



TRANSET FREIGHT RAIL , a division of

TRANSNET SOC LTD

Registration Number 1990/000900/30

[Hereinafter referred to as **Transnet**]

REQUEST FOR QUOTATION [RFQ] No CRAC-KGG-19048

FOR THE PROVISION OF 3kv DC TESTING OF SUBSTATION FOR KRUGERSDORP DEPOT.

FOR DIRECTIONS CONTACT: SIDWELL SELITI 083 272 2647

ISSUE DATE : 28 AUGUST 2015
BRIEFING DATE : 04 SEPTEMBER 2015 (COMPULSORY MEETING)
BRIEFING TIME : 10:00
VENUE : MILLSITE DEPOT IN KRUGERSDORP
CLOSING DATE : 15 SEPTEMBER 2015
CLOSING TIME : 10:00
OPTION DATE : 29 JANUARY 2016

**PLEASE BRING THE VALID DOCUMENT ON THE DAY OF BRIEFING,
ALSO MAKE SURE THAT YOU BRING YOUR SAFETY SHOES AND
REFLECTIVE VEST ON SITE.**

**PLEASE NOTE THAT IF YOU DON'T BRING VALID TENDER DOCUMENT,
SAFETY BOOTS AND REFLECTIVE VEST YOU WILL NOT BE ALLOWED IN
A BRIEFING SESSION AND TO GO ON SITE.**

**ON CLOSING DATE PLEASE SUBMIT TWO (2) DOCUMENTS ORIGINAL &
COPY IN ONE ENVELOPE IT MUST BE INSCRIBED ON THE OUTSIDE
WITH THE TENDER NUMBER AND THE CLOSING DATE.**

RFQ for the Provision of 3kv DC Testing of Substation for Krugersdorp Depot

SECTION 1

FOR THE PROVISION OF 3kv DC TESTING OF SUBSTATION FOR KRUGERSDORP DEPOT.

NOTICE TO BIDDERS

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

METHOD: [post and/or courier]

CLOSING VENUE: The Secretary, Transnet Freight Rail, Acquisition Council, Tender Box on the Ground Floor, Inyanda House 1, 21 Wellington Road, Parktown

1 Responses to RFQ

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

2 Broad-Based Black Economic Empowerment (B-BBEE)

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

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

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

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

3 Communication

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

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

Name: Jabulile Malindi

Email: Jabulile.Malindi@transnet.net

Telephone: 011 584 1071

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

RFQ for the Provision of 3kv DC Testing of Substation for Krugersdorp Depot

Telephone 011 544 9486

Email: Prudence.Nkabinde@transnet.net

4 Legal Compliance

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

5 Changes to Quotations

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

6 Pricing

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

7 Prices Subject to Confirmation

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

8 Binding Offer

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

9 Disclaimers

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

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

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

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

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

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

10 Specification/Scope of Work

Description: FOR THE PROVISION OF 3kv DC TESTING OF SUBSTATION FOR KRUGERSDORP DEPOT.

<p>Transnet urges its clients, suppliers and the general public to report any fraud or corruption to</p> <p>TIP-OFFS ANONYMOUSLY 0800 003 056</p>
<p>FOR THE PROVISION OF 3kv DC TESTING OF SUBSTATION FOR KRUGERSDORP DEPOT.</p>
<p>CLOSING VENUE: Tender Box, ground floor, Inyanga House 1, 21 Wellington Road, Parktown</p> <p>CLOSING DATE & TIME: 15 September 2015 AT 10:00</p> <p>VALIDITY PERIOD: 29 January 2016</p>

TESTING OF 3KV DC SUBSTATION FOR KRUGERSDORP DEPOT

"PREVIEW COPY ONLY"

RFQ for the Provision of 3kv DC Testing of Substation for Krugersdorp Depot



LIMITED
(REGISTRATION NO. 1990/0009) (Pty) Ltd
TRADING AS TRANSNET FREIGHT RAIL

INFRASTRUCTURE MAINTENANCE (ELECTRICAL)

PROJECT SPECIFICATION

TESTING OF PROTECTION EQUIPMENTS AT VARIOUS 3kV DC
TRACTION SUBSTATIONS: FROM HARDEKLIP TO TATODI, AND
HARRISBURG TO SHERIDANSTREE.

