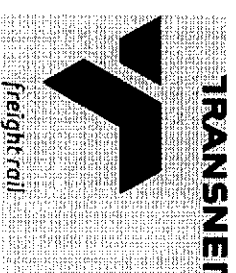


RFQ / TENDER

Tender No: HAM 62



Vendor No: 11001386

BOARD LIST
BOARD LIST
TRANSNET FREIGHT RAIL
PROCUREMENT DEPARTMENT
2000

Purchaser : Helena Manger
Telephone : 011 584 0604
Fax Number: .

Please quote reference:
DD3/6000565010

Deliver to:
TFR Head Office
Supply Chain Services
2000 Johannesburg

Closing Date : 22.03.2011
Validity Date : 24.06.2011
RFQ No : 6000565010

1. RETURN OF QUOTATIONS:

1.1 QUOTATIONS MUST BE SUBMITTED PUNCTUALLY AT 10:00 ON THE CLOSING DATE AND LATE QUOTATIONS WILL NOT BE CONSIDERED, AND MUST BE ENCLOSED IN A SEALED ENVELOPE WHICH MUCH HAVE INSCRIBED ON THE OUTSIDE: TENDER NO: HAM 62; DESCRIPTION : SPLICING; CLOSING DATE & TIME 22 MARCH 2011 AT 10:00AM

1.2 IF POSTED:

SECRETARY (TRANSNET ACQUISITION COUNCIL)
PO BOX 4244
JOHANNESBURG
2000

1.3 IF DELIVERED BY HAND:

SECRETARY (TRANSNET ACQUISITION COUNCIL)
GROUND FLOOR
21 WELLINGTON ROAD
PARKTOWN
2193

2. CONDITIONS:

- 2.1, ANY PURCHASE ORDER PLACED AS A RESULT OF YOUR QUOTATION WILL BE SUBJECT TO THE STANDARD TERMS AND CONDITIONS OF CONTRACT, FORM US7, (LATEST), GENERAL TENDER CONDITIONS, FORM CSS5 (LATEST) AND CONDITIONS MENTIONED HEREIN.
- 2.2, TENDERERS MAY OFFER AN EARLIER VALIDITY DATE, BUT THEIR QUOTATION MAY, IN THAT EVENT, BE DISREGARDED FOR THIS REASON.
- 2.3, TENDERERS ARE REQUIRED TO OFFER ONLY FIRM PRICES.
- 2.4, BEST DELIVERY TIME MUST BE OFFERED.
- 2.5, DISCOUNT (TRADE DISCOUNT) CASH DISCOUNT (CONDITIONAL DISCOUNT) VALUE ADDED TAX (VAT) MUST BE SHOWN SEPARATELY.
- 2.6, TRANSNET RESERVES THE RIGHT TO NEGOTIATE PRICES AND COMMERCIAL ASPECTS AFTER THE CLOSING DATE OF THE QUOTATION.

DATE: SIGNATURE OF TENDERER(S):
CONTACT PERSON: TEL No:

RFQ / TENDER

Tender No: HAM 62 Page
Date : 09.03.2011 2

BOARD LIST TRANSNET FREIGHT RAIL PROCUREMENT DEPARTMENT

2.7.DIRECT DELIVERY INTIMATES DELIVERY BEING EFFECTED TO THE ACTUAL POINT OF SUPPLY AND SHOULD THEREFORE INCLUDE ANY TRANSPORTATION MODE DEEMED NECESSARY IN EXECUTING THIS METHOD OF DELIVERY BASIS IN ORDER TO MEET THE REQUIRED DELIVERY DATE.

TAX CLEARANCE CERTIFICATES:

The Regulations in terms of the Public Finance Management Act, 1999, Framework for Supply Chain Management as published in Government Gazette No. 25767 dated 5 December 2003, Clause 9 (1) (d), stipulates that the accounting officer or accounting authority of an institution to which these regulations apply must reject any bid from a supplier who fails to provide written proof from the South African Revenue that the supplier either has no outstanding tax obligations or has made arrangements to meet outstanding tax obligations. Tenderers will be disqualified if a valid tax clearance certificate or written proof from the South African Revenue Service that supplier has made arrangements to meet outstanding tax obligations is not submitted with the tender.

