



# RFQ / TENDER

**Tender No:** HAW 105

**Vendor No:** 11001386

BOARD LIST  
BOARD LIST  
TRANSNET FREIGHT RAIL  
PROCUREMENT DEPARTMENT  
2000

**Purchaser :** Helena Walster  
**Telephone :** 011 584 0604  
**Fax Number:**

**Please quote reference:**  
DD3/6000574668

**Deliver to:**  
TFR Head Office  
Supply Chain Services  
2000 Johannesburg

**Closing Date :** 31.01.2012  
**Validity Date :** 28.04.2012  
**RFQ No :** 6000574668

**1. RETURN OF QUOTATION/S:**

1.1 QUOTATION/S 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 MUST HAVE INSCRIBED ON THE OUTSIDE: TENDER NO: HAW 105, DESCRIPTION: TRUNK PORTABLE RADIO

DATE AND TIME: 31 JANUARY 2012 AT 10:00

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 (CONDITONAL 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: .....

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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](http://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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**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.

## 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: .....

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## 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 (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      600      UHF Radios

R.....  
Each

**Delivery Date:** 20.02.2012

### FULL DETAILS OF DESCRIPTION

UHF(400-470MHZ) FULL FEATURE MPT 1327TRUNK PORTABLE RADIO, WITH A MINIMUM OF 260 CONVENTIONAL 12,5 CHANNELS, CAPABLE OF A MINIMUM OF 120 SCAN GROUPS WITH A MINIMUM OF 5 CHANNELS PER GROUP. COMPLETE WITH ANTENNA AND HIGH CAPACITY BATTERY CAPABLE OF SUSTAINING A 20-20-60 DUTY CYCLE FOR AN 8 HOUR SHIFT. EQUIPMENT MUST COMPLY TO SPECIFICATION BBF2516 DATED OCTOBER 2011 ATTACHED.  
TRANSNET DOES NOT COMMIT ITSELF TO PROCURING THE FULL AMOUNT OF RADIOS AS PER RFQ.  
QUANTITY WILL BE DETERMINED AT ADJUDICATION. REQUIRED AT 2 FOLEY STREET FACTORIA LUIPAARDSVLEI A CLAUSE BY CLAUSE STATEMENT OF COMPLIANCE TO SPECIFICATION MUST BE SUBMITTED.

00020      600      HIGH CAPACITY BATTERIES

R.....  
Each

**Delivery Date:** 20.02.2012

### FULL DETAILS OF DESCRIPTION

HIGH CAPACITY BATTERY TO FIT ITEM 1, CAPABLE OF SUSTAINING A 20-20-60 DUTY CYCLE FOR A 8 HOUR SHIFT (TX,RX,STANDBY) TRANSNET DOES COMMIT ITSELF TO PROCURE THE FULL AMOUNT OF BATTERIES. QUANTITY WILL BE DETERMINED AT DURING ADJUDICATION PERIOD. REQUIRED AT 2 FOLEY STREET FACTORIA LUIPAARDSVLEI

00030      600      SINGLE BAY RAPID RATE CHARGER

R.....  
Each

**Delivery Date:** 20.02.2012

### FULL DETAILS OF DESCRIPTION

SINGLE BAY RAPID RATE CHARGER FOR ITEM 1. PROVISION MUST BE MADE FOR A STANDARD 3 PIN MAINS ADAPTOR IF CHARGER HAS A TWO PIN MAINS PLUG. TRANSNET DOES NOT COMMIT ITSELF TO PROCURE THE FULL AMOUNT OF CHARGERS AS PER RFQ. QUANTITIES WILL BE DETERMINED DURING ADJUDICATION PERIOD. REQUIRED AT FACTORIA

DATE: .....

SIGNATURE OF TENDERER(S): .....