"PREVIEW COPY ONLY"

RFQ for the Provision of 3kv DC Testing of Substation for Krugersdorp Depot

Specifications:

- 1). The complete testing of all electrical protection relays, Current Transformers, Voltage Transformers and other related protection equipment's at 3KV DC traction substation between Hardekliip and Tatodi, Harrisburg and Sheperdree under the control of Krugersdorp substations.
- 2). On completion of tests, The Contractor will be required to fill in test sheet per substation as supplied in the annexure below. The Contractor must attach test sheet report in the test book of substations and bring other copy to the Depot for filing purposes. No payment will be made to Contractor without the full report of tests and defects. The Contractor must submit the invoice for the completed substation at Krugersdorp Depot for payment. **Travelling and accommodation cost should be included in the total quotation for this work.**
- 3). The Contractor must have previous knowledge of 3kV DC substation with Transnet.
- 4). The Contractor must be in possession of required testing instruments for both DC/AC tests. Transnet personnel will visit all workshops to verify the availability of the equipment required before the contract is awarded. These will be clarified during site inspection meeting. **Transnet will provide testing equipment's to the Contractor in case they do not have testing equipment's (provided they understand how to operate equipment's), testing equipment's will always travel with the responsible Transnet Technician after or before testing of substation. No Contractor will be allowed to travel with testing equipment's. Contractor will be responsible for repairing of damaged equipment's during testing.**
- 5). Contractors must provide a copy of the latest calibration certificates of all testing equipment's. Refer to the attached Transnet specification included in this document for intervals calibration/verification of testing equipment's (SBD5294 Version 1).
- 6). Tenders are required to complete the price and time schedules for the activities listed below. Failure to complete these schedules in full will result in the offer not being considered.
- 7). Nature of work requires that personnel performing this work shall be authorised in terms of Transnet's Electrical Safety Instructions.
- 8). A Technician from Transnet will provide access to the substations and will arrange for Isolation to all equipment before handing it over for testing purposes. No work shall be done in any substation without the presence of a Transnet representative.
- 9). All technical related queries must be referred to the manager of the contract.
- 10). The Technician who will assist during the contract is based in Krugersdorp Depot from where he will depart and escort the contractor every morning. Any uncertainties will be discussed at the site meeting.
- 11). Contractor will be inducted by Transnet safety rep and electrical Safety officer before commencement of work. No work will commence without safety Induction.

RFQ for the Provision of 3kv DC Testing of Substation for Krugersdorp Depot

Equipments Required for testing and measuring:

Refer to Transnet specifications BBD5294.

12). The following testing should be performed:

Traction Substation

- a). BBF9294 version 3.
- b). BBB9295 version 3.
- c). BBD9000 version 3.
- d) BBD9991

Contractor Documents

1. Contractor must provide a copy of the appointment of the Contractor's Responsible competent Person, on the Contractors' letterhead.
2. Contractor must provide a copy of the "declaration assuming duties and obligations as Chief Executive Officer.
3. The Contractors's job safety assessment is to be carried out and presented to the Technical officer.
4. Contractor must provide a copy of his Health and Safety plan and implement it.
5. The Contractor must provide copies of records proving that his personnel have undergone the prescribed safety training and awareness.
6. The Contractor must provide a copy of his fall Protection plan.
7. The Contractor must provide a copy of the "Health and Safety plan" as well as the above documentation on site for scrutiny within 21 days, shall implement and manage according to the plan and audit the plan. On completion of the contract the Contractor shall handover the file to the Maintenance Manager.



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**SCHEDULE OF REQUIREMENTS
EQUIPMENT TO BE TESTED IN VARIOUS SUBSTATIONS**

A. The following equipment needs to be tested at all double unit substations.

	Double unit substation Test sheet BBB0342 + BBB0343 { Earth & Insulation Resistance { 3 kV DC Under Voltage Relay { Wave Filter { DC Earth Leakage Relay { 110V Battery Under V { 4 kA DC Ammeter { Main Overload Protection { Aux Overload Protection { 4 kV DC Voltmeter { AC Earth Leakage { Transformer Protection		
	DOUBLE UNIT SUBSTATION	TESTING PERIOD OFFERED	PRICE COMPLETE (excluding VAT)
A1	HARDEKLIP		R
A2	BUCKINGHAM		R
A3	GROMOPONT		R
A4	VENTERSDORP		R
A5	RATSEGAE		R
A6	MAKOKSKRAAL		R
A7	GATHEP		R
A8	TATADI		R
A9	HAARISEBURG		R
A10	LEECOBOS		R
A11	MAKWASSIE		R
A12	DRIERUITERS		R
A13	ATAR		R
A	SUB TOTAL		R

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B. The following equipment needs to be tested at all distribution substation.

Single unit substation Test sheet BBB0342 + BBB0343 { Earth & Insulation Resistance { 3 kV DC Under Voltage Relay { 110V Battery Under V { 4 kA DC Ammeter { Main Overload Protection { Aux Overload Protection { 4 kV DC Voltmeter { AC Earth Leakage { Transformer Protection			
	DISTRIBUTION SUBSTATION	TESTING PERIOD OFFERED	PRICE COMPLETE (excluding VAT)
B1	STRYDERS		R
B2	WILDHOEN		R
B3	SHERPERDSTREE		R
B	SUB TOTAL		R
A-B	TOTAL FOR THE ABOVE TESTING		R

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The works shall be performed at 3kV DC TRACTION SUBSTATIONS: FROM HARDEKLIP TO TATODI, AND HARRISBURG TO SHERPERDSTREE.