BROAD BASED BLACK ECONOMIC EMPOWERMENT (BBBEE)

Transnet fully endorses and supports the Government's Broad-based Black Economic Empowerment Programme and it is strongly of the opinion that all South African Business Enterprises have an equal obligation to redress the imbalances of the past. Transnet will therefore prefer to do business with local business enterprises who share these same values. Transnet will endeavour to do business with local business enterprises that possess a BBBEE "recognition level" of at least a level 5. Transnet urges Tenderers (large enterprises and QSE's - see below) to have themselves accredited by any one of the various Accreditation Agencies available, who do their BBBEE ratings in accordance with the latest Codes (i.e. those promulgated on 9 February 2007) and whose names appear on the present ABVA (Association of BEE Verification Agencies) - "List of Full Members" as displayed on the ABVA website (www.abva.co.za). Although no agencies have, as yet, been accredited by SANAS (SA National Accreditation System), Transnet will, in the interim, accept rating certificates of tenderers who have been verified by any of the listed agencies.

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

1. Large Enterprises (i.e. annual turnover >R35million):
Rating level based on all seven elements of the BBBEE scorecard.

2. Qualifying Small Enterprises - (QSE) (i.e. annual turnover >R5million but <R35million):
Rating based on any four elements of the BBBEE scorecard.

NB:

3. Emerging Micro Enterprises - (EME) (i.e. annual turnover <R5m) are exempted from being rated/verified:
Automatic rating of Level 4 BBBEE irrespective of race of ownership, i.e. 100% BBBEE recognition
Black ownership >50% or Black Women ownership >30% automatically qualifies as Level 3 BBBEE, i.e. 110% BBBEE recognition
EME's should provide certified documentary proof of annual turnover (i.e. audited financials) plus proof of Black ownership if Black ownership >50% or Black Women ownership >30% from the EME's Auditor/Accounting Officer.

4. In addition to the above, Tenderers who wish to enter into a Joint Venture or subcontract portions of the contract to BBBEE companies, must state in their tenders the percentage of the total contract value that will 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-contractor/s, as well as a breakdown of the distribution of the aforementioned percentage must also be furnished

In view of the high emphasis which Transnet places on Broad-based Black Economic Empowerment, Transnet will allow certain preference points for BBBEE in the evaluation of all responses. Depending upon the value of the ensuing business award (i.e. below or in excess of R2m), the 80/20 or 90/10 point preference systems will be utilized where BBBEE will count out of 20 or 10 respectively in the evaluation process.

DATE:

SIGNATURE OF TENDERER(S):

.....

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Date : 09.03.2011 3

BOARD LIST
TRANSNET FREIGHT RAIL
PROCUREMENT DEPARTMENT

EACH RESPONDENT IS REQUIRED TO FURNISH PROOF OF THE ABOVE TO TRANSNET. FAILURE TO DO SO WILL RESULT IN A SCORE OF ZERO BEING ALLOCATED FOR BBEE.

Turnover: Kindly indicate your company's annual turnover for the past year R_____

If annual turnover <R5m, please attach certified confirmation from your Auditor/Accounting Officer
If annual turnover >R5m please attach original or certified copy of accreditation certificate and detailed scorecard by an ABVA accreditation agency (registered as a "Full Member")

PAYMENT TERMS

The following payment terms will apply as from 1 October 2008.

All suppliers will be paid 30 days from receipt of month end statement, i.e. payment term F055.

All CIDB suppliers will be paid 21 days from date of invoice, i.e. payment term F057.

CONDITIONS:

This quotation is subject to the provisions of the Standard Terms and Conditions of Contract, Form US7, (Latest) and the General Tender Conditions, Form CSS5 (Latest) and any other standard or special conditions mentioned and/or embodied in the quotation request.

