



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-HGR-19143

**FOR THE SUPPLY AND DELIVERY OF: INFRARED THERMO GRAPHIC SCANNING OF
OVERHEAD EQUIPMENT HEIDELBURG**

FOR DIRECTIONS CONTACT : KHAYAKAZI JIKIJA 016 340-7258/ 083 268 6925

ISSUE DATE : 10 SEPTEMBER 2015

BRIEFING DATE : 16 SEPTEMBER 2015 (COMPULSORY MEETING)

BRIEFING TIME : 10:00

VENUE : HEIDELBURG DEPOT

CLOSING DATE : 22 SEPTEMBER 2015

CLOSING TIME : 10:00 (PUNCTUALLY)

OPTION DATE : 31 DECEMBER 2015

**PLEASE BRING YOUR VALID TENDER DOCUMENT ON THE DAY OF THE
BRIEFING OTHERWISE YOU WILL NOT BE ALLOWED TO ATTEND THE
MEETING**

**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.**

**SECTION 1****NOTICE TO BIDDERS**

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

METHOD: [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 exceed 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: Mohale Rapetswa Email: mohale.rapetswa@transnet.net
Telephone: 011 584 0944

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:

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, excluding 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.

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.

RFQ for: **INFRARED THERMO GRAPHIC SCANNING OF OVERHEAD TRACK EQUIPMENT**



The threshold is 100%.

10 Specification/Scope of Work

Description **INFRARED THERMO GRAPHIC SCANNING OF OVERHEAD TRACK EQUIPMENT**

Transnet urges its clients, suppliers and the general public to report any fraud or corruption to

TIP-OFFS ANONYMOUS: 0800 003 056

RFQ for the INFRARED THERMO GRAPHIC SCANNING OF OVERHEAD TRACK EQUIPMENT

CLOSING VENUE: Tender Box, ground floor, Inyanda House 1, 21 Wellington Road, Parktown

CLOSING DATE & TIME: 22 SEPTEMBER 2015 - 10:00

VALIDITY PERIOD: 31 DECEMBER 2015

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INFRASTRUCTURE

PROJECT SPECIFICATION

**PROJECT SPECIFICATION FOR INFRARED THERMOGRAPHIC SCANNING
OF OVERHEAD TRACK EQUIPMENT**

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RFQ for: **INFRARED THERMO GRAPHIC SCANNING OF OVERHEAD TRACK EQUIPMENT**

TRANSNET

1. SCOPE

- 1.1 This project specification covers Transnet Freight Rail's requirements for infrared thermographic scanning of railway electrification equipment, processing of data and the presentation of results for the purpose of preventative maintenance on 3kVDC overhead track equipment of Transnet Freight Rail under the control of Infrastructure Manager – NATCOR

2. STANDARDS

Item no.	Specification no.	Description
2.1	E4E (August 2006)	Safety arrangements and procedural compliance with the Occupational Health and Safety Act, Act 85 of 1993 and regulations
2.2	BBD5814	Specification for Infra-red Thermographic Scanning of Overhead Track Equipment
2.3	E7/1	Specification for Works On-, Over-, Under- or Adjacent to Railway Lines and near High Voltage Equipment