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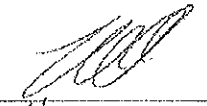

BBD5294 Version 1



INFRASTRUCTURE ENGINEERING ELECTRICAL DEPARTMENT

INSTRUCTION

CALIBRATION AND VERIFICATION OF TEST AND MEASURING EQUIPMENT

Author:	Senior Engineer	L Webb	
Approved:	Principal Engineer	C du Toit	
Date:			16 October 2008

Accession Restricted To:

Transnet Freight Rail
Transnet and Relevant Third Parties
Unrestricted

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INFRASTRUCTURE

Calibration of Test and Measuring Equipment.

1. SCOPE

This document sets out the requirements for the calibration / verification of measuring equipment used by Infrastructure Electrical staff in terms of policy RSE/TE/POL/005 (available on ProjectWise) for calibration of measuring equipment used in Transnet Freight rail.

Abbreviations

SANAS -- South African National Accreditation System

VIT -- Very Important Technology

2. INTRODUCTION

Certain test and measuring equipment has to be calibrated within prescribed limits to ensure that when these are used to adjust other equipment, the necessary tolerances are being adhered to to ensure safety and the correct working of equipment.

In the Electrical Protection environment a very high accuracy of the measurement equipment (e.g. multimeters, injection sets etc) is required to ensure the safe working of the equipment.

Equipment used by the VIT Tech Support Engineering Technicians also requires a high degree of accuracy.

Multimeters and earth testers used by maintenance staff do not require such a high accuracy.

The manufacturers' specifications cannot be improved upon and it is important that the correct model of test equipment must be used for the correct purpose.

In the O&M maintenance environment the need for measuring instruments is mostly of a mechanical force and wire geometry measurement nature.

3. VERIFICATION AND CALIBRATION

Verification is the checking of the functional performance and accuracy in terms of a specification against a known standard or checked with a (calibrated) instrument known to be accurate.

See Annexure 1 for method of verification of multimeters.

Calibration is a set of operations that will establish the accuracy of equipment under specified conditions. It also involves the setting or adjustment of the equipment to its original design standard if required. A SANAS accredited company must do the calibration.

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Each piece of equipment will have its own design accuracy (typically ranging from 0.5% to 10%), depending on the nature of the equipment and its quality. Equipment cannot be calibrated to an accuracy greater than its design value.

4. EQUIPMENT AND INTERVALS OF CALIBRATION / VERIFICATION

Equipment must be verified or calibrated as a minimum as per the list below. In addition to these specified intervals, equipment should be verified or calibrated in the event of repairs or if it is dropped or if the vehicle carrying the equipment was involved in an accident. Safety critical equipment can be verified in-between calibrations to establish whether the equipment is still within manufacturers specification.

Equipment	Verification / Calibration	Interval
30 / 40KV AC Tester (Hi Potential Tester)	C	Y
4 / 5 Kv DC Tester (Hi Potential Tester)	C	Y
6.6 / 11Kv Phase Tester	C	Y
Ampmeter - A.C.	C	Y
Ampmeter - mA, D.C.	C	Y
Analog Multimeter	C	Y
Analogue Null Balance Earth Resistance Tester	C	Y
Battery Load Tester	C	2Y
Cable Fault Tracer	C	Y
Calibrating Set (Track Generators)	C	Y
Clip on Ampmeter (Analogue)	C	2Y
Clip on Ampmeter (Digital)	C	2Y
DC Injection Set (200A) to test DC E/L	C	Y
DC 100V-Volt Injection Set	C	Y
Digital Earth Resistance Tester	C	Y
Digital L/R meter	C	Y
Digital Multimeter Elec Protection / Hi Tech ET	C	Y
Digital Multimeter Electricians	V	Y
Digital PSC/Loop Tester	C	Y
Digital Thermometer	C	Y
Digital Timer	C	Y
Dranetz Power Guide	C	2Y

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Dual DC power supply 0 ~ 120V : 3A	C	Y
Earth leakage tester	C	2Y
EL / CB Polarity Tester	C	2Y
Graphical multimeter	C	Y
Infra Red Thermometer	C	2Y
Insulation Tester 500V, 1kV, 5kV, 10kV	C	2Y
Live Line Tester	C	Y
Luxmeter	C	2Y
Milli Voltmeter DC	C	Y
Oscilloscope	C	Y
Oscilloscope (Storage)	C	Y
Phase Rotation Meter (LT)		Y
Power Quality Analyzer	C	Y
Primary Injection set 1000A / 500A	C	Y
Regulated DC power supply 0 ~ 24V : 3A	C	Y
Scope meter (Fluke)	C	Y
Secondary Injection Set	C	Y
Signal Generator	C	Y
Supa Rule	C	Y
Three Channel Timer	C	Y
Voltmeter - A.C.	C	Y
Voltmeter - D.C.	C	Y
Voltmeter - HiV.D.C.	C	Y
Watt Meter	C	Y
Wheatstone Bridge	C	Y
ZFB Test Set	C	Y