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Item	Qty	Material	Description
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00040            600            LEATHER CARRY BAG FOR ITEM 1

R.....  
Each

**Delivery Date:** 20.02.2012

**FULL DETAILS OF DESCRIPTION**

LEATHER CARRY BAG FOR ITEM 1 WITH SHOULDER STRAP. TRANSNET DOES NOT COMMIT ITSELF TO PROCURE THE FULL AMOUNT OF RADIOS AS PER RFQ. QUANTITIES WILL BE DETERMINED DURING THE ADJUDICATION PERIOD. REQUIRED AT FACTORIA

00050            5                PROGRAMMING SOFTWARE FOR ITEM 1

R.....  
Each

**Delivery Date:** 20.02.2012

**FULL DETAILS OF DESCRIPTION**

PROGRAMMING SOFTWARE FOR ITEM 1

00060            5                PROGRAMMING H/WARE:

R.....  
Each

**Delivery Date:** 20.02.2012

**FULL DETAILS OF DESCRIPTION**

PROGRAMMING HARDWARE: LEADS AND ADAPTORS FOR ITEM 1 TRANSNET DOES NOT COMMIT ITSELF IN PROCURING THE FULL AMOUNT OF RADIOS AS PER RFQ. QUANTITIES WILL BE DETERMINED DURING THE ADJUDICATION PERIOD REQUIRED AT FACTORIA

00070            5                SET OF WORKSHOP MANUAL

R.....  
Each

**Delivery Date:** 20.02.2012

**FULL DETAILS OF DESCRIPTION**

SET OF WORKSHOP MAUALS/TECHNICAL HANDBOOK FOR ITEM1. WINDOWS COMPATIBLE ON CD ROM

00080            1                TRAINING FOR 10 PEOPLE

R.....  
Each

**Delivery Date:** 20.02.2012

DATE: .....

SIGNATURE OF TENDERER(S): .....

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Item	Qty	Material	Description
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**FULL DETAILS OF DESCRIPTION**

TRAINING FOR 10 PEOPLE AT SUPPLIERS PREMISES

00090            1            TRAINING FOR 10 PEOPLE IN JHB

R.....  
Each

**Delivery Date:** 20.02.2012

**FULL DETAILS OF DESCRIPTION**

Preview Copy Only

DATE: .....

SIGNATURE OF TENDERER(S): .....

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**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 UNTIL ..... THEREAFTER SUBJECT TO REVIEW.

(D) 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)
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

DATE: .....

SIGNATURE OF TENDERER(S): .....

A Division of Transnet Limited  
Registration Number 1990/000900/06

# **SPECIFICATION FOR UHF HANDHELD CONVENTIONAL AND TRUNK / CONVENTIONAL COMBINED RADIOS**

**Specification number BBF2516**

**OCTOBER 2011**

**Revision 1.00**



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Preview Copy Only

## UHF Handheld Conventional and Trunk / Conventional Combined Radios BBF2516

### Document Authorisation

FUNCTION	NAME	TITLE & DIVISION	SIGNATURE	DATE
Compiled by:	Rob Yates	Technical Manager Rail Network Telecoms		
Reviewed by:	Graeme Daly	Divisional Manager Telecoms Access		
Reviewed by:	Pierre du Plessis	Rail Network Telecoms Quality Assurance		
Reviewed by:	Francois Nel	Divisional Manager (Technical Execution)		
Authorised by:	Michael Nuttall	Divisional Manager (Transmission)		

**I 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.

**II DOCUMENT CHANGE HISTORY**

ISSUE NUMBER	DATE ISSUED	ISSUED BY	HISTORY DESCRIPTION

**III CHANGES SINCE LAST REVISION**

PARAGRAPH	DESCRIPTION

**IV ABBREVIATIONS, ACRONYMS AND DEFINITIONS**

ABBREVIATIONS AND ACRONYMS	DESCRIPTION
<b>TFR</b>	Transnet Freight Rail
<b>RNTT</b>	Rail Network Transport Telecoms
<b>SABS</b>	SA Bureau of Standards. Now, Standards SA, ( <b>SSA</b> )
<b>SSA</b>	Standards SA

**V RELEVANT DOCUMENTATION APPLICABLE**

Where there is a conflict between the SPECIFICATION and SCHEDULE OF REQUIREMENT DOCUMENT, the SCHEDULE OF REQUIREMENT DOCUMENT takes precedence.