3. DESCRIPTION OF WORK

- 3.1 The Working Area shall be the overhead track equipment owned and maintained by Transnet Freight Rail at any Work location within the borders of the Depot Engineer Manager Heidelberg
- 3.2 The estimated total distance of overhead lines to be scanned is 2 220 km. The overhead lines will be scanned during the night. It is expected between 50 km and 500 km and an average of five hours can be scanned per night. Transnet Freight Rail does not guarantee the estimated km scanned will be achieved on the night. The depot will, therefore determine the section to be scanned per night to suit their needs.
- 3.3 The Supervisor will determine the Working Areas where the scanning of the overhead track equipment shall be done, and shall instruct the Contractor regarding the priorities and programme for performance of the Work with regular updates.
- 3.4 The Contractor shall perform the following within Transnet Freight Rail's territories on the NATCOR and according to the scope of work:
- 3.4.1 Mount and dismount under supervision, the infrared camera onto- or from the stationary locomotive AND use hand held camera for Substations.
- 3.4.2 Perform the job only during the night.
- 3.4.3 The Contractor shall test his/her equipment prior to starting a scanning trip.
- 3.4.4 The Contractor shall set the infrared camera to clearly view the conductors and or track switches to be scanned.
- 3.4.5 The Contractor shall record the exception events and GPS co-ordinates continuously.
- 3.4.6 After every scan, the Contractor shall label the recordings according to the depot name and section scanned.
- 3.4.7 The Contractor shall sign the site diary and site instruction book an every scanning trip.

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4. CONTRACTUAL OBLIGATIONS

- 4.1 Over and above the conditions mentioned in the general conditions of contract, the Contractor shall also be responsible for the conditions mentioned hereunder.
- 4.1.1 The Contractor shall take full responsibility for and shall warrant the suitability and operational compliance of the equipment provided by him for performing the work in accordance with the contract specifications.
- 4.1.2 The Contractor shall be competent to perform the work required in terms of the contract and shall warrant the competence of persons appointed by him to perform the work.
- 4.1.3 The Contractor shall perform all the duties and functions required in terms of the contract and shall comply with all reasonable instructions and directions of the Supervisor or his duly authorised deputy in respect of performing the contract work and compliance with Transnet Freight Rail's health and safety requirements.
- 4.1.4 The Contractor shall not make use of any sub-contractor to perform the works or parts thereof without prior permission from the Project Manager or Supervisor.
- 4.1.5 The Contractor shall supply a site diary (triplicate copies). This book shall be used to record daily happening such as identifying the sections scanned, and 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 scanning being cancelled, etc. The appointed Project Manager or Supervisor must be informed and such delays must be countersigned by the Transnet Freight Rail depot personnel accompanying the scan.
- 4.1.6 The Contractor shall supply a site instruction book (triplicate copies). 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, Supervisor or Supervisor deputy and must be countersigned by the Contractor.
- 4.1.7 Both books mentioned above shall be the property of Transnet Freight Rail and shall be handed over to the Project Manager or Supervisor on the very last day of submitting payment for work done.
- 4.1.8 Should a planned equipment scan be cancelled at short notice (less than 12 hours) through no fault of the Contractor, the Contractor may claim compensation for his staff at the agreed rate in the schedule of quantities and prices.
- 4.1.9 The Contractor is responsible for transport of his staff and equipment between centres/infra-areas.
- 4.1.10 All post-processed reports shall be submitted to the Supervisor within two weeks after a successful scan within a depot's boundaries. This may exclude sections that have to be rescanned for whatever reason, and which were done later or will still be done. Failure to comply with this clause will result in a 2.5% penalty per day calculated on the normal payment for sections represented in the delayed report.
- 4.1.11 Payment for reports shall be made after the information is verified. Transnet Freight Rail will, prior to payment but within ten calendar days from receiving the reports, perform verification of the physical defect locations and of data format purity. Should quality shortcomings be identified, the Contractor will be expected to redo the post processing where after the Transnet Freight Rail will repeat the verification process. If there is no improvement, the non-performance clause, which forms part of the general conditions of contract shall govern/ enforced.

