		
Relay was tested by prim. / sec. / Tw.				Relay was tested by prim. / sec. / Tw.			Main X/F tank:		
Injection to operate at:				Injection to operate at:			OCB structure:		
x (FL) = _____ Amp.				x (FL) = _____ Amp.			CT's structure:		
Phase	R	Y	B	Phase	R	Y	B	Aux. X/F fence:	
Time (sec)				Time (sec)				Relay trip and lock-out OCB:	
Current Set.				Current Set.				<input type="checkbox"/> Yes / <input type="checkbox"/> No	
Time Set.				Time Set.				Indication: <input type="checkbox"/> Yes / <input type="checkbox"/> No	
<b>Instantaneous O/L.</b>				<b>Instantaneous O/L.</b>			Tested By: _____  Approved By: _____  Date: _____		
Relay was tested by prim. / sec. / Tw.				Relay was tested by prim. / sec. / Tw.					
Injection to operate at:				Injection to operate at:					
x (FL) = _____ Amp.				x (FL) = _____ Amp.					
Phase	R	Y	B	Phase	R	Y			B
Time (sec)				Time (sec)					
Current Set.				Current Set.					
Time Setting				Time Setting					
Relay Trip OCB				Relay Trip OCB					
Indication				Indication					
<b>Bucholz Relay</b> cc				<b>Bucholz Relay</b> cc			Date: _____		
Relay trip, lock-out OCB:				Relay trip, lock-out OCB:					
Indication:				Indication:					
<b>Temperature Relay</b>									
Oil °C			Winding °C						
Relay trip, lock-out OCB: U/B				Relay trip, lock-out OCB: U/B					
Indication				Indication					

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**Electrical Test Laboratory**  
**Traction Substation**  
**Test Sheet**



EARTH & INSULATION RESISTANCE			NAME:			
EARTH RESISTANCE:	Measure	Acceptable	DATE:			
Test spike		<2000 Ω	NATURE:			
Test spike - Sub earth		<5 Ω				
Test spike - Rail		>5 Ω				
Test spike - DC E/L		>25 Ω	<b>DC. EARTH LEAKAGE RELAY</b>			
Test spike - Neg. busbar		>3000 Ω	Make & Type:			
Test spike - RUA AC E/L		>10 Ω	Relay operate at:			
Test spike - RUB AC E/L		>10 Ω	Relay Setting:			
Test spike - RUC AC E/L		>10 Ω				
Test spike - Track switch earth		<5 Ω				
INSULATION RESISTANCE:			Checked for parallel path:			
DC. E/L – Sub. Earth		>25 Ω				
DC. E/L – Neg. Busbar		>3000 Ω	Connected to DC. E/L	RUA	RUB	RUC
DC. E/L – Rail		>30 Ω	Rectifier frame			
DC. E/L – RUA AC E/L		>35 Ω	Reactor frame			
DC. E/L – RUB AC E/L		>35 Ω	Wall pushing plate			
DC. E/L – RUC AC E/L		>35 Ω	Control panels			
Sub. Earth – Neg. busbar		>3000 Ω	Wavefilter room earth			
Sub. Earth - Rail		>5 Ω	Aux. X/F starpoint			
Sub. Earth – RUA AC E/L		>10 Ω	Battery charger			
Sub. Earth – RUB AC E/L		>10 Ω	Telecontrol panel			
Sub. Earth – RUC AC E/L		>10 Ω	Undervoltage relay			
Neg. Busbar - Rail		>3000 Ω	Track breaker cells			
Neg. Busbar – RUA AC E/L		>3000 Ω	Checker plates			
Neg. Busbar – RUB AC E/L		>3000 Ω	Tubing in sub.			
Neg. Busbar – RUC AC E/L		>3000 Ω	Operation of relay results in:			
Rail – RUA AC E/L		>15 Ω	Relay L/O. OCB.			
Rail – RUB AC E/L		>15 Ω	Relay L/O U/B.			
Rail – RUC AC E/L		>15 Ω	Relay L/O T/B.			
RUA AC E/L - RUB AC E/L		>20 Ω	Fault indication			
<b>3 kV DC UNDERVOLTAGE RELAY</b>			<b>110 V BATTERY UNDERVOLTAGE</b>			
RUA		RUB				
Make & Type:		Make & Type:		Make & Type:		
Pick-Up:	V	Pick-Up:	V	Pick-Up: V		
Drop-Out:	V	Drop-Out:	V	Drop-Out: V		
Drop-Out delay:	Sec.	Drop-Out delay:	Sec.			
Relay drop-out results:		Relay drop-out results:		Relay drop-out results:		
Trip all T/B		Trip all T/B				
Counter operation		Counter operation		Trip and lock-out of OCB:		
Fault indication		Fault indication				
<b>WAVE FILTER</b>			Check zero voltage between:			
RUA		RUB				
Harmonic	Cap (uf)	Induction(mH)	Harmonic	Cap (uf)	Induction(mH)	Battery positive - earth:
6			6			
12			12			Battery negative - earth:
18			18			
24			24			
DISCHARGE RESISTOR :			DISCHARGE RESISTOR :			
SERIES RESISTOR :			SERIES RESISTOR :			
FUSE TESTED :			FUSE TESTED :			

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TESTED BY

APPROVED BY

DATE

**Electrical Test Laboratory**  
**E L & P Substation**  
**Test Sheet**



**TRANSNET**  
*freight rail*

NAME :											
DESIGNATION :					OCB No. :						
PANEL NO. :					DATE :			NATURE : R/C			
<b>D.M.I.T. RELAY.</b>					<b>SOLKOR R/TRANSLAY</b>						
CT RATIO :					CT RATIO :						
V	R Amp		Y Amp		B Amp		V	B Amp			
POLARITIES :					PILOT CABLE						
O/L SETTING : A/%					T.M.S. :						
E/L SETTING : A/%					Insulation resistance :						
RELAY TESTED PRIM/ SEC/ TW. INJECTION					T1 - E :						
MULTIPLE	O/L R ph.		O/L Y ph.		O/L B ph.		E/L				
Of P.C.S.	A	Sec	A	Sec	A	Sec	A	Sec	T1 - T2 :		
2											
4											
6											
					<b>OVERALL FAULT SETTING</b>						
					FAULT	T.W./	A	B	AC	OPERA-	
						Sec. A	mA	mA	mA	TION %	
<b>INSTANTANEOUS RELAY :</b>					R - E						
O/L Setting					E/L Setting						
R ph. Trips at A					Y - E						
Y ph. Trips at A					B - E						
Relay trips at A					R - Y						
B ph. Trips at A					B - Y						
BUCHOLZ RELAY					R - B						
Relay trip & lock-out OCB. Give indication.					CURRENT BETWEEN			RELAY OUTPUT			
TEMPERATURE RELAY					R - E	1.10A	V				
Relay trip OCB. Give indication.					Y - E	1.40A	V				
<b>FRAME LEAKAGE RELAY:</b>					B - E	2.00 A	V				
V	1 A	2 A	3 A	ZONE	1	2	3	R - Y	4.50 A	V	
TYPE					B - Y					4.50 A	V
PLUG					R - B					2.25 A	V
P / Amp					RELAY TYPE :						
TRIPS					SETTING :						
RATIO					<b>RESISTANCE MEASUREMENTS</b>						
					ZONE	1	2	3			
					E						
TEST SPIKES :					Ohm	1					
EARTH MAT :					Ohm	2					

..... TESTED BY ..... APPROVED BY ..... DATE .....