DATE:

SIGNATURE OF TENDERER(S):

.....

RFQ / TENDER

Tender No: HAM 62 Page
Date : 09.03.2011 4

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TRANSNET FREIGHT RAIL
PROCUREMENT DEPARTMENT

SCHEDULE OF REQUIREMENTS

TENDERERS SHOULD INSERT THEIR PRICES UNDER THE APPROPRIATE HEADINGS HEREUNDER.

IN THIS REGARD THE TENDERER'S ATTENTION IS DIRECTED TO PARAGRAPH 16 OF FORM CSS5 (LATEST).

NB. TENDERERS OFFERING GOODS FROM IMPORTED SUPPLIES MUST SUBMIT THEIR PRICES ON THE DELIVERY BASIS APPEARING UNDER COLUMN (C) OF THIS SCHEDULE OF REQUIREMENTS.

Item	Qty	Material	Description
00010	1	Splice, Terminate and Test Optical Fibre	

R.....
Each

Delivery Date: 30.04.2011

FULL DETAILS OF DESCRIPTION

SPLICE, TERMINATE AND TEST OPTICAL FIBRE CABLE. FOCHVILLE - VEREENIGING. IN TERMS OF SPECIFICATION PRC-00106 DATED JANUARY 2008 REVISION 2.00 ATTACHED, AND IN TERMS OF THE SCOPE OF WORK ATTACHED. A CLAUSE BY CLAUSE STATEMENT OF COMPLIANCE AGAINST SPECIFICATION PRC-00106, MUST BE SUBMITTED WITH QUOTATION. A CURRENT CERTIFICATE OF GOOD STANDING WITH THE WORKMENS COMPENSATION COMMISSIONER IS REQUIRED. A CURRENT CERTIFICATE TO WORK ON TRANSNET FREIGHT RAIL'S OVERHEAD TRACK EQUIPMENT IS REQUIRED.

DATE:

SIGNATURE OF TENDERER(S):

RFQ / TENDER

Tender No: HAM 62 Page
Date : 09.03.2011 5

BOARD LIST
TRANSPORT FREIGHT RAIL,
PROCUREMENT DEPARTMENT.

3. ADDITIONAL INFORMATION REQUIRED: (WHERE APPLICABLE)

3.1 THE FOLLOWING ADDITIONAL INFORMATION IS REQUIRED:

(A) TRADE DISCOUNT

(B) PRICE/S FIRM:

(C) PRICE/S FIRM UNTL THEREAFTER SUBJECT TO REVIEW.

(D) DELIVERY DATE:

TENDERERS MUST FURNISH THEIR ACTUAL DELIVERY AND MANUFACTURING PERIOD HEREUNDER NOTWITHSTANDING THE DELIVERY DATES SPECIFIED BY TRANSTNET.

THE FOLLOWING MUST ALSO BE FURNISHED IN REGARD TO THE ABOVE:

1. PERIOD REQUIRED TO OBTAIN RAW MATERIAL.(DAYS)
2. MANUFACTURING PERIOD.(DAYS)
3. PERIOD TO TRANSPORT MATERIAL TO DESTINATION.(DAYS)

[illegible]

FOCHVILLE - VEREENINGING OFC SPLICE, TERMINATE AND TEST					
SCOPE OF WORK					
1	24 fibre OFC joint with trays and splice protectors	14	no *	yes	Tank
2	Joint Bracket DC	1	no *	yes	Laserfab
3	Termination Panels	3	no *	yes	TIS
4	Pigtails E2000	72	yes	yes	Dartcom
5	Mid couplers E2000	72	yes	yes	Dartcom
6	19" Term Cabinet	1	no *	yes	Afrac
7	Test and Commission completed optical paths	72		yes	
notes 1 note * = TFR Telecom will supply 2 Work to comply with PRC 00106 3 Work to be completed by 28 February 2011					