**5. INSTALLATION**

- 5.1 The Contractor shall design clamps and fasteners that will fit to all Transnet Freight Rail's locomotive consist. The design shall be such as to facilitate the equipment to be quickly and securely attached near 'LIVE' equipment while stationary in a yard or station area, and in compliance with Transnet Freight Rail's safety requirements.
- 5.2 No drilling or other method shall be used which cause damage to the locomotive.
- 5.3 The Contractor shall, under supervision, be responsible for mounting, connecting his/her equipment in such a way that the wires are not preventing the staff free movement and dismantling of the equipment from the locomotive

6. WORK TO BE DONE BY TRANSNET FREIGHT RAIL

- 6.1 Transnet Freight Rail shall, subject to its access control, security and safety arrangements; provide to the Contractor such access as is required to perform the works.
- 6.2 Transnet Freight Rail will provide transport for the Contractor's staff between the point of rendezvous as agreed and the point of arrival or departure of the train within a maximum range of 20km.
- 6.3 Transnet Freight Rail's Electrical Officer shall be available to coordinate the Contractor's performance of the work and to supervise the Contractor performing work in close proximity to "LIVE" overhead electrical equipment, such as mounting or detaching the equipment onto- or from a locomotive.
- 6.4 The Supervisor or his deputy shall determine on which train and/or locomotive the infrared scanning equipment shall be mounted in order to optimise, as far as possible, the scanning time. He shall advise the Contractor seven (7) calendar days in advance of the section, time and rendezvous for accompanying the Contractor to the locomotive.
- 6.5 The Supervisor or his deputy shall do verification audits on each report, before making payments and dispatching reports to respective depots.
- 6.6 The Supervisor or his deputy accompanying the Contractor shall monitor and record all scanning operations and certify payment therefore in accordance with the contract.
- 6.7 The Supervisor or his deputy shall ensure that parties involved in making payments sign the site diary and instruction book accordingly.
- 6.8 Transnet authorization Category-C is required of any person who works on electrification equipment near (within 3-m of) "live" equipment. A Category-C authority certificate is issued on the successful completion of a training module and written test to persons who are working near "LIVE" equipments. The training module is presented over four days.

7. TENDERING PROCEDURE

- 7.1 The term of the Contract shall be three (3) months. Notwithstanding the conditions mentioned in the general conditions of contract, the price shall hold firm for the term of the contract and escalation shall only be applicable should Transnet exercise its option to extend the contract for a further three (3) months.

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- 7.2 Tenderers shall complete the attached "Schedule of Quantities and Prices". Items not reflected in this Schedule, but covered in the Project Specification or agreed at the inspection meeting shall all be added to the 'Schedule of Work and Prices' by the Tenderer and quoted for accordingly.
- 7.3 An addendum reflecting changes to the Project Specification and "Schedule of Quantities and Prices" may be forwarded to Tenderers after the site meeting and Tenderers should quote accordingly.
- 7.4 Tenderers shall indicate clause-by-clause (including sub clauses) compliance with the specification. This shall take the form of a separate document listing all the specifications clause numbers indicating the individual statement of compliance or non-compliance. This document can be used by Tenderers to elaborate on their clause.
- 7.5 Tenderers shall motivate a statement of non-compliance.
- 7.6 Where equipment offered does not comply with standards or publications referred to in the specification, Tenderers shall state which standards apply and submit a copy in English or certified translation.
- 7.7 Tenderers shall submit equipment type test certificates as specified with the Tender. These shall be in English or certified translation.
- 7.8 The quantities in the Schedule of Prices and Quantities are estimated and may be more or less than stated.
- 7.9 The Schedule of Prices makes provision for tenderers to quote the following unit prices:-
- 7.9.1 A rate per km to scan overhead track equipment. This rate shall include the cost of all reports compiled per section.
- 7.9.2 A rate per hour for overtime. This rate shall cover the cost of all personnel.
- 7.9.3 A rate per hour for Sunday time. This rate shall cover the cost of all personnel.
- 7.9.4 A rate per hour for work on public holidays. This rate shall cover the cost of all personnel.
- 7.9.5 A rate per for accommodation. This rate shall cover all costs of accommodation associated expenses for the Contractor's personnel while away from their headquarters.
- 7.9.6 A rate per kilometre for travelling. This rate shall cover the costs per kilometre travelled by the Contractor's personnel between the Contractor's headquarters and the departure site in an Infrastructure Area. The Transnet Freight Rail railway network NATCOR is divided into "Infrastructure Maintenance Depots" and work places/route lengths are designated with reference to the Infrastructure Maintenance Depot where work is to be performed. (See annexure 2 for details of the Infrastructure Areas.)
- 7.9.7 A rate per day to compensate the Contractor for cancellation of trains at short notice.
- 7.9.8 A rate per hour for waiting for trains will only be in effect if the minimum of five hours of scanning is not achieved.
- 7.10 Tenderers shall quote unit prices that shall be applied in the Schedule of Prices and Quantities to determine the approximate tender price.
- 7.11 The contract price shall be ascertained as the sum of all scanning costs, report costs, overtime costs, travelling, accommodation and other associated costs.
- 7.12 Tenderers shall submit proposals of how they will operate to achieve the specified results and also submit specimens of reports to be produced.

