

- 1.5 Failure on the part of a tenderer to submit proof or documentation required in terms of this tender to claim points for specific goals with the tender, will be interpreted to mean that preference points for specific goals are not claimed.
- 1.6 The organ of state reserves the right to require of a tenderer, either before a tender is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the organ of state.

## 2. DEFINITIONS

- (a) **“tender”** means a written offer in the form determined by an organ of state in response to an invitation to provide goods or services through price quotations, competitive tendering process or any other method envisaged in legislation;
- (b) **“price”** means an amount of money tendered for goods or services, and includes all applicable taxes less all unconditional discounts;
- (c) **“rand value”** means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;
- (d) **“tender for income-generating contracts”** means a written offer in the form determined by an organ of state in response to an invitation for the origination of income-generating contracts through any method envisaged in legislation that will result in a legal agreement between the organ of state and a third party that produces revenue for the organ of state, and includes, but is not limited to, leasing and disposal of assets and concession contracts, excluding direct sales and disposal of assets through public auctions; and
- (e) **“the Act”** means the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000).

## 3. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

### 3.1. POINTS AWARDED FOR PRICE

#### 3.1.1 THE 80/20 OR 90/10 PREFERENCE POINT SYSTEMS

A maximum of 80 or 90 points is allocated for price on the following basis:

$$Ps = 80 \left( 1 - \frac{Pt - P_{min}}{P_{min}} \right) \quad \text{or} \quad Ps = 90 \left( 1 - \frac{Pt - P_{min}}{P_{min}} \right)$$

80/20                      or                      90/10

Where

- Ps = Points scored for price of tender under consideration
- Pt = Price of tender under consideration
- Pmin = Price of lowest acceptable tender

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### 3.2. FORMULAE FOR DISPOSAL OR LEASING OF STATE ASSETS AND INCOME GENERATING PROCUREMENT

#### 3.2.1. POINTS AWARDED FOR PRICE

A maximum of 80 or 90 points is allocated for price on the following basis:

$$\begin{array}{ccc} 80/20 & \text{or} & 90/10 \\ P_s = 80 \left( 1 + \frac{P_t - P_{max}}{P_{max}} \right) & \text{or} & P_s = 90 \left( 1 + \frac{P_t - P_{max}}{P_{max}} \right) \end{array}$$

Where

- $P_s$  = Points scored for price of tender under consideration  
 $P_t$  = Price of tender under consideration  
 $P_{max}$  = Price of highest acceptable tender

#### 4. POINTS AWARDED FOR SPECIFIC GOALS

- 4.1. In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the goals stated in table 1 below as may be supported by proof/ documentation stated in the conditions of this tender;
- 4.2. In cases where organs of state intend to use Regulation 3(2) of the Regulations, which states that, if it is unclear whether the 80/20 or 90/10 preference point system applies, an organ of state must, in the tender documents, stipulate in the case of—
- (a) an invitation for tender for income-generating contracts, that either the 80/20 or 90/10 preference point system will apply and that the highest acceptable tender will be used to determine the applicable preference point system; or
  - (b) any other invitation for tender, that either the 80/20 or 90/10 preference point system will apply and that the lowest acceptable tender will be used to determine the applicable preference point system,

then the organ of state must indicate the points allocated for specific goals for both the 90/10 and 80/20 preference point system.

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Table 1: Specific goals for the tender and points claimed are indicated per the table below.

(Note to organs of state: Where either the 90/10 or 80/20 preference point system is applicable, corresponding points must also be indicated as such.

Note to tenderers: The tenderer must indicate how they claim points for each preference point system.)

The specific goals allocated points in terms of this tender	Number of points allocated (90/10 system) (To be completed by the organ of state)	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (90/10 system) (To be completed by the tenderer)	Number of points claimed (80/20 system) (To be completed by the tenderer)

#### DECLARATION WITH REGARD TO COMPANY/FIRM

4.3. Name of company/firm: .....

4.4. Company registration number: .....

4.5. TYPE OF COMPANY/ FIRM

- ☐ Partnership/Joint Venture / Consortium
- ☐ One-person business/sole propriety
- ☐ Close corporation
- ☐ Public Company
- ☐ Personal Liability Company
- ☐ (Pty) Limited
- ☐ Non-Profit Company
- ☐ State Owned Company

[TICK APPLICABLE BOX]

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4.6. I, the undersigned, who is duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the specific goals as advised in the tender, qualifies the company/ firm for the preference(s) shown and I acknowledge that:

- i) The information furnished is true and correct;
- ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
- iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 4.2, the contractor may be required to furnish documentary proof to the satisfaction of the organ of state that the claims are correct;
- iv) If the specific goals have been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the organ of state may, in addition to any other remedy it may have –
  - (a) disqualify the person from the tendering process;
  - (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
  - (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
  - (d) recommend that the tenderer or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted from obtaining business from any organ of state for a period not exceeding 10 years, after the *audi alteram partem* (hear the other side) rule has been applied; and
  - (e) forward the matter for criminal prosecution, if deemed necessary.