SCS

TRANSNET



freight rail

PROCEDURE

POST-INSTALLATION TESTS OF OPTIC FIBRE CABLE

STANDARD TEST PROCEDURE

POST-INSTALLATION TESTS OF OPTIC FIBRE CABLE

PRC-00106
JANUARY 2008

Revision 2.00

NON-DISCLOSURE OF INFORMATION

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Author : BG Nel

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Optic Fibre Cable Rev 2.doc

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I DOCUMENT AUTHORISATION

FUNCTION	NAME	TITLE & DIVISION	SIGNATURE	DATE
Completed by :	G Nel	Technologist, Transmission Services	<i>Signed G Nel</i>	07/03/2008
Reviewed by :	F Nel	Technologist, Projects Execution	<i>Signed F Nel</i>	07/03/2008
Authorised by :	M Nuttall	Divisional Manager, Transmission Services	<i>Signed M Nuttall</i>	11/03/2008

II DISTRIBUTION

Once updated, a copy of the latest revision will be published in the document management system in use. E-mail to this effect will be sent to the relevant personnel or heads of department.

III DOCUMENT CHANGE HISTORY

ISSUE NO.	DATE ISSUED	ISSUED BY	HISTORY DESCRIPTION
1.00	September 2001	Transmission	New document
2.00	January 2008	Transmission	Converted to ISO standard

IV CHANGES SINCE LAST REVISION

CLAUSE	DESCRIPTION
All	Converted to ISO standard

A

ABBREVIATIONS, ACRONYMS AND DEFINITIONS

ABBREVIATIONS AND ACRONYMS	DESCRIPTION
CD	Compact Disk
OTDR	Optical Time Domain Reflectometer
QAD	Quality Assurance Department
ODF	Optical distribution Frame
DEFINITIONS	DESCRIPTION
None	