OHTE:

Dynamometer	C	2Y
Hydraulic wire tensioner (to specification BBB7864)	C	Y
Wire temperature gauge	C	Y
Micrometer	C	Y
Wire tension meter (e.g. "PIAB")	C	Y

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Height and stagger gauge (ultrasonic, laser, etc)	C	Y
Analogue Multimeter (for mast base insulation)	C	Y

C = calibration V = Verification

Y = Yearly 2Y = Every 2 years

5. TRACEABILITY OF CALIBRATION**5.1 Unique identification of measuring equipment**

An assets register or inventory must exist for all measuring equipment. The measuring equipment must be uniquely identifiable by means of either a serial number or must be marked by means of a specially assigned unique number, for example the assets register number. Where measuring equipment items are identified by means of a special numbering system, it must be ensured that duplication of numbers is prevented.

Equipment that has been calibrated externally or verified in-house by Transnet Freight Rail must be marked with a label indicating the calibration / verification date and organisation that performed the calibration. All calibrated / verified equipment must have a calibration certificate.

5.2 Documentation system

A documentation system must be maintained by the Depot / Department to ensure that verification and calibration of test and measurement equipment can be traced and verified. All calibration related documentation must be kept in the Calibration file (Calibration certificate, Verification data, etc.). The calibration file must be integrated into the Depot's / Department's Quality system (NOSA, ISO 9001).

5.3 Records

Each item of equipment shall have an asset file with the following information:

- Equipment Type e.g. Multimeter
- Make
- Model
- Serial Number or Unique Number
- Asset Number
- Date Purchased
- Supplier
- Location -- Depot or Sub depot
- Contact Person
- Contact Phone number
- Instrument or Standard - will be a standard if used for verification.

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In use - yes or no

Purpose – e.g. used by electrician or used for Electrical Protection or used for electronic repairs etc.

Last repair date

Calibration / Verification schedule Date

Calibration laboratory

6. COMPETENCIES OF STAFF

Staff performing in-house verification shall be competent to do so using approved procedures.

All staff using measuring equipment shall be competent to use the measuring equipment and to interpret the measurements.

A record of the training of the staff must be kept in the calibration file.

7. AUDITS OF CALIBRATION SYSTEM**7.1 Internal Audits**

Depots or Departments using measuring or test equipment should conduct internal audits to verify that it conforms with the requirements of this policy and any other codes of practice as applicable to specific types of measuring and test equipment. Internal audit schedules should be planned taking into consideration the importance of the depots to be audited as well as the results of previous audits. Audit results must be recorded and filed in the Depot or Department's Calibration file. Where non conformances are found, the relevant piece of equipment must be repaired to standard or scrapped if repairs are not possible or economically viable. If required, this will be done in conjunction with the support of the VIT Metrology.

7.2 Technical Audits

Technology Management will audit on an annual basis all Depots or Departments which use measuring or test equipment to verify conformance to this policy as well as conformance to specific codes of practice for measuring or test equipment.

An approved checklist, based on the requirements of this policy, will be used by Technology Management to perform the in-house calibration system audit.

8. CALIBRATION SYSTEM SUPPORT TO BE PROVIDED BY TECHNOLOGY MANAGEMENT

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The VIT Owner Metrology within the Technology Management Section of Engineering and Technology is responsible for calibration system support to Depots and Departments that use measuring equipment

For a full description of the support provided, refer to clause 9 of RSE/TE/POL/005

9. ANNEXURES:

Annexure 1 – Calibration of voltage, current and resistance meters.

VERIFICATION OF VOLTAGE, CURRENT AND RESISTANCE METERS.

Voltage measurements

A number of meters (maximum of three) can be coupled in parallel with the reference meter and compared simultaneously.

Current measurements

A number of meters (maximum of three) can be coupled in series with the reference meter and compared simultaneously.

Resistance measurements

During resistance tests the meters must be tested separately to ensure that they do not influence one another.

TEST EQUIPMENT REQUIRED

One frequency generator, 20 Hz to 1 MHz, 0 to 7V(RMS) 120mA

One adjustable AC supply (Variac) 0 to 220V, 10A.