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INFRASTRUCTURE

SPECIFICATION

REQUIREMENTS FOR INFRARED THERMO GRAPHIC SCANNING OF OVERHEAD TRACK EQUIPMENT.

Statement of authorisation:

There is no SANS specification available for similar material / equipment and as far as can be ascertained no other specification / standard suitably covers Transnet Freight Rail requirements. The specification has been compiled in a manner which shall favour / encourage local manufacture of material / equipment to a maximum degree.

This specification covers the requirements for infrared thermal scanning of 3kV, 25kV and 50kV of railway electrification equipment, the processing of the data and presentation of results for the purpose of preventative maintenance.

Author	Junior Manager – Infrastructure Engineering	D.G. Naiddo
Authorised	pp Principal Engineer – Infrastructure Engineering	C.F. Du Toit

Date 2009-03-10

Circulation restricted to: Infrastructure Maintenance
Infrastructure Engineering
Relevant third parties

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SPECIFICATION

**REQUIREMENTS FOR INFRARED THERMO GRAPHIC
SCANNING OF OVERHEAD TRACK EQUIPMENT.**

This specification covers the requirements for infrared thermal scanning of 3kV, 25kV and 50kV of railway electrification equipment, the processing of the data and presentation of results for the purpose of preventative maintenance.

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1.0 SCOPE.

This specification covers the technical requirements for infrared thermo graphic scanning of railway electrification equipment, processing of data and the presentation of results for the purpose of preventive maintenance on 3kV DC, 25kV AC and 50kV AC overhead track equipment of Transnet Freight Rail.

2.0 GENERAL

Transnet Freight Rail requires condition assessment information over its 13 000km of overhead electrification equipment to eliminate the risk to service reliability. The data must be in compatible format for Transnet Freight Rail's Infrastructure Maintenance Management system, and be usable to maintenance repair teams.

3.0 SERVICE CONDITIONS.

The infrared scanning shall be done under the following conditions:

- 3.1 Altitude : 0 - 1800m above sea level.
- 3.2 Ambient temperature : -5 °C to +45 °C.
- 3.3 Relative humidity : 10% to 90%.
- 3.4 Lightning conditions : 11 flashes per square km per annum.

4.0 TECHNICAL REQUIREMENTS.

- 4.1 The contractor shall use infrared imaging to detect temperature deviations, relative to a reference temperature, of electrification infrastructure equipment.
- 4.2 The reference temperature against which overheating components are compared shall be that of the running conductor or component to which the overheating component is electrically connected.
- 4.3 A "hotspot" shall be reported whenever the temperature of the component is $\geq 5^{\circ}\text{C}$ above that of the associated reference component. This threshold may be changed at the discretion of the project manager.
- 4.4 For the purpose of scanning the overhead track equipment, the thermal imaging equipment may be mounted on the trailing locomotive of a locomotive consist which will generally be hauling a heavy haul train load, but may be a specified locomotive consist. Alternatively for scanning the track bonding, the equipment may be mounted on the leading locomotive in which case the contractor must allow for such cabling that might be required. Suitable means for mounting such equipment without causing damage to said locomotive shall be provided by the successful contractor.
- 4.5 The thermal recording equipment shall be capable of reliable operation under the electrically noisy environment and mechanical vibration normally associated with railway traction locomotives.
- 4.6 The recording equipment shall have its own power source. Petrol driven generators will not be allowed. A battery bank is recommended.