The equipment must comply with the latest issue of the following applicable specifications:

DOCUMENT NO.	DESCRIPTION	LOCATION
ISO 9000	Quality Management Systems	External
ETSI EN 300 086	European Telecommunication Standards for Radios	External
BS3939	British Department of Trade and Industry Specification:	External
MPT 1317	Code of Practice for Transmission of Digital Information over Land Mobile Radio Systems	External
MPT 1327	A signalling Standard for Trunk Private Mobile Radio Systems	External
MPT 1343	System Interface Specification for Radio Units to be used with Commercial Trunk Networks	External
BBD8635	Technical specifications and methods of measurement for angle modulated equipment	Internal

## 1. INTRODUCTION

Transnet Freight Rail utilise portable conventional and /or trunk / conventional UHF radio equipment to control shunting movements.

## 2. SCOPE

2.1. This specification is for the supply of the above radio equipment and accessories as per attached Schedule of Requirements (Appendix A).

2.2. It is envisaged that equipment for this enquiry will be ordered and supplied to Freight Rail's nominated address during the period \_\_\_\_\_

## 3. COMPLIANCE

3.1. Tenderers shall submit their main offers in terms of this specification, and shall indicate in their proposal document the compliance to this specification.

3.2. Alternative offers, will be considered at Freight Rail's discretion, provided that such offers provide equivalent functionality to that specified in this document. Separate compliance documents must be completed for each alternative offer

## 4. TENDER REQUIREMENTS

ITEM	DESCRIPTION	Comply Y/N	REMARKS
4.1	Tenderers shall submit a clause-by-clause statement of compliance for this <b>Specification</b> in the columns provided. Failure to comply will exclude Tenderers from consideration.		
4.2	Tenderers shall submit a clause-by-clause statement of compliance for equipment / items offered on the attached <b>Schedule of Requirements (Appendix A)</b> in the columns provided. Failure to comply will exclude Tenderers from consideration.		
4.3	Tenderers shall complete the attached <b>Cost Schedule (Appendix B)</b> for equipment. Tenderers will be excluded from supplying any items not priced.		
4.4	Freight Rail will carry out all programming and installation of the supplied equipment.		
4.5	Make and model offered must be indicated next to each item on the schedule of requirements		
4.6	Technical specifications for items offered must be submitted		
4.7	Warranty period, terms and conditions to be indicated. (courier costs, turn – around time for repairs, etc)		
4.8	Birth date of radio (when was it released into the market)		
4.9	Date expected to be withdrawn (replaced, superseded) from the market.		
4.10	Spares and technical support must be readily available locally for a period of at least seven years from date of purchase.		
4.11	Tenderer must be equipped to carry out warranty repairs and technical support on own premises		
4.12	Delivery period will be a deciding factor as radios are required urgently.		
4.13	This document must be read in conjunction with document BBD8635		