Two adjustable DC supplies, 0-30V, 5A

Diode Bridge and capacitor (to couple to variac for 60 to 220V DC)

Resistors (various values)

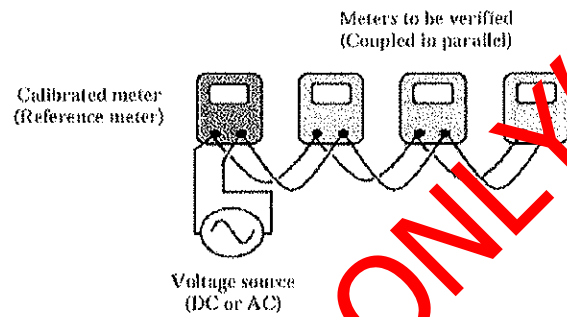
REQUIRED ACCURACY

The accuracy of the reference meter should be four times more accurate than the meters to be verified. The accuracy of the verified meters should be within the manufacturer's specified accuracy.

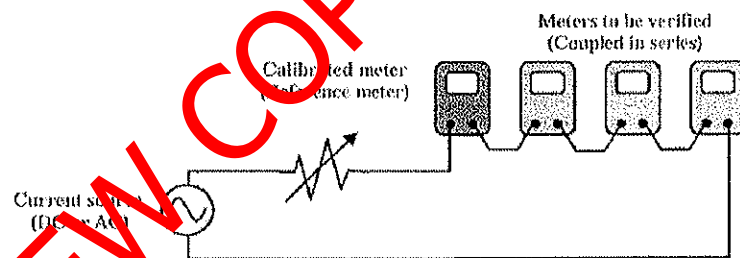
If the meters do not comply with the manufacturer's specification, they should be sent to the manufacturer for repair / maintenance and calibration.

METER CONNECTIONS

1. Voltage and frequency measurements



2. Current measurements



Documentation

Verification information and results must be filed in the equipment asset file or Calibration file. A copy of the procedure must be kept in the calibration file.



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[illegible]



RFQ for the Provision of 3kv DC Testing of Substation for Krugersdorp Depot

Infrastructure Engineering

BBD9991 Version 1

TEST CERTIFICATE				TRANSNET <i>bringing real</i>																																																																																	
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(c) inj. (Prim.) = _____ 75A ac e/l																																																																																					
TESTED BY: _____				DATE: _____																																																																																	
APPROVED: _____				DATE: _____																																																																																	

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RFQ for the Provision of 3kv DC Testing of Substation for Krugersdorp Depot

Rail Network Maintenance		BBF9294 Version 3	
3 kV DC Traction Traction Tie Station Test			
3 kV and Battery Undervoltage Protection. KCM Meter			
DC Earth Leakage Protection. Earth and Insulation Measurements.			
Substation:		Routine : Commissioning:	
3kV DC Undervoltage Relay Tested by applied voltage Relay tested to pick up at _____ volts and drop out at _____ volts tripping HSCB's with lockout and flag indication.			
Battery Undervoltage Relay Tested by applied voltage Relay tested to pick up at _____ volts and drop out at _____ volts tripping HSCB's with lockout and indication			
DC Earth Leakage Protection Tested by DC current injection Relay operates at _____ amps tripping PCB and HSCB's to lockout with flag indication from the following:			
Chequer plates	HSCB Cells	Control Panels	UVR
		Battery charger	Telet control Panel
4 kV DC Voltmeter Standard: Indication % Error 1000 2000 3000 4000			
Earth and Insulation Measurements			
Soil Condition:	Wet	Dry	Filled
Earth Measurements		Gravel	Clay
Resistance between spikes		Measured	Acceptable
Test Spike to Tie station Earth		>2000 Ω	Tie Station Earth to Negative
Test Spike to Tie station Negative		<5 Ω	Tie Station Earth to DC Earth Leakage
Test Spike to Tie station DC Earth Leakage		>3000 Ω	Tie Station Earth to Rail
Test Spike to Rail		>25 Ω	Negative to DC Earth Leakage
Test Spike to Track Switch Earth		>5 Ω	Negative to Rail
		<5 Ω	DC Earth Leakage to Rail
Tested by: Name:		Witnessed by: Name:	Signature:
			Date:



RFQ for the Provision of 3kv DC Testing of Substation for Krugersdorp Depot

Infrastructure Engineering

BBD9991 Version 1

TEST CERTIFICATE

TRANSNET
Power and Light

SUBSTATION: _____ **DATE:** _____

MAIN/AUX TRANSFORMER PROTECTION

RELAY TYPE: FEEDERGAURD FP 04

MAIN CT'S	R Phase	Y Phase	B Phase
Marked	A	A	A
Measured	A	A	A
Polarities			
AC E/L CT	marked: =	meas: =	

MAG. CURVES			
Main	R	Y	B
Volts	V	V	V
Amps	A	A	V
AC E/L	V	A	

Fixed Settings:

I > XT : Time multiplier (xt) = _____ la, lb, lc

I > CURVE : Extremely inverse (EI) characteristic curve - EI la, lb, lc

I >> XT : 0.05 la, lb, lc

I >> CURVE : Definite Time Delay (DTL) characteristic curve la, lb, lc

Io XT : 0.05 Io

Io CURVE : DTL Io

Calculated settings: "Example"

CT = 150/5 & FL of trafo = 136.6(p) @ 400(s) Amps

Setting (a) I > = 2xFL / CT Primary = $2 \times 136.6 / 150 = 1.82$ or 182 %
Therm. O/I * 182 % correspond to 2 x transformer full load.
nearest **setting = 1.8**
(a) inj. (sec) = 2XFull Load = 27.2 Amps (P) = **9.10 Amps (S)**

Setting (b) I >> = 3.6xFL / CT Primary = $3.6 \times 136.6 / 150 = 3.642$
Inst. O/I set relay at **3.0** (nearest you can get)
(b) inj. (sec) = 3.6 x 1.6 = **18.4 Amps (S)**

Setting (c) Io = 75 / CT Primary = $75 / 100 = 0.75$ CT Ratio = 100/5
AC E/L set relay at **0.75** (nearest you can get)
(c) inj. (Prim.) = 5% + 75A = **78.75 Amps (P)**

TEST RELAY BY PRIM/SEC/T/W INJECTION AS FOLLOWS:

Calculated settings:

C	Ratio	Main o/I	=
CT Ratio	AC E/L	=	
Fl to F/L	=	A(prim.)	A(sec.)
I > = 2 x fl / ct primary =			
Setting (a) =			(a)
I >> = 3.6 X fl / ct primary =			
Setting (b) =			(b)
Io AC E/L = 75 / ct primary =			
Setting (c) =			(c)
(a) inj. (sec) = 2 x =	A	thermal	
(b) inj. (sec) = 3.6 x =	A	instant.	
(c) inj. (Prim.) =	75A	ac e/l	

NB. Blockin inputs disabled.					
	2X F/L	%	R PHASE	Y PHASE	B PHASE
A	Trip Time:	s	s	s	s
	Trip OCB	Yes/No	Yes/No	Yes/No	Yes/No
	Reset	10 min	10 min	10 min	10 min
3 X F/L	%	R PHASE	Y PHASE	B PHASE	
A	Trip Time:	s	s	s	s
	Trip OCB	Yes/No	Yes/No	Yes/No	Yes/No
3.6 X F/L	%	R PHASE	Y PHASE	B PHASE	
A	Trip Time:	m/s	m/s	m/s	m/s
	Trip OCB	Yes/No	Yes/No	Yes/No	Yes/No
AC E/L	INJECT 78.75 AMPS	PRIMARY INJECTION			
A	Trip OCB	Yes/No	GIVING INDICATION		
RELAY:	L/O OCB	Yes/No			

TESTED BY: _____ **DATE:** _____

APPROVED : _____ **DATE:** _____



RFQ for the Provision of 3kv DC Testing of Substation for Krugersdorp Depot

Infrastructure Engineering

BBD9990 Version 1

Electrical Test Laboratory

Traction Substation Rectifier Tests

Test Sheet

TRANSNET
freight rail

Location / Name:

Date:

Nature:

Unit:

4 kA DC Ammeter				4 kV DC Voltmeter			Fan control - Current Monitor		
Shunt:		A	mV	Indication	Sub standard	% Error	Make & Type:		
Indication	mV	Amps	% Error	500 V			Shunt:	A	mV
500 A				1000 V			300 Amps =		mV
1000 A				1500 V			Simulate Current control (inject)		
2000 A				2000 V			Fans start at:	600 Amps	
3000 A				3000 V			Relay setting:		
4000 A				4000 V					Yes / No

Attenuation fail protection

Test Attenuation fail protection by operating both main switches to trip and lockout Substation giving indication Yes / No

Fan fail protection

Test Fan fail protection by switching fan control CB off in panel to simulate fan failure to trip and lockout Substation giving indication Yes / No

Diode fail protection

Test Diode fail by removing test lead (optic fibre) under load conditions Rect. Unit Substation trip and give lockout with indication Yes / No

Rectifier fan control - temp sensor

Test fan control by removing optic fibre on the 50 degree pot to start fans Yes / No

Rectifier over temp protection - temp sensor

Test Rectifier overtemp protection by removing optic fibre on the 80 degree pot to trip Substation giving indication Yes / No

Pressure test Rectifier Unit 10.5kV for one minute

- Remove Primary and Secondary connections from Rectifier Unit
- Remove all 110v DC and 220/380v AC supplies connected to Rectifier
- Remove both Attenuation fail fuses and short big Caps out with binding wire
- Remove Potential divider fuse for KV meter and disconnect KV & KA meter wires
- Remove all earthing cables connected to Rectifier Unit frame
- Short all phases, Positive busbar and Negative busbar together with binding wire
- Connect Hi Pot set to all shorted connection and Rectifier Frame
- Pressure test Unit at 10.5 Kv for one minute Yes / No
- Remove all shorts and connect all fuses, plugs, cables and busbars

Tested By:

Approved By:

Date

RFQ for the Provision of 3kv DC Testing of Substation for Krugersdorp Depot

SECTION 2**EVALUATION CRITERIA AND RETURNABLE DOCUMENTS****11 Validity Period**

Transnet desires a validity period of 90 [ninety] Business Days from the closing date of this RFQ.
This RFQ is valid until 29 January 2016.