.....	
SIGNATURE(S) OF TENDERER(S)	
SURNAME AND NAME:	.....
DATE:	.....
ADDRESS:	.....
	.....
	.....
	.....
	.....

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**SPECIFICATION FOR SUPPLY, DELIVERY AND PRODUCT TRAINING FOR TERRESTRIAL TRUNKED (TETRA) RADIO MOBILE TERMINALS FOR GAUTENG, EASTERN CAPE AND OTHER SAPS DIVISIONS.**

**SCOPE OF REQUIREMENT**

This specification calls for the supply, delivery and product training of **TETRA MOBILE TERMINAL** and accessories for the South African Police Service (SAPS) for a period of two (2) years.

Bidders shall be responsible for the delivery of the above-mentioned radios and all additional or associated equipment as outlined in this document to Gauteng, Eastern Cape and other SAPS Divisions.

This requirement is for a **two year** contract period. The procurement of the radios shall take place when the bid has been successfully awarded. **Quantities are price dependable and cannot be guaranteed.**

This bid will be awarded as a whole.

**DOCUMENT FORMAT**

This document is divided into four (4) sections subsections viz.

1. Bid Conditions
2. General Requirements
3. General Technical Requirements
4. Price Schedule and Appendixes

**IMPORTANT NOTICE**

Bidders' attention is drawn to the bid conditions as specified in section 1 of this document and specifically to paragraph 1.1

Bidders shall strictly follow the guidelines as specified in this section to ensure that the completion of the bid document complies in all aspects to the requirements of the SAPS.

Disregarding this notice and the guidelines as specified in section 1, will result in that the SAPS will not consider and evaluate the bidders offer.

Bidders are also requested to complete the documents and supply all information to the best of their ability as requested by the SAPS

One (1) set of original documentation and 2 sets of copies as per section 2.4 of this document.

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**SPECIFICATION FOR SUPPLY, DELIVERY AND PRODUCT TRAINING FOR TERRESTRIAL TRUNKED (TETRA) RADIO MOBILE TERMINALS FOR GAUTENG, EASTERN CAPE AND OTHER SAPS DIVISIONS.**

DESCRIPTION		COMPLY / DO NOT COMPLY
1.	<b>BID CONDITIONS</b>	
1.1	<b>COMPLETION OF BID DOCUMENTS</b>  Bidders shall explicitly state either " <b>Comply</b> " or " <b>Do not Comply</b> " regarding all the requirements outlined in this document, except where otherwise stated. Bidders shall avoid terms such as "yes", "no", "Noted", "accepted", "as specified", "see attached letters", etc.	STATE:
1.2	<b>CERTIFICATE OF APPROVAL</b>  A certificate of approval from the Independent Communications Authority of South Africa (ICASA) for the use of the radio equipment offered in the Republic of South Africa (RSA) must be submitted with the bid documents. The radio offered and model number on the ICASA Certificate must be the same. Failure to submit this certificate of approval on time and date of bid closure will result in the non-acceptance of the bidder's offer.	STATE:
1.3	<b>TETRA INTEROPERABILITY PROFILE (TIP) CERTIFICATION/ DOCUMENT</b>  The radio offered shall comply with the requirements of an International Independent Test facility. The bidder shall provide proof of a TIP (TETRA Interoperability Profile) Certificate/ Document with the bid documents for compliance of this product to operate on the TETRA open ETSI standard protocol.	STATE:
1.3.1	The bidder shall provide a TIP Certificate/Documentation to indicate to which TETRA manufacturer's Infrastructure the radio interfaces.	STATE:
1.4	<b>TECHNOLOGY</b>  The Bidder shall ensure that the Mobile radio offered is of the latest technology and the latest available model and software release. The SAPS reserves the right to procure the latest and newest technology releases.	STATE:

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**SPECIFICATION FOR SUPPLY, DELIVERY AND PRODUCT TRAINING FOR TERRESTRIAL TRUNKED (TETRA) RADIO MOBILE TERMINALS FOR GAUTENG, EASTERN CAPE AND OTHER SAPS DIVISIONS.**

DESCRIPTION		COMPLY / DO NOT COMPLY
1.5	<p><b>INDEMNIFICATION</b></p> <p>The SAPS will not be responsible for any costs resulting in damage done to the equipment offered during testing or evaluation according to this specification.</p>	STATE:
1.6	<p><b>ASSUMPTIONS MADE BY BIDDERS</b></p> <p>No assumptions shall be made by bidders in their bid reply.</p>	STATE:
1.6.1	<p>It shall be the bidder's responsibility to obtain all information required to submit a comprehensive bid that makes provision for all requirements. In the event of any uncertainties regarding the interpretation of the requirements or specifications, the bidder shall clarify such uncertainties with the SAPS.</p>	STATE:
1.7	<b>SAMPLE</b>	
1.7.1	<p>A complete sample including Radio, Mounting brackets, Loudspeaker, Microphone, Cables, Programming software and programming cable or kit of the radio terminals the bidder intends to offer shall be requested from the <b>recommended bidder</b> after the first phase of evaluation criteria. The sample will be tested at the SAPS premises and the Bidders premises. The sample shall include the following :</p> <p>Complete TETRA mobile radio with a complete kit or accessories.</p> <p>All accessories to ensure a full working sample shall be submitted.</p>	STATE:
1.7.2	<p>Bidders shall be notified by email to collect their sample(s) as mentioned above after adjudication period. Samples must be collected within one (1) month after this notification.</p> <p>The sample of the successful bidder shall stay in possession of the SAPS for the first year of the contract. This is needed to ensure that the final product is identical to the sample offered to the SAPS for adjudication.</p>	STATE:
1.7.3	<p>The SAPS reserves the right to dispose of any sample or samples in any way they deemed fit, one (1) month after the above-mentioned notification. No exceptions will be made.</p>	STATE:

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**SPECIFICATION FOR SUPPLY, DELIVERY AND PRODUCT TRAINING FOR TERRESTRIAL TRUNKED (TETRA) RADIO MOBILE TERMINALS FOR GAUTENG, EASTERN CAPE AND OTHER SAPS DIVISIONS.**

DESCRIPTION		COMPLY / DO NOT COMPLY
1.8	<b>COMPULSORY REQUIREMENTS</b>	
1.8.1	Certificate of approval from ICASA as per paragraph 1.2	STATE:
1.8.2	TIP Certificate/Document as per paragraph 1.3	STATE:
1.8.3	Availability of spares as per paragraph 2.11	STATE:
1.8.4	Certificate of compliance as per paragraph 3.5	STATE:
1.9	<b>COMPULSORY BRIEFING SESSION</b>	
1.9.1	Bidders shall attend a compulsory briefing session, venue, date and time of the compulsory briefing will be communicated to the bidders.	STATE:

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**SPECIFICATION FOR SUPPLY, DELIVERY AND PRODUCT TRAINING FOR TERRESTRIAL TRUNKED (TETRA) RADIO MOBILE TERMINALS FOR GAUTENG, EASTERN CAPE AND OTHER SAPS DIVISIONS.**

DESCRIPTION		COMPLY/ DO NOT COMPLY
2	<b>GENERAL REQUIREMENTS</b>	
2.1	<b>SCOPE OF REQUIREMENT</b>	
2.1.1	A reliable and robust, TETRA mobile terminal is required by the SAPS.	STATE:
2.1.2	The radio shall be constructed in such a way that repairs to modular level shall be easily performed.	STATE:
2.1.3	The radio shall be offered with all the necessary accessories as a complete unit to either allow dash or boot mounted installation in a vehicle.	STATE:
2.1.4	The radio shall fully comply with the requirements of this specification.	STATE:
2.1.5	Bidders shall offer the Radio with a minimum of 2 to 6 Watt TETRA mobile with GPS capability and end to end encryption.	STATE:
2.1.6	<p>The accessories needed for the mobile radio are the following;</p> <ul style="list-style-type: none"> <li>• Microphone,</li> <li>• An external loudspeaker,</li> <li>• Mounting brackets</li> <li>• Cabling for installation,</li> <li>• A boot mount kit. [E.g. cable between control head and radio, etc.] shall be 3 and 6 meters in length.</li> </ul>	STATE:
2.2	<b>IDENTIFICATION</b>	STATE:
	The radio shall be fitted with labels indicating at least the manufacturers' name or trademark, model number and unique serial number. These labels shall be permanently attached to the radio.	
2.2.1	The serial number shall also be reproduced inside the radio in an inconspicuous position and included in the read-only memory in the radio, readable via the manufacturers programming software.	STATE:

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**SPECIFICATION FOR SUPPLY, DELIVERY AND PRODUCT TRAINING FOR TERRESTRIAL TRUNKED (TETRA) RADIO MOBILE TERMINALS FOR GAUTENG, EASTERN CAPE AND OTHER SAPS DIVISIONS.**

DESCRIPTION		COMPLY/ DO NOT COMPLY
2.3	<b>TIME SCHEDULE</b>	
2.3.1	It is a requirement of this Bid that delivery shall commence not later than <b>eight (8)</b> weeks after an official order has been received by the successful bidder and that the pre-delivery inspection shall be finalized within <b>six (6)</b> weeks after the official order has been received.	STATE:
2.3.2	Non-compliance to the above-mentioned delivery date will result in the enforcement of penalties in terms of paragraph 22 of General Conditions of contract.	STATE:
2.4	<b>DOCUMENTATION</b>	
2.4.1	The TETRA mobile terminal and additional equipment shall be thoroughly and accurately documented. Copies of originals are unacceptable and the documentation shall be in at least the English language.	STATE:
2.4.2	All equipment supplied shall be accompanied by a user manual. This manual shall fully describe all functions, controls and indicators/ displays, including those supplied which is not necessarily part of this specification.	STATE:
2.4.3	The TETRA mobile terminal offered including all additional equipment shall be supported by a full set of technical information, to assist SAPS Technical Personnel in the evaluation stage of the bid. This technical documentation shall also allow the SAPS to maintain the TETRA mobile terminal offered. The technical information shall include at least the following:	STATE:
2.4.3.1	Detailed technical specification.	STATE:
2.4.3.2	Detailed circuit diagrams and PC Board layouts.	STATE:
2.4.3.3	A detailed technical description of the operation of the TETRA mobile terminal offered.	STATE:
2.4.3.4	A complete list of components, including manufacturers part numbers, component numbers and descriptions. International ICN codes for components shall be included.	STATE:

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**SPECIFICATION FOR SUPPLY, DELIVERY AND PRODUCT TRAINING FOR TERRESTRIAL TRUNKED (TETRA) RADIO MOBILE TERMINALS FOR GAUTENG, EASTERN CAPE AND OTHER SAPS DIVISIONS.**

DESCRIPTION		COMPLY/ DO NOT COMPLY
2.4.3.5	A recommended spare parts list shall be included by the bidder.	STATE:
2.4.3.6	Bidders shall provide for four (4) sets of documents as described in this section.	STATE:
2.4.3.7	The successful bidder shall ensure that documentation forms part of the orders when placed. In the event of no documentation added on to the order, the bidder shall correct the order with the relevant SAPS Personnel.	STATE:
<b>2.5</b>	<b>QUALITY AND STANDARDS</b>	
2.5.1	All materials and equipment supplied on this bid shall be new and the best of the respective kind.	STATE:
2.5.2	All materials and equipment supplied shall fully comply with the requirements stipulated in this specification and the latest editions of the relevant <b>ETSI, BS, CCITT, EIA, DIN and CISPR</b> specifications or as otherwise specified.	STATE:
2.5.3	Apart from any other right which the SAPS may have in terms of the bid, it shall have the right to set the standard and to accept or reject part of the specified equipment depending on the quality of materials and workmanship offered.	STATE:
2.5.4	The successful bidder shall be notified if the quality of material and/or workmanship is not acceptable. In such an event the bidder shall replace the specific part or repair it to the satisfaction of the SAPS.	STATE:
2.5.5	The successful bidder shall submit a sample of equipment supplied for batch testing and which will be carried out by the SAPS.	STATE:
<b>2.6</b>	<b>INVOICING AND PACKAGING</b>  The successful bidder shall itemize and describe, individually all accessories, equipment and documents on the relevant delivery notes and invoices when delivering the equipment. No statement such as, "as per specification" will be accepted on a delivery note.  See also section 2.9 of this specification.	STATE:

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**SPECIFICATION FOR SUPPLY, DELIVERY AND PRODUCT TRAINING FOR TERRESTRIAL TRUNKED (TETRA) RADIO MOBILE TERMINALS FOR GAUTENG, EASTERN CAPE AND OTHER SAPS DIVISIONS.**

DESCRIPTION		COMPLY/ DO NOT COMPLY
2.6.1	All invoices must be submitted to and be marked for the attention: The Section Head SAPS Radio Communication Infrastructure Management for payment.	STATE:
2.6.2	Each TETRA mobile terminal including all accessories shall be packed separately and properly in its own container.	STATE:
2.7	<b>GUARANTEE</b>  All equipment including all accessories, supplied by the bidder to the South African Police Service shall be guaranteed in terms of paragraph 15 of General Conditions of Contract.	STATE:
2.8	<b>REPAIRS UNDER GUARANTEE</b>	
2.8.1	Bidder shall have qualified personnel and a fully equipped workshop available, to enable the bidder to deliver a professional and speedy service to the SAPS during the guarantee period. Full maintenance and repairs shall be finalized by the successful bidder, within one (1) week after faulty equipment has been handed in at the relevant service division.	STATE:
2.8.2	Bidder shall state the details of qualified personnel, workshops and any other relevant facilities under the bidder's control throughout the Republic of South Africa (RSA).	STATE:
2.8.3	Note that no offer will be accepted from a bidder, if the bidder has no qualified personnel, sufficient spares in stock and a fully equipped workshop. The bidder shall provide full details of such personnel, spares and workshop for inspection by the South African Police Service during the bid stage.	STATE:
2.8.4	The successful bidder shall report the following to the SAPS, Information Communication Technology Unit (ICTU) Section in writing on a monthly basis, for any repairs done to TETRA mobile terminals during the guarantee period:  i) Date of fault report ii) Nature of the fault iii) Parts replaced iv) Date TETRA mobile terminal is handed back to the SAPS.	STATE:

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SPECIFICATION 2494 /2022

**SPECIFICATION FOR SUPPLY, DELIVERY AND PRODUCT TRAINING FOR TERRESTRIAL TRUNKED (TETRA) RADIO MOBILE TERMINALS FOR GAUTENG, EASTERN CAPE AND OTHER SAPS DIVISIONS.**

DESCRIPTION		COMPLY/ DO NOT COMPLY
2.9	<b>DELIVERY</b>	
2.9.1	<p>The successful bidder shall deliver the TETRA mobile terminals offered to the ICTU of the Province that it is intended for.</p> <p>The bidder shall confirm and make firm arrangements (date and time) with ICTU for delivery of the ordered equipment.</p>	STATE:
2.9.2	<p>The successful bidder shall inform the SAPS, in writing, two (2) weeks in advance when the consignment of TETRA mobile terminals ordered is ready for delivery. The TETRA mobile terminals will be inspected by a representative of the SAPS, TETRA mobile terminal, Technology Management Services Division at the premises of the bidder which shall be in the RSA.</p> <p>A certificate of inspection and approval for the TETRA mobile terminals will be issued by the latter representative before any of the TETRA mobile terminals ordered can be delivered.</p>	STATE:
2.9.3	See also section 2.5 "Quality and Standards". No equipment will be accepted by the SAPS that does not comply with this section.	STATE:
2.10	<b>TRAINING</b>	
	The following certified product training shall be provided by the successful bidder.	
2.10.1	Detailed technical training of the TETRA mobile terminal shall be provided for selected personnel, Division Technology Management Services of the SAPS, at the training facility of Radio Technical Units or convenient training facility of SAPS at the cost of the successful bidder.	STATE:
2.10.2	The bidder shall specify whether any training material is available.	STATE:
2.10.3	Cost of any training or relevant material offered shall be specified by the bidder and included in the bidder price and stated in Appendix A scheduling of items.	STATE:

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**SPECIFICATION FOR SUPPLY, DELIVERY AND PRODUCT TRAINING FOR TERRESTRIAL TRUNKED (TETRA) RADIO MOBILE TERMINALS FOR GAUTENG, EASTERN CAPE AND OTHER SAPS DIVISIONS.**