## 5. GENERAL REQUIREMENTS

ITEM	DESCRIPTION	Comply Y/N	REMARKS
5.1	The radios must be ICASA type approved, certificates to be submitted		
5.2	The radios must be Transnet Freight Rail type approved as per document BBD8635.		
5.2.1	Radios that comply with document BBD8635, but not yet Transnet evaluated, must be submitted to the Transnet national test centre prior to, or, within one week after tender closure at 2 Foley St. Fectoria, Krugersdorp, Gauteng, attention Pierre du Plessis 011 774 8227.		
5.2.2	All programming software, accessories, test interface box / cables, service manuals, ICASA certificate, etc. must accompany the radio when being evaluated. Refer to document BBD8635, for requirements		
5.3	The handheld radio RF output power must be software selectable between 1 and 4 watts.		
5.4	The receiver loudspeaker must comply with a sound pressure level equal to or better than 90dB (A) at 300mm. Refer to document BBD8635 for test method		
5.5	The transmitter deviation must be equal to or better than 1.4Khz from a sound pressure level of 80dB (A) at the microphone. Refer to document BBD8635 for test method		
5.6	Radios must be capable of handling a frequency switching bandwidth of 15 MHz on both transmit and receive between channels with no degradation.		
5.7	Radio must be capable of a minimum of 124 scan groups with a minimum of 5 channels per scan group in the conventional mode		
5.8	The selection between trunk and conventional modes must be easily selectable.		
5.9	Radios must be programmable in the 400 – 470 Mhz band without signal degradation		
5.10	Radio must operate with 12,5Khz channel spacing		
5.11	Radios must be IP67 compliant		
5.12	Radio must be of robust construction		

ITEM	DESCRIPTION	Comply Y/N	REMARKS
5.13	Battery capacity must be capable of sustaining an 8 hour, 20, 20, 60 duty cycle, shift. (Tx, Rx, Standby)		
5.14	Standard conventional Portables must have a minimum of 132 channels		
5.15	Trunk portables must have a minimum of 260 conventional channels		
5.16	Radio display must be visible in sun light		
5.17	Radio display must be back lit for night operation		
5.18	Radio display must have a minimum of twelve alpha numeric characters		
5.19	It must be possible to assign a alpha – numeric label to each conventional channel		
5.20	Radio key pad must have automatic lock - out facility after a channel has been selected		
5.21	Rotary channel selector switch must be able to be disabled with software.		
5.22	Trunk radio must operate in accordance with MPT 1327 and MPT 1343 specifications.		
5.23	Trunk portables must be compatible with the Transnet trunk network		
5.24	Programming software must be Microsoft Windows compatible.		
5.25	Programming software must be on CD-ROM		
5.26	Service manuals must be in English		
5.27	Service manuals must be available on CD-Rom		
5.28	Hard copy service manuals must be original or of the same standard as the original, if required		



**6. TRAINING**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>Comply Y/N</b>	<b>REMARKS</b>
6.1	Training required on products will be indicated in the schedule of requirements		
6.2	Tenderers must be in a position to provide training on all products offered		

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**APPENDIX A: SCHEDULE OF REQUIREMENTS****SCHEDULE OF REQUIREMENTS FOR UHF TRUNK / CONVENTIONAL PORTABLE RADIOS WITH ACCESSORIES**

- Tenders are invited in respect of the following Schedule of Requirements.
- Tenderers must indicate compliance with each item and indicate make and model being offered.
- Alternate offers must be indicated on separate documents

ITEM	DESCRIPTION	COMPLY YES/ NO / N/A	MAKE	MODEL
1	UHF, (400 – 470Mhz band) Full feature, MPT 1327 Trunk Portable radio, with a minimum of 260 conventional 12,5khz channels, capable of a minimum of 120 scan groups with a minimum of 5 channels per group. Complete with antenna and high capacity battery capable of sustaining a 20 - 20 - 60 duty cycle for an 8 hour shift. <b>Must comply with attached Specification and document BBD8635.</b>			
1.1	High capacity Battery to fit item 1, capable of sustaining a 20 - 20 - 60 duty cycle for a 8 hour shift (Tx, Rx, Standby)			
1.2	Single bay rapid rate Charger for item 1. Provision must be made for a standard 3 pin mains adaptor if charger has a two pin mains plug			
1.3	Leather carry bag for item 1 with shoulder strap			
2	Programming software for item 1			
3	Programming hardware: Leads and adaptors for item1			
4	Set of workshop manual/ technical handbook for item 1. Windows compatible on CD ROM			
5	Training:- If required, For programming and repair			
5.1	Training for 10 Personnel at suppliers premises			
5.2	Training for 10 Personnel at Transnet premises in Johannesburg			

