



**THE HASHEMITE KINGDOM OF JORDAN**

**SPECIAL COMMUNICATIONS COMMISSION**

**SCC**

**TETRA TERMINALS TEN** **DER**

**2023**

# Table of Contents:

|  |  |
| --- | --- |
| **Subject** | **Page NO** |
| 1. Scope | 3 |
| 2. General Conditions | 3 |
| 3. Terms and conditions | 8 |
| 4. Hand Held Specs | Annex "A" |
| 1. Mobile Specs 2. BOM 3. SCC Evaluation Form | Annex " B" Annex "C"  Annex "D" |

## Scope

* 1. Special communications commission (SCC) – Ministry of Defense Agency intend to purchase TETRA Terminals (Hand held and Mobiles) to operate on the national terrestrial trunked radio network of Jordan, The Bidder has to supply all necessary equipment hardware and software, spare parts, documentation, programming tools, and all material needed.
  2. All specifications, features and quantities are listed in attached Annexes (A, B, C and D).

## General Conditions:

2.1 The following terms and definitions shall be applicable

SCC ـــــــــــــــــ party First 2.1.1

2.1.2 Second party ــــــــــBidder

* 1. All related correspondences shall be in English.
  2. The bidder shall quote for both annexes A & B (Hand Held and Mobile) separately and SCC reserve the right to award any of the two annexes or choose from both as it fits its interest.
  3. The bidder shall submit all relevant clauses, and state any deviation from the requirements.
  4. Every compliance answer for the technical data sheets requirements in the tender document must be supported by technical catalogues to confirm the compliance statement; any unsupported compliance answer shall be considered **Non-Compliant**.
  5. If any contradiction is encountered between the manufacturer technical data sheets and the compliance statements, the **technical** **data sheets** shall govern the decision for compliance or noncompliance.
  6. Any conflict in the requirements or specifications shall be in favor of the first party.
  7. All proposals shall include the following:
     1. Itemized price list for each type of proposed equipment
     2. The proposed terminals shall be of the latest technology (Hardware and software version).
     3. Two Bills of Material (BOM) shall be submitted: first one unpriced in the technical offer & second priced one financial offer.
  8. The Technical offer and the financial shall be submitted separately.
  9. Any questions or clarifications regarding the requirements shall be submitted before (10) working days of the tender closing date and must be delivered to the directorate of defense procurement including the end user certificate if needed.
  10. The awarded bidder shall in all respects bear the consequences of any technical problem arising during warranty and after the warranty.
  11. Bidder shall enclose (one hard and one soft) copies of his proposal including technical data sheets for each proposed item.
  12. Any proposal that does not include technical specifications for the proposed equipment shall be disqualified.
  13. First party reserves the right to include/reject the specific optional items **(Preferable)** or requirements to fit its needs; therefore, the bidder is obliged to quote for all optional items separately in his financial offer.
  14. Bidder shall recommend a priced list of needed software and hardware accessories (i.e., Cables, connectors programming Kit …etc**) as one lot.**
  15. The equipment should be delivered within 90 days from the date of the tender award.
  16. SCC shall not be responsible for any expenses or losses Incurred by the bidder in the preparation of his offer.
  17. The compliance document must include a response to each requirement in the tender document.
  18. **Compliance list:** All companies must fill the compliance list with clear Answers, any missed, not clear or blank answer shall be considered **Non-Compliant**.
  19. All the requested technical specs and features shall be included Without extra licenses cost.

## Equipment samples:

* + 1. All bidders shall supply samples of proposed terminals with their Proposal within Two weeks from the tender closing date unless they provided samples of the offered terminals before to the SCC from earlier bids then no need to send samples.
    2. Samples shall include at least one type of proposed terminals with all necessary accessories and programming software needed for its operation.

### Samples shall be used to test the performance, Features, environmental and ease of use for field operation by a technical committee from the first party, and this test will take a part in the final evaluation (Annex D).

* + 1. First party shall not be liable for any damage of the offered samples during evaluation trials.
    2. Provided samples must be fully compliant with the requirements and technical specifications of the tender.
    3. All added features which contribute to improve the performance of the system may be considered in favor of the offered equipment’s.
    4. The bidder shall provide a technical team (upon request) having all needed software and accessories to attend the sample test; this team is responsible for the programming of the terminals and for any needed support during the test period.

## Integrated Logistic Support (ILS)

* + 1. **R&R (Repair and Return Policy):**
       1. The bidder shall provide the repair and return (R&R) policy during and after warranty period.
       2. (R&R) policy shall include both hardware defects and software bugs.
       3. The defected terminals shall be repaired and returned within 45 days after the expiry of the warranty period.