DESCRIPTION		COMPLY/ DO NOT COMPLY
2.10.4	<p>Bidders shall quote for the training of personnel as per the following:</p> <p>Training for one person (1) as per unit price.</p> <p>Actual training numbers could vary and will be based on the above unit price.</p>	STATE:
2.10.5	<p>Training of members will take place per Province, Area or TETRA mobile terminal Technical Unit depending on orders placed. Each separate order will determine if SAPS Technical personnel has already received training on the product, if not training will be provided as per specification.</p>	STATE:
2.11	<b>AVAILABILITY OF SPARES</b>	
2.11.1	<p>Bidder shall certify in writing that they are capable to supply spares for the equipment as requested for in this bid document within <b>two (2) weeks</b> from receiving an order. If a bidder is unable to comply with this, then his or her bid shall be rejected.</p>	STATE:
2.11.2	<p>Failure of a bidder to deliver any spares within this <b>two (2) weeks</b> at any stage of the contract period or within a period of <b>two (2) years</b> after the completion of the contract without good reason, penalty clauses as per General Conditions of Contract paragraph 22 shall be enforced on the quoted price of the spares.</p>	STATE:
2.12	<b>PROGRAMMING SOFTWARE</b>	
2.12.1	<p>All programming software needed to program the TETRA mobile terminal or to do fault finding and alignment of the TETRA mobile terminal must be included in the offer.</p> <p>Programming software shall accompany separate orders and bidders must ensure that orders include Programming software and cabling.</p> <p>Bidders shall clearly indicate the cost of Programming Software and cabling as such accessories are dependable on the amount of TETRA mobile terminals ordered and the distribution thereof in a Province.</p>	STATE:

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SPECIFICATION 2494 /2022

**SPECIFICATION FOR SUPPLY, DELIVERY AND PRODUCT TRAINING FOR TERRESTRIAL TRUNKED (TETRA) RADIO MOBILE TERMINALS FOR GAUTENG, EASTERN CAPE AND OTHER SAPS DIVISIONS.**

DESCRIPTION		COMPLY/ DO NOT COMPLY
2.12.2	Bidders shall make all relevant software available to the SAPS for use without holding specific sections or parts of his/her software as proprietary software. If a bidder wants to keep his/her software as proprietary and not as an "open standard", then that bidder will not be considered.	STATE:
2.12.3	All software shall have full usage functionalities. Software with limited usage [E.g.30 times usage only, etc.] or other factors which limit the SAPS technical staff to perform their duties shall not be accepted and shall result in non-acceptance of the bid.	STATE:
2.12.4	In instances whereby the software delivered is not to the standards as described in par. 2.12.3 then the bidder shall be liable for all the costs to correct or replace that relevant software package.	STATE:
2.12.5	Successful bidder shall make available all upgrades on the software version delivered towards the SAPS, free of charge for at least up to five (5) years after the contract was completed.	STATE:

DESCRIPTION		COMPLY/ DO NOT COMPLY
3.	<b>GENERAL TECHNICAL REQUIREMENTS</b>	
3.1.	The Bidder shall supply TETRA mobile radios which consist of:	
3.1.1	A digital frequency transceiver operating from a normal 12 volt DC vehicle supply	STATE:
3.1.2	Internal and external loudspeaker within a suitable strong, durable enclosure including a loudspeaker grill, except where otherwise specified.	STATE:
3.1.3	A microphone with flexible coiled cord and a hook (clip).	STATE:
3.1.4	A six (6) meter power cable complete with an in-line fuse.	STATE:

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**SPECIFICATION FOR SUPPLY, DELIVERY AND PRODUCT TRAINING FOR TERRESTRIAL TRUNKED (TETRA) RADIO MOBILE TERMINALS FOR GAUTENG, EASTERN CAPE AND OTHER SAPS DIVISIONS.**

DESCRIPTION		COMPLY/ DO NOT COMPLY
3.	<b>GENERAL TECHNICAL REQUIREMENTS</b>	
3.1.5	The radio shall be suitable for both dash and/or boot mounting. The latter shall consist of the transceiver, which can be boot mounted and a control head that can be dash mounted.	STATE:
3.1.6	All power, control and audio signal cables shall be provided complete with the correct connectors.	STATE:
3.1.7	The radio terminals offered shall be commercial of the shelf products, and not products specially developed for this contract.	STATE:
3.1.8	The radio terminal shall be capable of operating in the UHF radio frequency spectrum from 380 - 400 MHz.	STATE:
3.1.9	The radio terminal shall be able to operate with a frequency separation of 10MHz between transmit and receive frequencies.	STATE:
3.1.10	Radio terminals shall be robust, simple to operate, light in weight and compact.	STATE:
3.1.11	The bidder shall detail the dimensions and weight of all radio terminals offered.	STATE:
3.1.12	All radio terminals shall be sealed against ingress of dust and water to IP54 standard.	STATE:
3.1.13	All radio terminals shall support adaptive power control to maximize power efficiency.	STATE:
3.1.14	Each radio terminal shall support distinct modes of operation for Group-Calls, Individual-Calls and Telephone Interconnect Calls.	STATE:
3.1.15	Each radio terminal shall be configurable so that when it detects an incoming call which is incompatible with its current mode, it either automatically or temporarily switches to the appropriate mode to receive the incoming call, or it requires the user to manually switch mode before answering the incoming call.	STATE:

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SPECIFICATION 2494 /2022

**SPECIFICATION FOR SUPPLY, DELIVERY AND PRODUCT TRAINING FOR TERRESTRIAL TRUNKED (TETRA) RADIO MOBILE TERMINALS FOR GAUTENG, EASTERN CAPE AND OTHER SAPS DIVISIONS.**

DESCRIPTION		COMPLY/ DO NOT COMPLY
3.	<b>GENERAL TECHNICAL REQUIREMENTS</b>	
3.1.16	Radio terminals shall support the System Manager adding Talk Groups or deleting Talk Groups over the air interface. All terminals shall send acknowledgement of successful or unsuccessful adding or deleting action on terminal to the digital exchange.	STATE:
3.1.17	ICTU technical manager shall be able to temporarily disable (stun) a radio terminal with a message over the air interface. All terminals shall send acknowledgement of successful or unsuccessful disabling action on terminal to the digital exchange.	STATE:
3.1.18	ICTU technical manager shall be able to re-enable a stunned radio terminal with a message over the air interface. All terminals shall send acknowledgement of successful or unsuccessful re-enabling action on the terminal to the digital exchange.	STATE:
3.1.19	The radio terminal shall be disabled from making or receiving calls while stunned.	STATE:
3.1.20	The stunned status shall be saved in non-volatile memory so removing power cannot defeat it.	STATE:
3.2	<b>PROGRAMMING</b> All programming, adjustments and alignment of the radio terminal shall be performed electronically by means of an IBM or compatible personal computer (PC) with the appropriate software program and interface between the radio terminal and the PC.	STATE:
3.2.1	Before any programming, adjustments and alignment of any radio terminal shall take place, the appropriate authentication shall not be lower than TEA2 shall be requested. It shall not be possible for an unauthorized person to compromise the security of the network through the software program in any one of SAPS radio terminals.	STATE:
3.2.2	Each radio terminal shall give a visual indication of signal strength.	STATE:
3.2.3	Each radio terminal shall give a very clear visual indication when it is out of the system's radio coverage.	STATE:

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**SPECIFICATION FOR SUPPLY, DELIVERY AND PRODUCT TRAINING FOR TERRESTRIAL TRUNKED (TETRA) RADIO MOBILE TERMINALS FOR GAUTENG, EASTERN CAPE AND OTHER SAPS DIVISIONS.**

DESCRIPTION		COMPLY/ DO NOT COMPLY
3.	<b>GENERAL TECHNICAL REQUIREMENTS</b>	
3.2.4	When a radio terminal is transmitting it shall give a very clear visual indication.	STATE:
3.2.5	To aid operation in the dark, the display shall be backlit. Backlight intensity shall be configurable, and it shall turn itself off after a period of inactivity.	STATE:
3.2.6	The radio terminal's user interface for the text messaging service shall be intuitive for anyone who has used a mobile phone. For example the "1abc" key is pressed once for an "a", four times for a "1", etc.	STATE:
3.2.7	Scanning shall be configurable so that a single scan-list can be associated with each Talk-Group.	STATE:
3.2.8	Each radio terminal shall support up to 20 Scan-Lists, each of up to 10 Talk-Groups.	STATE:
3.2.9	Scanning shall be a configurable option so that it can be enabled/ disabled.	STATE:
3.2.10	When a radio terminal is idling and scanning is enabled, it shall monitor the Main Control Channel for call set up signalling for any of the Talk Groups in the scan-list. If call set up is detected, the radio terminal shall join the call.	STATE:
3.2.11	Each radio terminal shall be able to associate a priority level with each Talk-Group.	STATE:
3.2.12	When a radio terminal has scanning enabled, and it is involved in a Group-Call, it shall still be able to detect other calls being set up. If a call is set up for a Talk-Group of higher priority than the current call, it shall leave the current call and join the higher priority call.	STATE:
3.2.13	Bidders shall offer terminals that are TETRA 2 (TEDS) compatible. Full details of TETRA 2 compliance regarding the offered terminals shall be given.  Bidders shall indicate that TETRA 2 terminals will operate on the existing Gauteng and Eastern Cape TETRA systems. Full operational functionalities will be clearly indicated.	STATE:

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**SPECIFICATION FOR SUPPLY, DELIVERY AND PRODUCT TRAINING FOR TERRESTRIAL TRUNKED (TETRA) RADIO MOBILE TERMINALS FOR GAUTENG, EASTERN CAPE AND OTHER SAPS DIVISIONS.**

DESCRIPTION		COMPLY/ DO NOT COMPLY
3.	<b>GENERAL TECHNICAL REQUIREMENTS</b>	
3.3	<b>FACILITIES REQUIRED FOR RADIO TERMINALS</b>	
3.3.1	The radio terminal shall identify itself to the system each time the unit transmits.	STATE:
3.3.2	The radio terminal shall have full protection of its final output stage in order that no damage shall be caused in the event of the output being short-circuited or being open circuit while the radio terminal is transmitting.	STATE:
3.3.3	The radio terminal shall be capable of operating on any SAPS TETRA Network providing all features and functionalities offered by the system, regardless of whether the system is of the same make as the radio terminal or not.	STATE:
3.3.4	The radio terminal shall be capable of operating in semi duplex mode via base stations on the trunked system. Direct radio terminal to radio terminal communications shall however also be possible without the assistance of a base station or repeater.	STATE:
3.3.5	The radio terminal shall be capable of scanning up to five (5) Talk Groups with one (1) group being a priority group.	STATE:
3.3.6	The radio terminal shall be able to respond to a multiple Talk Groups call without having to select via its selector switch the Talk Groups of the radio terminal that originated the multiple Talk Groups (for as long as the hang time has not lapsed and the radio terminal have returned to the control channel).	STATE:
3.3.7	The radio terminal shall be provided with a timer circuit which shall close down any transmission from the radio terminal after a predetermined time and after a warning indication has been received. The timer function shall also be set at various time periods for various Talk Groups e.g. the Talk Groups for communications with the 10111 emergency centres should have a longer time-out period than another Talk Groups which would permit communications only within the specific user group. If this feature is part of the radio terminal the time period shall be field programmable.	STATE:

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**SPECIFICATION FOR SUPPLY, DELIVERY AND PRODUCT TRAINING FOR TERRESTRIAL TRUNKED (TETRA) RADIO MOBILE TERMINALS FOR GAUTENG, EASTERN CAPE AND OTHER SAPS DIVISIONS.**

DESCRIPTION		COMPLY/ DO NOT COMPLY
3.	<b>GENERAL TECHNICAL REQUIREMENTS</b>	
3.3.8	Four (4) complete radio terminal programming facility shall be provided by the bidder to the SAPS for programming of modes into various Talk Groups, programming of all functions and possible additional frequencies that might be required in future on the radio terminal.	STATE :
3.3.9	The radio terminal shall be provided with all required controls, switches, indicators and an illuminated alphanumeric display to enable the operator to easily make use of all the facilities on the radio terminal and to indicate and display the various status conditions and modes of the radio terminal.	STATE :
3.3.10	It is of prime importance that the display of the radio shall not only be clear but be readable in bright sunlight and in darkness by the user.	STATE :
3.3.11	The radio terminal shall be provided with a specific port through which software changes and upgrades in technology by means of new software packages and new features can be programmed into the radio terminal.	STATE :
3.3.12	It shall be possible to program any combination of Talk Groups into the radio terminal according to the capacity of the radio terminal.	STATE :
3.3.13	The radio terminal shall be suitable for full digital voice encryption operation, both through the infrastructure of the system and in direct mode i.e. from radio terminal to radio terminal. Both over-the-air and end-to-end encryption modes shall be fully successful on the radio terminals and on the radio communications system.	STATE :
3.3.14	The bidder shall provide a full description of the encryption capabilities of the radio terminal. This shall include set-up of the radio terminal for encryption as well as levels of encryption available.	STATE :
3.3.15	The radio terminal shall be provided with an RS 232/ USB cable data port for the purpose of mobile data communications to data transmission devices that can be attached to the radio.	STATE :

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