



RFQ / TENDER

Tender No: KGG-15059

Vendor No: 11001386

BOARD LIST
BOARD LIST
TRANSNET FREIGHT RAIL
PROCUREMENT DEPARTMENT
2000

Purchaser : Mohale Rapetswa
Telephone : 011 584-0944
Fax Number:

Please quote reference:
DL7/6000605685

Deliver to:
TFR Head Office
Supply Chain Services
2000 Johannesburg

Closing Date : 06.08.2014
Validity Date : 28.11.2014
RFQ No : 6000605685
End of Validity : 30.09.2014

Ihr Zeichen KGG-15059

OPTIC FIBRE SPLICING MACHINE

THE RFQ DOCUMENTS ARE OBTAINABLE FROM THE OFFICE OF TRANSNET FREIGHT RAIL, TENDER ADVISE CENTRE, GROUND FLOOR, INYANDA HOUSE 1, WELLINGTON ROAD, PARKTOWN, DURING OFFICE HOURS 08:00 TO 15:00 AND RFQ DOCUMENT IS FOR FREE.

RFQ CLOSING DATE: 06 AUGUST 2014

QUOTATIONS MAY BE E-MAILED TO: thuli.mathebula@transnet.net

FOR ANY TECHNICAL ENQUIRIES WITH REGARD TO THIS RFQ YOU MAY CONTACT KGOMOTSO RAMATLAPENG- 011-950-1377 OR 083 414 1758

1. RETURN OF QUOTATION/S:

1.1 QUOTATION/S MUST BE SUBMITTED PUNCTUALLY AT 10:00 ON THE CLOSING DATE (06 AUGUST 2014) AND LATE QUOTATIONS WILL NOT BE CONSIDERED.

1.2 IF POSTED:

21 WELLINGTON ROAD
INYANDA HOUSE 1
PARKTOWN
,2193

1.3 IF DELIVERED BY HAND:

TRANSNET FREIGHT RAIL
21 WELLINGTON ROAD
INYANDA HOUSE 1

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

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PARKTOWN

2. CONDITIONS:

- 2.2 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)
- 2.3 TENDERERS MAY OFFER AN EARLIER VALIDITY DATE, BUT THEIR QUOTATION MAY, IN THAT EVENT, BE DISREGARDED FOR THIS REASON.
- 2.4 TENDERERS ARE REQUIRED TO OFFER ONLY FIRM PRICES. PRICES SUBJECT TO REVIEW IN TERMS OF CLAUSE 32(I) OF FORM US7 WILL ONLY BE CONSIDERED SHOULD THE DELIVERY PERIOD REQUIRED EXCEED 6 MONTHS.
- 2.5 BEST DELIVERY TIME MUST BE OFFERED.
- 2.6 DISCOUNT (TRADE DISCOUNT)/CASH DISCOUNT (CONDITONAL DISCOUNT) VALUE ADDED TAX (VAT) MUST BE SHOWN SEPARATELY.
- 2.7 TRANSNET RESERVES THE RIGHT TO NEGOTIATE PRICES AND COMMERCIAL ASPECTS AFTER THE CLOSING DATE OF THE QUOTATION.

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2.8 DIRECT DELIVERY INTIMATES DELIVERY BEING EFFECTED INTO THE WAREHOUSE OR 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.

SCHEDULE OF REQUIREMENTS

TENDERERS SHOULD INSERT THEIR PRICE/S UNDER THE APPROPRIATE HEADINGS HEREUNDER.

IN THIS REGARD THE TENDERER'S ATTENTION IS DIRECTED TO PARAGRAPH 16 OF FORM CSS5 (REVISED October 2005).

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

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.

EVALUATION CRITERIA:
COMPETITIVE PRICING AND B-BBEE

COMPANY DETAILS:

NAME OF COMPANY: _____
CONTACT PERSON: _____
TEL NO: _____ FAX NO: _____
REG NO: _____

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:

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" 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.

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 BBBEE.

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.

Item	Qty	Material	Description
00010	1	OPTICAL FIBRE SPLICING EQUIPMENT	

R.....
Each

Delivery Date: 30.09.2014

FULL DETAILS OF DESCRIPTION

DATE:

SIGNATURE OF TENDERER(S):

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Date : 30.07.2014

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3. ADDITIONAL INFORMATION REQUIRED: (WHERE APPLICABLE)

3.1 THE FOLLOWING ADDITIONAL INFORMATION IS REQUIRED:

(A) Precedence would be given to affirmative companies in the adjudication of this tender. Documentary proof of the companies black ownership is to be returned with the tender documents, please.