## Technical support:

The bidder shall have a TETRA specialized local technical support upon request, and shall supply details of their Technical Support capabilities and staff.

## Documentation:

* + - 1. Shall include 2 copies of the Detailed User Guides and Programming Manuals in hard and soft copies format.
      2. User guides shall be in English language.

### Warranty:

* + - 1. Warranty period for the terminals (Handhelds & Mobiles) shall be at least 36 months from in country final acceptance date.
      2. Warranty period for the batteries shall be at least 6 months from in country final acceptance date.
      3. Warranty shall cover all equipment including hardware and software.
      4. All software updates during warranty period shall be provided to the first party free of charge.
      5. During warranty period, defective or malfunctioned units shall be replaced free of charge within 45 days from notification by the first party.
      6. The bidder is obliged to return the faulty units to the manufacturer with conformance to Jordan customs regulations
      7. Local technical support: Any defective equipment shall be fully handled by the local agent.
      8. Local technical support during the warranty period shall be free of charge.

### Training:

* + 1. Intensive training course for seven (7) engineers for (5) working days.
    2. Training should cover theoretical aspects, Programming, Operation and maintenance of equipment.
    3. Training shall be at the manufacturer training center.
    4. Detailed training schedule shall be provided by manufacturer showing the time table for each day of the course.
    5. Training cost shall cover:
       1. Training fees
       2. Air tickets, visa fees and accommodation.
  1. Optional & extra features may be considered in the final evaluation according to their operational importance.
  2. All items quoted shall be genuinely branded new and in accordance with the original manufacturer specification.
  3. The bidder shall guarantee all offered items against bad workmanship or manufacturer defects.
  4. If any delivered item found not compliant with the general requirements attached or specification of tender document, it shall be replaced at the supplier expense.

## Terms and conditions

* 1. Prices quoted shall be exempt from all governmental taxes and/or duties and include packing costs, shipping, and any other costs.
  2. All prices shall be CPT QAIA or CIF Aqaba port, bidder shall be responsible for the delivery of the equipment to SCC Warehouses, Amman-Jordan
  3. First party has the right to extend the validity of performance bond on the sellers account if the delivery is delayed beyond the agreed delivery time, by an increment equal to the delay time.
  4. The Bidder shall pay all fees of goods and documentation imposed by the country of origin.
  5. Bidder has to supply proposed equipment with the same prices as bid prices or lower during warranty period with the latest software update.

3.6 The proposed terminals (hand held and mobiles) should be compatible with JAF/PSA TETRA network (THALES D25).

**Annex A**

**TETRA Hand Held**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **No.** | **Specs & Services** | | **Reference** | | **Bidder Compliance &**  **Answers** | |
| Official Report from SCC Technical Team confirming that the offered terminal passed all the tests mentioned in Annex D and any extra tests  required by SCC. | | | | |  | |
| **RF SERVICES** | | | | | | |
| 1 | | Frequency band (MHz) | | (380-400) | |  |
| 2 | | RF CH BW (KHz) | | 25 | |  |
| 3 | | Tx-Rx Separation (MHz) | | 10 | |  |
| 4 | | Tx RF Power (Watt) | | ≥1.8 w (Class 3L) | |  |
| 5 | | RF Power Control | | incremental (steps ≤ 5 dB) | |  |
| 6 | | Adaptive power control (APC) | | Shall be Supported | |  |
| 7 | | Receiver Class | | A ( A&B is Preferred) | |  |
| 8 | | Rx Static Sensitivity dBm | | -112 or better | |  |
| 9 | | Rx Dynamic Sensitivity dBm | | -103 or better | |  |

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| **Environmental Specs** | | | |
| 1 | Operation Temperature ºC | -20 to +50 |  |
| 2 | Humidity | ETS300 019 -1-7 or  equivalent standard |  |
| 3 | Dust and Water | IP65 or better |  |
| 4 | Shock, drop and Vibration | ETS 300 019 5M3 or equivalent  standard |  |

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| **Battery Specs** | | | |
| 1 | Battery type | Li-ion |  |
| 2 | Battery Capacity | ≥ 1800(mAH) Standard or Extended  **The higher the better** |  |
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| **LOCATION SERVICES & GPS Receiver** | | | |
| 1 | Simultaneous Satellite reception | Specify max. number of  satellites |  |
| 2 | GPS Tracking Sensitivity | (-160dBm or better) |  |
| 3 | Accuracy | Less than or equal 10 m |  |
| 4 | Location Standard reporting Protocol | LIP |  |
| 5 | Integrated internal single chip GPS  receiver |  |  |
| 6 | Full programmable position update  triggers including: | On Request, Distance, Emergency Alerting (Preferable), time interval |  |
| 7 | Acquisition time: |  |  |
| 7.1 | Cold start | ≤ 60 second |  |
| 7.2 | Warm start | ≤ 10 second |  |
| 8 | All software hardware and licenses shall be included. If additional licenses needed for the optional items, it should be clearly mentioned in the offer. |  |  |