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- 4.7 Scanning will be generally undertaken at night during cooler months of the year and the program shall be arranged by the Project Manager.
- 4.8 The contractor shall use image analysis software to record the following during the scanning process:
- 4.8.1 Capture a six second image file sequence and save it to disc with file reference as specified in section 5.3 hereof.
- 4.8.2 Capture an image bitmap depicting the defect centred on the bitmap.
- 4.8.3 Save a database record to disc as specified in section 5.3 hereof.

5.0 REPORTS.

5.1 GENERAL

This section describes the format in which defects detected through infrared thermo graphic scanning are to be reported; the system whereby the location of defects are to be identified and the format of reports.

5.2 TRANSNET FREIGHT RAIL INFORMATION REQUIREMENTS

- 5.2.1 Transnet Freight Rail references its railway infrastructure in relation to kilometric beacons that are installed in the railway servitude. Due to past railway deviations there are "long-" and "short kilometres". For this reason a defect location can be presented as e.g. 23km, 1060 meter. It will not be possible to provide a mechanical measuring wheel with odometric read-out to the locomotive consist to derive this figure.
- 5.2.2 In addition to km-references, masts are numbered sequentially with reference to the kilometric beacon positions, e.g. "23/14" will be the mast number for the 14th mast between km-23 and km-24 beacons.
- ### 5.3 FORMAT OF REPORTS
- 5.3.1 The information is required in two media formats namely hard copy and compact disc.
- 5.3.2 An electronic report on compact disc shall on completion of each depot's scanning, be handed to the Contracts Supervisor. The Contractor shall acquire acknowledgement of receipt in the site diary to that effect. The report shall include:
- (a) the electronic image files.
 - (b) a post-processed database report on completion of a depot's area that provides a purified version on compact disc and hard copy printout on in which the probable component that is the source of the "hot-spot" is identified.
- 5.3.3 The standard component descriptions in Annexure 4 must be used in the "component" field. The contractor's Thermographer must indicate the probable overheating component. The contractor is not expected to guess at the likely root cause of the overheating component.



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5.3.4. Hard copy printouts shall be provided on A4-size, with the information as specified in Annexure 2 hereto.

5.3.5. Electronic data:

5.3.5.1 For each defect detected a database record is required in the prescribed Microsoft excel file format, as specified in the Annexure 1 hereto.

5.3.5.2 For each defect detected a bitmap image on compact disc is required.

5.3.5.3 For each defect detected a 6 second image sequence file on CD shall be provided, starting 4 seconds before- and ending 2 seconds after the defect.

5.3.5.4 Images must be readable with Microsoft product software.

5.3.5.5 Image files, coded into the file name, must be saved with :

- depot Name, and
- record number unique to the campaign

5.4 MEASUREMENT REQUIREMENTS

5.4.1 The system must identify at the location where the following phenomena occurs, the information required in Annexures 1 and 2:

5.4.1.1 overheating components as a result of electrical continuity defects.

5.4.1.2 visible arcing emitted by the copper of the wire during the electrical arcing caused by the current collector parting from the contact wire, but excluding those at section insulators.

5.5 DATA VERIFICATION

5.5.1 Transnet will require a verification of the data before acceptance, the details of which will be described in the project specification.

6.0 Tender Procedure.

6.1 Tenders shall be submitted in accordance with Transnet's tendering method stated in the Project Specification.

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7.0 Annexures.

The following appendices form an integral part of this specification.

- 7.1 Annexure 1: INFORMATION REQUIRED IN DATABASE FORMAT.
- 7.2 Annexure 2: FORMAT FOR HARD COPY REPORT-1.
- 7.3 Annexure 3: FORMAT FOR HARD COPY REPORTS-2.
- 7.6 Annexure 4: STANDARD DESCRIPTIONS OF COMPONENTS.