(A) DISCOUNT:

(B) SETTLEMENT DISCOUNT:.....

(C) PRICE/S FIRM:

(D) PRICE/S FIRM UNTIL THEREAFTER SUBJECT TO REVIEW.

(E) PRICE/S NOT FIRM:

(F) SABS MARK:

(G) SABS PERMIT NO:

(H) BRAND/MAKE/TYPE:

(I) FULL NAME AND ADDRESS OF MANUFACTURER.:
.....
.....
.....

(J) FULL NAME AND ADDRESS OF INSPECTION POINT:
.....
.....
.....

(K) COUNTRY OF ORIGIN:

(L) SURPLUS MATERIAL:

TENDERERS MUST INDICATE IF THEY WILL BE PREPARED TO PURCHASE BACK FROM TRANSNET ANY SURPLUS MATERIAL WHICH MAY BECOME AVAILABLE FROM ANY RESULTING PURCHASE ORDER/CONTRACT ORIGINATED FROM THE QUOTATION SUBMITTED:
.....

(M) PAYMENT OVERSEAS

ONLY IF TRANSNET LIMITED IS REQUESTED BY THE TENDERER TO EFFECT PAYMENT OVERSEAS DIRECT TO THE TENDERER'S PRINCIPAL/SUPPLIER THE FOLLOWING INFORMATION IS REQUIRED:

* EXCHANGE RATE ON WHICH THE QUOTATION PRICE IS BASED: R1,00 (S.A. CURRENCY) BEING EQUAL TO
..... (FOREIGN CURRENCY)

* PERCENTAGE IN RELATION TO THE QUOTATION PRICE TO BE REMITTED OVERSEAS:
.....

* NAME OF COUNTRY TO WHICH PAYMENT IS TO BE MADE:
.....
.....

* APPLICABLE DATE OF EXCHANGE RATE:
.....

* BENEFICIARY'S NAME AND FULL ADDRESS:
.....
.....
.....

DATE:

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.....

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* BENEFICIARY'S BANKERS AND FULL ADDRESS:

.....
.....
.....

* APPLICABLE ACCOUNT NUMBER:

.....

(N) DELIVERY DATE:

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

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)

MATERIAL NO.	1.(PERIOD)	2.(PERIOD)	3.(PERIOD)
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

DRAWINGS

Drawings applicable to this tender may be obtained free of charge at the office of the Executive Manager, Transnet Freight Rail, 33rd Floor, Carlton Centre, 150 Commissioner Street, Johannesburg

"PREVIEW COPY ONLY"

DATE: SIGNATURE OF TENDERER(S):



SPECIFICATION FOR OPTICAL FIBRE SPlicing EQUIPMENT

1. Fusion Splicer
2. Precision Cleaver
3. Preparation Tool Kit
4. Splicing Training

SPC-00568
OCTOBER 2006

Revision 2.00

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I DOCUMENT AUTHORISATION

FUNCTION	NAME	TITLE & DIVISION	SIGNATURE	DATE
Compiled by :	BG Nel	Technologist Quality Assurance	<i>Signed</i> BG Nel	07/03/2008
Reviewed by :	F Nel	Programme Manger, Project Services	<i>Signed</i> F Nel	07/03/2008
Authorised by :	M Nuttall	Divisional Manager, Transmission Services	<i>Signed</i> M Nuttall	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	June 2001	Transmission	Old format
2.00	October 2006	Project Services	Converted to ISO standard and made minor technical changes

IV CHANGES SINCE LAST REVISION

CLAUSE	DESCRIPTION
All clauses	Converted to ISO standard
2.1.2	Change values
3.6	Change subclause
4.1	Change specification reference number

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ABBREVIATIONS, ACRONYMS AND DEFINITIONS

ABBREVIATIONS AND ACRONYMS	DESCRIPTION
AC	Alternating Current
CD	Compact Disc
dB	Decibel
DC	Direct Current
LCD	Liquid Crystal Display
MM	Multi-mode
PC	Personal Computer
PCMCIA	PC Interface Slot
RCA	Trade Name Connector
RH	Relative Humidity
SM	Single-mode