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| **VOICE SERVICES** | | | |
| **1.TMO** | | | |
| 1.1 | HALF DUPLEX CALLS | * Individual/group/broadcast call. * Pre-emptive priority calls. * Audio toggle. |  |
| 1.2 | FULL DUPLEX CALLS | MS & PABX/PSTN |  |
| 1.3 | Late Entry |  |  |
| 1.4 | Transmit inhibit |  |  |
| 1.5 | Ambience listening |  |  |
| 1.6 | DGNA |  |  |
| 1.7 | Fallback mode |  |  |
| 1.8 | Group Scanning |  |  |
| 1.9 | Talking Party Identification |  |  |
| **2.DMO** | | | |
| 2.1 | DMO | Individual/group/emergency call |  |
| 2.2 | DMO Gateway compatibility |  |  |
| 2.3 | DMO Repeater compatibility |  |  |
| 2.4 | Scanning |  |  |
| 2.5 | Talking Party Identification |  |  |
| 3.Emergency Call | | |  |
| 3.1 | Emergency Call Hot Mic |  |  |
| 3.2 | Dedicated emergency button |  |  |
|  | | | |
| **4.** | Flexible Dialing (DTMF, list scroll,  direct dial, short number dial, Alpha Search, Last No called) |  |  |
| **5.** | Calling line Identification Presentation |  |  |
| **6.** | (Optional) Compatible with Secondary Control Channel (SCCH) |  |  |

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| **Security** | | | |
| 1 | Air Encryption TEA1 with tamper  protection |  |  |
| 2 | Security Class3: DCK, CCK |  |  |
| 3 | Mutual Authentication |  |  |
| 4 | Radio Stun | temporary &permanent |  |

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| **Data/Messaging** | | | |
| 1 | SDS (To individual and group target) |  |  |
| 2 | Alphanumeric Text Service |  |  |
| 3 | English & Arabic input languages support |  |  |
| 4 | Text message data store |  |  |
| 5 | One touch Status Messaging |  |  |

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| **User Interface** | | | |
| 1 | Talk groups management | TMO folders ≥150  Talk groups ≥ 1000  DMO folders ≥ 100  DMO talk groups ≥ 300 |  |
| 2 | Supported Languages for interface menu | English & Arabic |  |
| 3 | Call History Log |  |  |
| 4 | Programmable buttons | Dedicated or soft keys |  |
| 5 | Phone Book | telephone and radio user address book capacity |  |
| 6 | Indicators | Rx level, Battery level meter, Missed calls, Device information (LA, RSSI, GPS COORDINATE, etc.), English & Arabic keypad |  |
| 7 | Display | Color screen  High Resolution |  |

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| --- | --- | --- | --- |
| **Programming** | | | |
| 1 | Software Updates |  |  |
| 2 | Programming interface | USB AND/OR RS232 |  |
| 3 | Conflict free system |  |  |
| 4 | **(Optional)** Simultaneous Multi programming  capability (preferable) |  |  |

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| --- | --- | --- | --- |
| **Other Services** | | | |
| 1 | Connector for audio accessories |  |  |
| 2 | connector for programming, upgrading,  Vehicle Adapter |  |  |

**Annex B**

**TETRA Mobile**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **No.** | | **Specs & Services** | | **Reference** | **Bidder Compliance &**  **Answers** | | |
| Official Report from SCC Technical Team confirming that the offered  terminal passed all the tests mentioned in Annex D and any extra tests required by SCC. | | | | |  | | |
| **RF SERVICES** | | | | | | |
| 1 | Frequency band (MHz) | | (380-430) | | |  |
| 2 | RF CH BW (KHz) | | 25 | | |  |
| 3 | Tx-Rx Separation (MHz) | | 10 | | |  |
| 4 | Tx RF Power (Watt) | | 10 Watt (class 2) | | |  |
| 5 | RF Power Control | | incremental (steps ≤ 5 dB) | | |  |
| 6 | Adaptive power control (APC) | | Shall be Supported | | |  |
| 7 | Receiver Class | | A ( A&B is Preferred) | | |  |
| 8 | Rx Static Sensitivity dBm | | -112 or better | | |  |
| 9 | Rx Dynamic Sensitivity dBm | | -103 or better | | |  |