END

CHIEF ENGINEER
INFRASTRUCTURE ENGINEERING

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ANNEXURE 1 - INFORMATION REQUIRED IN DATABASE FORMAT

Microsoft Excel file format for viewing with Microsoft Office software, and for importing into IAMM viewer:

<i>Parameter</i>	<i>Format, e.g.</i>
Date	2004-03-12
Record no.	0001
GPS Latitude	29.84803401
GPS Longitude	-27.33911629
GPS Altitude	1707.22
Section ID	E1H13VC
Line code	C02 - L028
Section description Node 1	Newcastle
Section description Node 2	Ladysmith
Mast location (before fault)	45/2
Mast location (after fault)	45/3
Magnetic tape timer	01:24:34
Kilometer	45
Meter	0.0102
Line (up/down/yard)	Up
Linked bitmap	LDS_0034 .JPEG
Linked video clip	LDS_0034 .MPEG
Defective component	Catenarysplice
Relative temperature	16°C



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ANNEXURE 2 - FORMAT OF HARD COPY REPORT-1

**Infra-red Scan
Overhead Track Equipment**

Date	Record Number	GPS Co-ordinates			Section description				Line (up/down/yard)	Mast loc before	Mast loc after
		Latitude	Longitude	Altitude	Section ID	Line code	Node 1	Node 2			

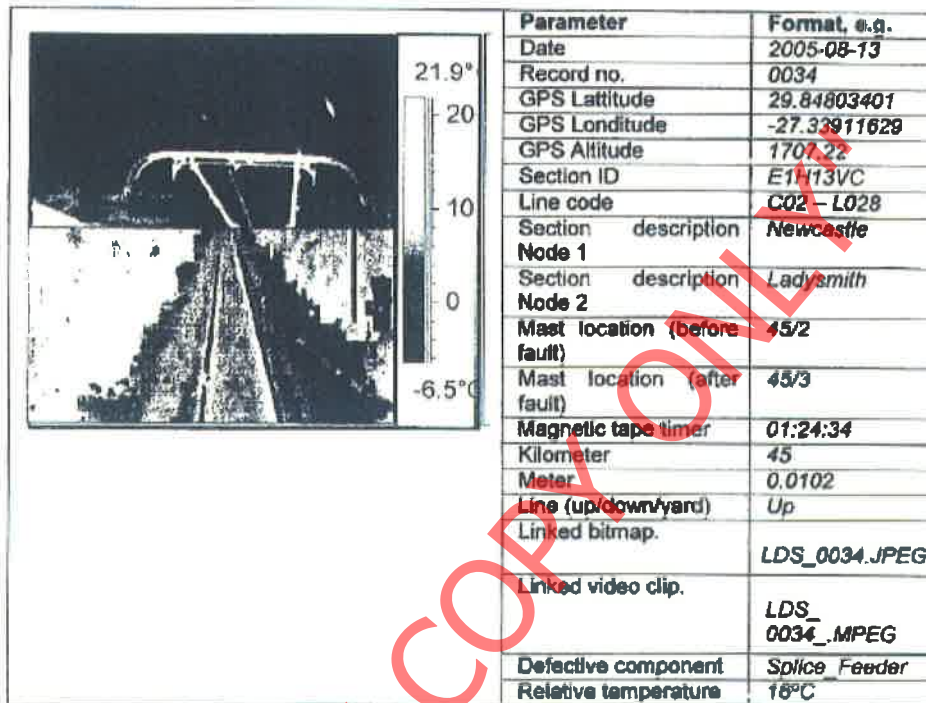
Relative Temperature	Magnetic tape Time counter	Km	Meter	Linked bitmap	Linked video clip	Component

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ANNEXURE 3 - FORMAT OF HARD COPY REPORT-2

Images of the overhead wires and track bonding must be combined in a graphic picture, and the location text superimposed on the graphic. The file must be in the JPG format. An example of the graphic format is provided as guideline:



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ANNEXURE 4 - STANDARD DESCRIPTIONS OF COMPONENTS

The standard defect descriptions are to be used for compatibility with the IAMM system and have a standard word length with underscore characters for word breaks. No other description may be used. Pick-list compiling is recommended. The information is available to the successful tenderer in electronic format from Transnet Freight Rail.