DEFINITIONS	DESCRIPTION
None	

VI

RELEVANT DOCUMENTATION**APPLICABLE**

DOCUMENT NO.	DESCRIPTION	LOCATION
SCAA-14	Training of Transnet Freight Rail Personnel on New Equipment	Document Control Centre
SCLA-59	Specification for Documentation	Document Control Centre

RELEVANT

DOCUMENT NO.	DESCRIPTION	LOCATION
SCAA-14	Has changed to SPC-00003	Document Control Centre
SCLA-59	Has changed to SPC-00004	Document Control Centre

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1. GENERAL

- 1.1 This specification describes the requirements for a Fully Automatic Fusion Splicer to be used for splicing single-mode and multi-mode fibre systems in use by Transnet Freight Rail.
- 1.2 The Fusion Splicer must be portable and rugged and designed for field usage.
- 1.3 The Fusion Splicer must be capable of splicing both Single-mode (SM) 9/125 μm and Multi-mode (MM) 50 and 62,5 / 125 μm fibres with coating diameters from 250 μm up to and including 900 μm .
- 1.4 Preference will be given to units capable of splicing within a total splice cycle time of less than 20 seconds.
- 1.5 Single-mode fibres shall be aligned and spliced via core alignment principle (local light injection) and the alignment performance shall be independent of fibre coating colour and/or buffering.
- 1.6 Multi-mode fibre alignment shall be via a profile/cladding principle and the alignment performance shall be independent of fibre coating colour and/or buffering.
- 1.7 All points of divergence from this specification must be clearly stated.

2. SPlicing PROCEDURE

- 2.1 Automatic alignment of fibres in x, y and z axes with manual override.
- 2.2 Viewing of the fibres alternately in both the x and y axes.
- 2.3 Automatic pre-fusion to clear fibre end faces of foreign objects.
- 2.4 Automatic cleave quality inspection to user defined limits with abort/warning for unacceptable cleave angles.
- 2.5 Automatic compensation of fusion parameters for atmospheric, fibre, temperature and electrode conditions.
- 2.6 Pre arc test, to test arc conditions and display results.
- 2.7 Core alignment method must be used for splicing single-mode and dispersion shifted fibres.
- 2.8 Splicer must be able to splice non-similar fibres like dispersion shifted to SMF-28.

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- 2.9 Adjustment to splice non-similar fibres must be done automatically through measurements made during the pre-fusion stage mentioned in subclause 2.3.
- 2.10 Automatic minimum tensile test of 450 grams must be done on fibre after splice has been completed.
- 2.11 Automatic splice loss estimation after fusion.
- 2.12 Constant low loss splices must be achieved - an average estimation loss of 0,01 dB or better for identical single-mode fibres, 0,02 dB or even better for multi-mode fibres and 0,05 dB for dispersion shifted fibres must be achieved.

3. MEMORY AND SOFTWARE REQUIREMENTS

- 3.1 The Fusion Splicer shall be capable of storing a minimum of 10 pre-defined factory-splicing programs in internal non-volatile memory for recall.
- 3.2 The Fusion Splicer shall be capable of storing a minimum of 20 user-defined splicing programs in internal non-volatile memory for recall. The splicer settings must be automatically (self-learning) as per subclause 2.5.
- 3.3 The Fusion Splicer shall be capable of storing data of 1000 splice results in built in memory.
- 3.4 The Fusion Splicer shall be capable of automatically calculate and set fusion parameters for various fibre types as well as altitude correction. This data must be stored as a user-defined splicing program.
- 3.5 The Fusion Splicer must be supplied with PC communication software package to facilitate the editing of splicing parameters, loading/downloading of splice programs and to enable print out and storage of splice results and splicer settings.
- 3.6 The software must operate with Windows 2000 and Windows XP type operating systems.
- 3.7 The option for a further 14 000 to 30 000 splices data, or 100 splice images, must be stored on a PCMCIA memory card.

4. DISPLAY REQUIREMENTS

- 4.1 The Fusion Splicer shall be equipped with high-resolution LCD monitor, which forms an integral part of the equipment. The image on the LCD monitor must be clearly visible in the field with bright sunlight.