LA

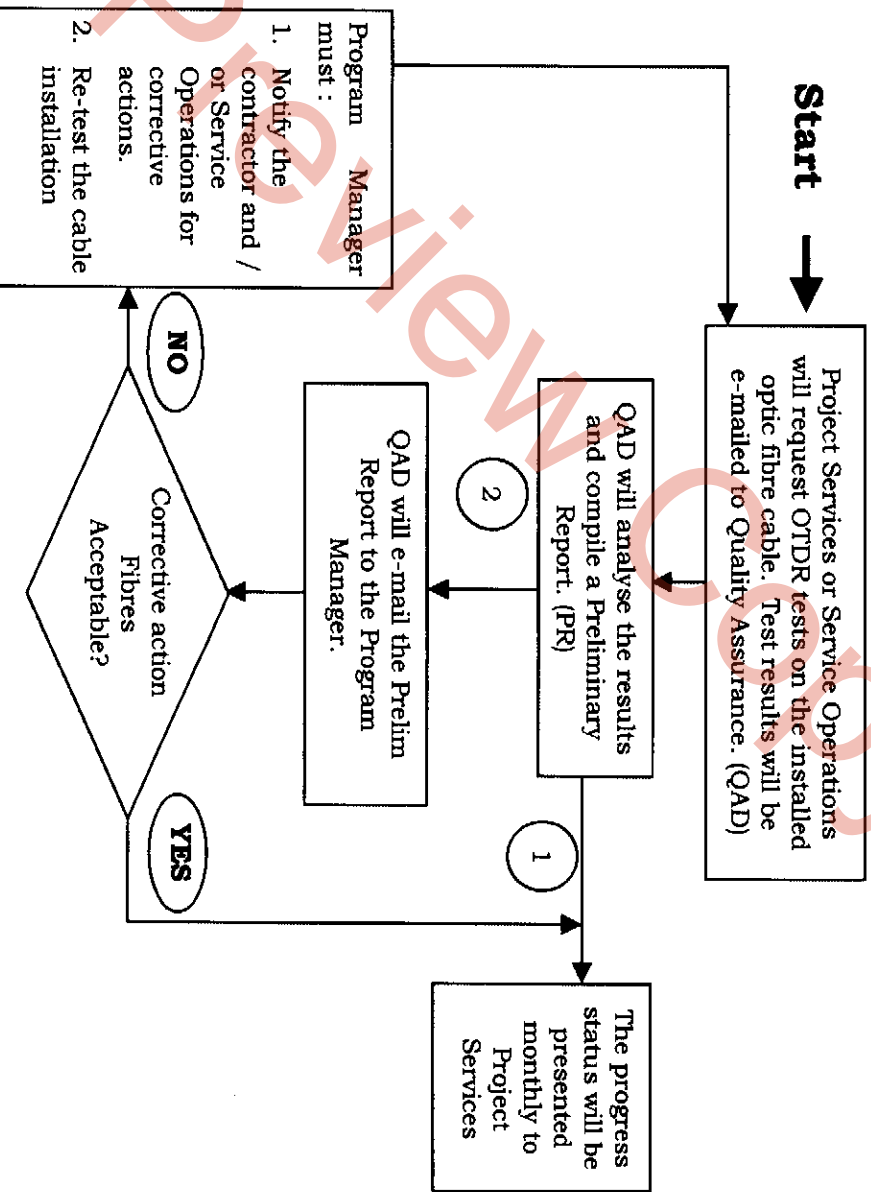
RELEVANT DOCUMENTATION

APPLICABLE		
DOCUMENT NO.	DESCRIPTION	LOCATION
None		

RELEVANT		
DOCUMENT NO.	DESCRIPTION	LOCATION
None		

1. OFC OTDR TEST SEQUENCE

SEQUENCE	TESTING OFFICER	OTDR TEST RESULTS
1) Factory Testing	Supplier	a) Hardcopy with drums b) E-mail to Project Manager c) E-mail to QAD
2) Pre-testing Drum's Standard Test Procedure	Project Services or Service Operations	E-mail to QAD
3) Post-installation Standard Test Procedure	Project Services or Service Operations	E-mail to QAD

2. PROCESS FOR PRE-TESTING

3. GENERAL

3.1 Background

3.1.1 Optical quality tests on the installed Optical Fibre Cable must be conducted after splicing of the first joint of the cable installation and with the OFC terminated at the ODF.

3.1.2 OTDR-trace files shall be stored in NATIVE format.

3.1.3 These tests will be conducted on request of the specific Project Manager or on request of the Head of Quality Assurance Transmission. If there are any abnormal indicators in the results of such tests the contractor will not be allowed to continue with splicing and installation of the cable until the reasons for the poor splices have been established.

3.2 Submission of OTDR profiles of first spliced joint within forty-eight (48) hours

3.2.1 The results of the tests must be submitted to the Head of the "Quality Assurance Transmission" in a report format. This submission must occur within forty-eight (48) hours of the first joint having been spliced.

3.3 Personnel

3.3.1 Personnel responsible for the execution of the tests will be fully trained in Optical Fibre Cable installation.

3.3.2 Personnel under going training and non-permanent staff members can only conduct tests under the supervision of trained personnel.

3.3.3 Transtel personnel must be in possession of all specifications concerning Optical Fibre Cable.

3.4 Equipment Requirements

3.4.1 Fusion Splicer.

3.4.2 Cleaning kit.

3.4.3 Optical Time Domain Reflectometer (OTDR).

3.4.4 Pigtail with E2000connector to fit OTDR.

3.4.5 Contract documentation.

3.4.6 Power source and Power meter.

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3.5 Tests to be done

3.5.1 With reference to Transnet Freight Rail's specifications SPC-00571 and SPC-00573 the following tests must be done :

3.5.1.1 On single mode fibres, take OTDR profiles (traces) at 1550 nm in both directions.

3.5.1.2 Measure the loss of each splice (events).

3.5.1.3 Record the link loss at 1550 nm with a power source and power meter. This measurement must be done in both directions.