12 Disclosure of Prices Quoted

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

YES ☐ NO ☐

13 Returnable Documents

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

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

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

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

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

14 Evaluation Criteria

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

Step 1: Administrative responsiveness - Completeness of response and returnable**Documents:-**

- Valid Letter of Good Standing.
- Delivery period

Step 2: Substantive responsiveness (Mandatory)

- Valid Electrical Certificate or equivalent Certificate of testing of 3kv DC Test of substation
- Risk and Safety Plan

Step 3: Functionality/ Technical

- Compliance to specifications - (Clause by clause declaration form)



RFQ for the Provision of 3kv DC Testing of Substation for Krugersdorp Depot

Bidders must obtain minimum threshold of 100% on functionality in order for them to go for Pricing and BEE Stage. Bidders who failed to obtain 100% on Functionality will automatically be disqualified.

Phase 3: COMMERCIAL (80/20 in respect of price and preference claimed points)

Pricing and price basis [firm] - whilst not the sole factor for consideration, competitive pricing and overall level of unconditional discounts¹ will be critical

Mandatory Returnable Documents	Submitted [Yes or No]
SECTION 4 : Quotation Form/ Pricing	

b) In addition to the requirements of section (a) above, Respondents are further required to submit with their Quotations the following **essential Returnable Documents** as detailed below.

Failure to provide all these Returnable Documents may result in a Respondent's disqualification. Respondents are therefore urged to ensure that all these documents are returned with their Quotations.

Essential Returnable Documents	Submitted [Yes or No]
- SECTION 3 : Attendance Certificate	
SECTION 5 : RFQ Declaration and Breach of Law Form	
- Valid and original, or a certified copy, of your entity's B-BBEE Verification Certification as per the requirements stipulated in Annexure A: B-BBEE Claims Form	
- Note: failure to provide these required documents at the closing date and time of the RFQ will result in an automatic score of zero being allocated for preference	
Original valid Tax Clearance Certificate [Consortia / Joint Ventures must submit a separate Tax Clearance Certificate for each party]	
ANNEXURE A - B-BBEE Preference Points Claim Form	

CONTINUED VALIDITY OF RETURNABLE DOCUMENTS

The successful Respondent will be required to ensure the validity of all returnable documents, including but not limited to its Tax Clearance Certificate and valid B-BBEE Verification Certificate, for the duration of any contract emanating from this RFQ. Should the Respondent be awarded the contract **[the Agreement]** and fail to present Transnet with such renewals as and when they become due, Transnet shall be entitled, in addition to

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

RFQ for the Provision of 3kv DC Testing of Substation for Krugersdorp Depot

any other rights and remedies that it may have in terms of the eventual Agreement, to terminate such Agreement forthwith without any liability and without prejudice to any claims which Transnet may have for damages against the Respondent.

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RFQ for the Provision of 3kv DC Testing of Substation for Krugersdorp Depot

SECTION 3

RFQ SITE MEETING

A COMPULSORY INFORMATION MEETING WILL BE HELD AT THE FOLLOWING VENUE:

Venue : **MILLSITE**
Time : **10H00**
Date : **04 SEPTEMBER 2015**

The briefing session and site inspection meeting are compulsory and companies not attending **will be overlooked** during the tender awarding process.

2.1 ATTENDANCE CERTIFICATE

This is to certify that.....

Representative/s of

Has/have today attended the Tender briefing in respect of the proposed:

•
.....

TRANSNET'S REPRESENTATIVE

TENDERER'S REPRESENTATIVE

DATE :

DATE :

VERY IMPORTANT

ANY TENDERER NOT ATTENDING THE INFORMATION MEETING **WILL** AUTOMATICALLY BE EXCLUDED FROM THE BUSINESS AWARDING PROCESS

RFQ for the Provision of 3kv DC Testing of Substation for Krugersdorp Depot

QUOTATION FORM

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

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

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

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

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

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RFQ for the Provision of 3kv DC Testing of Substation for Krugersdorp Depot

SECTION 4**Price Schedule**

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

SCHEDULE OF QUANTITIES AND PRICING

Item No	Description of Goods /Services	Unit of Measure	Unit Price (ZAR)	Total Price (ZAR)
1	FOR THE PROVISION OF 3kv DC TESTING OF SUBSTATION FOR KRUGERSDORP DEPOT.			