- 1 Bond_Mast_Rail_Mast_side
- 2 Bond_Mast_Rail_Rail_side
- 3 Bond_Rail_continuity
- 4 Booster_wire_clamp
- 5 Clamp_FCC_catenary_side
- 6 Clamp_Catenary_Suspension
- 7 Clamp_Contact
- 8 Clamp_Earth_wire
- 9 Clamp_FCC_contact_side
- 10 Clamp_FCC_feeder_side
- 11 Clamp_Feeder_Suspension
- 12 Distribution_switch_contacts
- 13 Distribution_line_clamp
- 14 Distribution_line_insulator
- 15 Dropper
- 16 Insulator_Cross_Span
- 17 Insulator_Feeder
- 18 Insulator_Strain
- 19 Insulator_Strutt
- 20 Insulator_Suspension
- 21 Insulator_Top
- 22 Jumper_FCC
- 23 Jumper_Contact_Contact
- 24 Jumper_Track_switch
- 25 Multiple_components
- 26 Phase_break
- 27 Pantograph_bounce
- 28 Section_insulator
- 29 Splice_Contact
- 30 Splice_Feeder
- 31 Track_switch_contacts
- 32 Uncertain_Inconclusive

END



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 _____.

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:

Phase 1: Administrative responsiveness - Completeness of response and returnable

Documents:-

- Letter of Good Standing.
- Delivery Schedule

Substantive Responsiveness Test (Mandatory Documents):-

- Safety Plan
- Compliance to Specification Clause by clause declaration.



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

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

Mandatory Returnable Documents	Submitted [Yes or No]
<ul style="list-style-type: none"> • Safety Plan • Compliance to Specification Clause by clause declaration. 	
SECTION 2 : Evaluation criteria and list of returnable documents	

- 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 : Quotation Form/ Pricing	
- SECTION 4 : RFQ Site meeting Form	
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]	

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 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.

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.



**SECTION 3
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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9. ANNEXURE 2: INFRASTRUCTURE AREAS NATCOR

Depot	Approximate Sections	Scan	Approx. km's	Elect Type	Methods of Scanning
Heidelberg	Rooikop-Majuba No.1	Once	216	3kVDC	Consists/YQ
	Palmford-Glencoe No.1	Once	146	3kVDC	Consists/YQ
	Glencoe-Vooruitsig No.2	Once	130	3kVDC	Consists/YQ
	Vooruitsig-Glenroy No.2	Once	206	3kVDC	Consists/YQ

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SECTION 4

RFQ SITE MEETING

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

Venue : **HEIDELBURG**
Time : **10H00**
Date : **16 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 AWARING PROCESS

"PREVIEW COPY ONLY"



DELIVERY SCHEDULE

Tenderers are further required to indicate the turnaround times from receipt of Order to delivery.

_____ Days/Weeks/Months

Notes to Pricing:

- a) All Prices must be quoted in South African Rand, exclusive of VAT
- b) To facilitate like-for-like comparison bidders must submit pricing strictly in accordance with this price schedule and not utilise a different format. Deviation from this pricing schedule could result in a bid being disqualified.

Please note that should you have offered a discounted price(s), Transnet will only consider such price discount(s) in the final evaluation stage if offered on an unconditional basis.

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 or 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.

RFQ for: **INFRARED THERMO GRAPHIC SCANNING OF OVERHEAD TRACK EQUIPMENT**



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: _____

"PREVIEW COPY ONLY"



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:



[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 at _____ on this _____ day of _____ 20____

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