3.5.1.4 On multimode fibres, testing cable lengths of greater than 1000 m may be done with a power source and power meter at 850 nm .

3.6 Fibre profiles

3.6.1 Use the OTDR to obtain profiles of the fibres.

3.6.2 Ensure that the reflectance value (launch level reflectance) at the insertion point of the OTDR into the cable comply with the value stated in the guidelines.

3.6.3 Save all profiles on a storage diskette in the OTDR.

3.6.4 Use the Section station's name for the file name.

3.6.5 Use the attached spreadsheet (Annexure B) to capture the power source and power meter link loss measurements. The spreadsheet must be e-mailed to the Quality Assurance Department at Transnet Freight Rail's Head Office (QAD).

3.7 Recording splice losses (Distribution graph of splice losses)

3.7.1 Use the OTDR to measure each splice loss.

3.7.2 Compare the loss measured in both directions on each splice to confirm any fibre core deviations.

4. GUIDELINES FOR TESTING OPTICAL FIBRE CABLE (OFC) INSTALLATIONS

4.1 OTDR Settings

4.1.1 Range setting : The shortest-range setting must be used, i.e. do not set the OTDR to an 80 km range when measuring 20 km OFC section.

4.1.2 Pulse width : Switch the OTDR to measure the shortest pulse width for the distance under test. (Analysing the end of the OFC-trace must be possible.)

4.1.3 Time duration : For the best results the maximum average time must be set. This can only be achieved by testing the OFC for a lengthy period. Readings should not be less than sixty (60) seconds on short OFC sections.

4.1.4 Launching level (Reflection level) : Clean the connector at the OTDR and the test cord to comply with the levels stated in Annexure A (acceptance criteria).

4.2 Presenting Results Using Toolbox or Target 1 Software

4.2.1 OTDR-trace file name.

Make use of the following format when naming the OTDR-trace file.

Fibre ID = Type in number of each fibre (e.g. Fibre number 6 = 06)

File = GMR—ISO - 06

GMR = Germiston

→ = Direction test was conducted (GMR to ISO)

ISO = Isando

4.2.2 Abbreviations, station names and number of splices (Extra Text or Word file).

4.2.2.1 List the station names and abbreviations in a separate Text or Word file.

4.2.2.2 Log the OTDR distance of the link.

4.2.2.3 Log the number of splice joints within in the link.

4.2.2.4 Send this information with all OTDR-traces to QAD.

4.3 E-mail the OTDR Profiles or Send the Storage CD to QAD

4.4 Labelling the CD

The following information must be used to label the CD, containing the above OTDR traces :

- 1) **CD NAME** : OTDR-Traces.
- 2) **SECTION** : First and last station name for the section tested, (e.g. Germiston — Isando).
- 3) **CONTACT PERSON** : Name and telephone number of person who has performed the test.
- 4) **CD NO.** : 1 of 3 (label and number of diskettes).
- 5) **DATE** : Use the following format (dd-mm-yyyy).

ANNEXURE A : ACCEPTANCE CRITERIA**A1. Splice Loss**

A1.1 The average splice loss of 0,08 dB at 1550 nm must be achieved for at least 70% of the splices.

A1.2 The average splice loss of 30% must be 0,0 dB this includes "gainers".

A1.3 Any single splice loss should not exceed a value of 0,3 dB .

A2. Launching (Injection) Levels

Using an OTDR, the launch level must be better than -50 dB (-50 to -75 dB).

A3. Link Loss

A3.1 The budgetary link loss measured between fibre cable termination points will be calculated as follows :

A3.1.1 Splice loss at 1550 nm = 0,08 dB for 70% of all splices.

A3.1.2 Splice loss at 1550 nm = 0,0 dB, and including "gainers" for 30% of all splices.

A3.1.3 Fibre loss at 1550 nm = 0,195 dB/km .

A3.1.4 Connector loss at 1550 nm = 0,15 dB .

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ANNEXURE B :

See Excel file herewith

END OF DOCUMENT

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