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RFQ for the Provision of 3kv DC Testing of Substation for Krugersdorp Depot

CLAUSE BY CLAUSE COMPLIANCE DECLARATION FORM.**PROVISION OF 3kv DC TESTING OF SUBSTATION FOR KRUGERSDORP DEPOT.**

The compliance response is to contain ONLY the following statements, "Noted", "Comply" or "Do not comply".

Noted is to be applied against statements and either of the other responses for other clauses. Where either Do not comply is applied, reasons as to the reason for the deviation from the requirement are required.

DESCRIPTION	Comply, Not Comply	Reason Deviation
1. The complete testing of all electrical protection relays, Current Transformers, Voltage Transformers and other related protection equipment's at 3kv DC traction substation between Hardeklip and Tatodi, Harrisburg and Sherperdtree under the control of Krugersdorp substations.		
2. On completion of tests, The Contractor will be required to fill in test sheet per substation as supplied in the annexure below. The Contractor must attach test sheet report in the test book of substations and bring other copy to the Depot for filing purposes. No payment will be made to Contractor without the full report of tests and defects. The Contractor must submit the invoice for the completed substation at Krugersdorp Depot for payment. Travelling and accommodation cost should be included in the total quotation for this work.		
3. The Contractor must have previous knowledge of 3kV DC substation with Transnet.		
4). The Contractor must be in possession of required testing instruments for both DC/AC tests. Transnet personnel will visit all workshops to verify the availability of		

<p>the equipment required before the contract is awarded. These will be clarified during site inspection meeting.</p> <p>Transnet will provide testing equipment's to the Contractor in case they do not have testing equipment's (provided they understand how to operate equipment's), testing equipment's will always travel with the responsible Transnet Technician after or before testing of substation. No Contractor will be allowed to travel with testing equipment's. Contractor will be responsible for repairing of damaged equipment's during testing.</p>		
<p>5. Contractors must provide a copy of the latest calibration certificates of all testing equipment's. Refer to the attached Transnet specification included in this document for intervals calibration/verification of testing equipment's (BBD5294 Version 1).</p>		
<p>6. Tenders are required to complete the price and time schedules for the activities listed below. Failure to complete these schedules in full will result in the offer not being considered.</p>		
<p>7. Nature of work requires that personnel performing this work shall be authorized in terms of Transnet's Electrical Safety Instructions.</p>		
<p>8. A Technician from Transnet will provide access to the substations and will arrange for Isolation to all equipment before handing it over for testing purposes. No work shall be done in any substation without the presence of a Transnet representative.</p>		
<p>9. All technical related queries must be referred to the manager of the contract.</p>		
<p>10. The Technician who will assist during the contract is based in Krugersdorp Depot from where he will depart and escort the contractor every morning. Any uncertainties will be discussed at the site meeting.</p>		
<p>11. Contractor will be inducted by Transnet safety rep and electrical</p>		

RFQ for the Provision of 3kv DC Testing of Substation for Krugersdorp Depot

Safety officer before commencement of work. No work will commence without safety Induction.		
12. Equipments Required for testing and measuring: Refer to Transnet specifications BBD5294.		
13. The following testing should be performed: <u>Traction Substation</u> a). BBF9294 version 3. b). BBB9295 version 3. c). BBD9000 version 3. d) BBD9991		

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RFQ for the Provision of 3kv DC Testing of Substation for Krugersdorp Depot

COMPANY INFORMATION

STATEMENT OF WORK (S) SUCCESSFULLY CARRIED OUT BY THE TENDERER:

- Tenderers are to advise which other companies have they successfully provided or are currently providing similar services.

Service Description	For whom done	Period	Contact person and Telephone or Cell number

"PREVIEW COPY ONLY"

RFQ for the Provision of 3kv DC Testing of Substation for Krugersdorp Depot

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

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

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

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

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

SIGNED at _____ on this _____ day of _____ 20__

SIGNATURE OF WITNESSES

ADDRESS OF WITNESSES

1 _____

Name _____

2 _____

Name _____

SIGNATURE OF RESPONDENT'S AUTHORISED REPRESENTATIVE: _____

NAME: _____

DESIGNATION: _____

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SECTION 5**RFQ DECLARATION AND BREACH OF LAW FORM**

NAME OF ENTITY: _____

We _____ do hereby certify that:

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

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

ADDRESS:

Indicate nature of relationship with Transnet:

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

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

BREACH OF LAW

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

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

NATURE OF BREACH:

DATE OF BREACH: _____

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

SIGNED _____ on this _____ day of _____ 20____

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