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- 4.2 The display shall facilitate viewing of the fibres as follows :
- 4.2.1 X and Y axes of both fibre ends prior to fusion.
 - 4.2.2 Fibre end face angle prior to fusion.
 - 4.2.3 The fibres during arc cleaning and fusion process.
 - 4.2.4 Fibre splice in both the x and y axes after fusion preferable without moving parts.
 - 4.2.5 Estimated splice loss value in dB .
 - 4.2.6 Splice abnormalities or acceptability.
 - 4.2.7 The "hot images" of the splice taken during fusion in both x and y axes.
 - 4.2.8 Estimated splice loss value.
 - 4.2.9 Splicing abnormalities.
- 4.3 The display shall furthermore facilitate viewing of splicing programs, splicing parameters and other set-ups for editing purposes. User dropdown menus to be incorporated in user interface.
- 5. POWER SUPPLY REQUIREMENTS**
- 5.1 AC Operation : 90 to 260 volts, 50 to 60 Hz .
 - 5.2 DC Operation : 10,5 to 14 volts.
 - 5.3 A 3 metre DC power cord terminated in crocodile clamps must be included with the unit.
- 6. REMOTE INTERACTIVE MAINTENANCE SYSTEM**
- 6.1 It must be possible to remotely upload and download new software versions.
 - 6.2 It must be possible to transmit video camera images via the build-in modem card.
 - 6.3 It must be possible to remotely adjust the operating parameters or locate and identify problems in the field.
 - 6.4 Remote communication to the splicer via a dial-up connection must be possible.

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7. ENVIRONMENTAL CONDITIONS

- 7.1 Operating Temperature : -10 °C to 50 °C
- 7.2 Operating Humidity : Maximum 95% RH (non-condensing)
- 7.3 Altitude : 0 – 3600 m
- 7.4 Storage Temperature : -40 °C to 70 °C

8. EXTERNAL CONNECTIONS

- 8.1 Data communication RS323 interface for the down loading of splice data to a PC, printing of splice data, updating of splice software and performing diagnostics.
- 8.2 RCA video output.
- 8.3 AC input 220 volt AC 50 Hz .
- 8.4 DC input 12 volt DC.
- 8.5 DC output 12 volt DC for powering other accessories.

9. PROTECTIVE CASING

- 9.1 The Fusion Splicer must be portable and supplied in a suitable protective (hard) case with suitable accommodation for all accessories.
- 9.2 Tenderers must state the type of material the protective case is manufactured from.

10. OVEN FOR SHRINKING OF SPLICE PROTECTORS

- 10.1 The Fusion Splicer must include a heat oven for shrinking of splice protectors. The heat oven temperature and timing must be adjustable to accommodate and compensate for varying splice protectors and environmental conditions respectively.
- 10.2 The splicing unit must be available without the heat oven as an option.

11. PRECISION CLEAVER

- 11.1 The Fusion Splicer must be accompanied by a precision cleaver capable of :
- 11.1.1 Fibre type : 250 µm and 900 µm jacketed single fibre.

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- 11.1.2 Clad diameter : 80 μm to 150 μm .
- 11.1.3 Cleave length : 12 mm to 20 mm .
- 11.1.4 Typical cleave angle : 0,5°.
- 11.1.5 Blade life : > 36 000 fibre cleavings.
- 11.1.6 Blade type : Circular blade with 12 cutting positions.

12. PREPARATION TOOL KIT

12.1 The Fusion Splicer must be supplied with a fibre preparation tool kit which includes the following minimum requirements :

- 12.1.1 250 μm Primary Coat stripper.
- 12.1.2 900 μm tight buffer stripper.
- 12.1.3 High leverage Kevlar Shear.
- 12.1.4 1,6 mm to 3 mm Jacket remover.
- 12.1.5 99,5% Isopropyl alcohol (400 ml).
- 12.1.6 Cable stripper.
- 12.1.7 Canned, 100% residue filtered compressed air, 400 ml .
- 12.1.8 Fibre scrap bin.

13. TRAINING

13.1 Tenderers must quote separately for training in optical fibre splicing. Training must be conducted at the regional installation depots.

- 13.1.1 Cost per session.
- 13.1.2 Number of sessions.
- 13.1.3 Number of candidates that can be accommodated per session.

13.2 Training must comply with Transnet Freight Rail specification SPC-00003.

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14. DOCUMENTATION

- 14.1 Complete set of official technical handbooks, service manuals, user handbooks and drawings must be supplied for all aspects of equipment offered as per Transnet Freight Rail specification SPC-00004.
- 14.2 All documentation must be available on CD.

END OF DOCUMENT

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