**APPENDIX B & C: BILL OF QUANTITIES AND COST SCHEDULE**

Indicate the cost per unit for the quantities indicated in the respective columns

**Quantities will be determined at time of adjudication**

ITEM	DESCRIPTION	QTY	QTY 101 -300	QTY 301 - 400	QTY 401 - 500	QTY 501 - 600
1	UHF, (400 – 470Mhz band) Full feature, MPT 1327 Trunk Portable radio, with a minimum of 260 conventional 12,5khz channels and capable of a minimum of 120 scan groups with a minimum of 5 channels per group. Complete with battery and quarter wave flexible whip antenna to cover the 455 to 465 mhz band. <b>Must comply with attached Specification and document BBD8635.</b>					N/A
1.1	High capacity Battery to fit item 1, capable of sustaining a 20 - 20 - 60 duty cycle for a 8 hour shift. (Tx, Rx, Standby)					N/A
1.2	Single bay rapid rate Charger for item 1. Provision must be made for a standard 3 pin mains adaptor if charger has a two pin mains plug					N/A
1.3	Leather carry bag for item 1 with shoulder strap					N/A
2	Programming software for item 1	5				N/A
3	Programming Accessories: Leads and adaptors for item1	5				N/A
4	Set of workshop manual/ technical handbook for item 1 on CD ROM	5				N/A
5	Training:- If required, For programming and repair					N/A
5.1	Training for 10 Personnel at suppliers premises	1				N/A
5.2	Training for 10 Personnel at Transnet premises in Johannesburg	1				N/A

**APPENDIX D: DELIVERY PERIOD**

Indicate the delivery period, in weeks, for the quantities as indicated in the bill of quantities above: **DELIVERY IS REQUIRED BEFORE THE 16<sup>TH</sup> OF MARCH 2012**

ITEM	DESCRIPTION	QTY 101 -300	QTY 301 - 400	QTY 401 – 500	QTY 501 - 600
1	UHF, (400 – 470Mhz band) Full feature, MPT 1327 Trunk Portable radio, with a minimum of 260 conventional 12.5khz channels and capable of a minimum of 120 scan groups with a minimum of 5 channels per group. Complete with antenna and battery. <b>Must comply with attached Specification and document BBD8635..</b>				N/A
1.1	High capacity Battery to fit item 1, capable of sustaining a 20 - 20 - 60 duty cycle for a 8 hour shift (Tx – Rx – Standby)				N/A
1.2	Single bay rapid rate Charger for item 1. Provision must be made for a standard 3 pin mains adaptor if charger has a two pin mains plug				N/A
1.3	Leather carry bag for item 1 with shoulder strap				N/A
2	Programming software for item 1				N/A
3	Programming Accessories: Leads and adaptors for item1				N/A
4	Set of workshop manual/ technical handbook for item 1				N/A
5	Training:- If required, For programming and repair				N/A
5.1	Training for 10 Personnel at suppliers premises				N/A
5.2	Training for 10 Personnel at Transnet premises in Johannesburg				N/A

**APPENDIX E: DELIVERY SCHEDULE**

The supplied equipment must be delivered to the following location.

TRANSNET RAIL NETWORK  
TRANSPORT TELECOMS  
2 Foley St.  
Factoria  
Krugersdorp  
Gauteng  
1739

GPS: S26 7' 04.8" E27 24' 22.5"

**CONTACT: Prior to delivery**

Rob Yates  
011 774 8204  
011 583 0126  
083 286 5439

OR

Freddie Visser  
011 583 0125  
011 774 8213  
083 286 5441

**TECHNICAL QUERIES**

Rob Yates  
011 774 8204  
011 583 0126  
083 286 5439

Financial Reference:  
Warrant S004

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