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| --- | --- | --- | --- |
| **Environmental Specs** | | | |
| 1 | Operation Temperature ºC | -20 to +50 |  |
| 2 | Humidity | ETS300 019 / 95% |  |
| 3 | Dust and Water | IP 54 or better for radio &IP 67 for controller |  |
| 4 | Shock, drop and Vibration | ETS 300 019 or equivalent standard |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **LOCATION SERVICES & GPS Receiver** | | | |
| 1 | Simultaneous Satellite reception | Specify max. number of  satellites |  |
| 2 | GPS Tracking Sensitivity | (-150dBm or better) |  |
| 3 | Accuracy | Less than or equal 10 m |  |
| 4 | Location Standard reporting Protocol | LIP |  |
| 5 | Integrated internal single chip GPS  receiver |  |  |
| 6 | Full programmable position update  triggers including: | On Request, Distance, Emergency Alerting (Preferable), time interval |  |
| 7 | Acquisition time: |  |  |
| 7.1 | Cold start | ≤ 60 second |  |
| 7.2 | Warm start | ≤ 10 second |  |
| 8 | Refresh rate | Specify value |  |
| 9 | All software hardware and licenses shall be included. If additional licenses needed for the optional items, it should  be clearly mentioned in the offer |  |  |

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| **VOICE SERVICES** | | | |
| **1.TMO** | | | |
| 1.1 | HALF DUPLEX CALLS | Individual/group/broadcast call.  Pre-emptive priority calls.  Audio toggle. |  |
| 1.2 | FULL DUPLEX CALLS | MS & PABX/PSTN |  |
| 1.3 | Late Entry |  |  |
| 1.4 | Transmit inhibit |  |  |
| 1.5 | Ambience listening |  |  |
| 1.6 | DGNA |  |  |
| 1.7 | Fallback mode |  |  |
| 1.8 | Scanning |  |  |
| 1.9 | Talking Party Identification |  |  |
| **2.DMO** | | | |
| 2.1 | DMO | Individual/group/emergency call |  |
| 2.2 | DMO Gateway compatibility |  |  |
| 2.3 | DMO Repeater compatibility |  |  |
| 2.4 | Scanning |  |  |
| 2.5 | Talking Party Identification |  |  |
| **3 .Emergency Call** | | |  |
| 3.1 | Emergency Call Hot Mic |  |  |
| 3.2 | Dedicated emergency button |  |  |
|  | | |  |
| **4.** | Flexible Dialing (DTMF, list scroll,  direct dial, short number dial, Alpha Search, Last No called) |  |  |
| **5.** | Calling line Identification Presentation |  |  |
| **6.** | **(Optional)** Compatible with Secondary  Control Channel (SCCH) |  |  |

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| --- | --- | --- | --- |
| **Security** | | | |
| 1 | Air Encryption TEA1 with tamper  protection |  |  |
| 2 | Security Class3: DCK, CCK |  |  |
| 3 | Mutual Authentication |  |  |
| 4 | Radio Stun | temporary &permanent |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Data/Messaging** | | | |
| 1 | SDS (To individual and group target) |  |  |
| 2 | Alphanumeric Text Service |  |  |
| 3 | English & Arabic input languages support |  |  |
| 4 | Text message data store |  |  |
| 5 | One touch Status Messaging |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **User Interface** | | | |
| 1 | Talk groups management | TMO folders ≥150  TMO talk groups ≥ 1000  DMO folders ≥ 100  DMO talk groups ≥ 300 |  |
| 2 | Supported Languages for interface menu  English & Arabic |  |  |
| 3 | Call History Log |  |  |
| 4 | Programmable buttons | Dedicated or soft keys |  |
| 5 | Phone Book | telephone and radio user address book capacity |  |
| 6 | Indicators | Rx level, Missed calls, Device information (LA, RSSI, GPS  COORDINATE, etc.),  English & Arabic keypad |  |
| 7 | Display | Color screen  High Resolution |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Programming** | | | |
| 1 | Software Updates |  |  |
| 2 | Programming interface | USB AND/OR RS232 |  |
| 3 | Conflict free system |  |  |
| 4 | (Optional) Simultaneous Multi programming  Capability. |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Other Services** | | | |
| 1 | Connector for audio accessories |  |  |
| 2 | connector for programming, upgrading,  Vehicle Adapter |  |  |
| 3 | Input power | 12VDC |  |

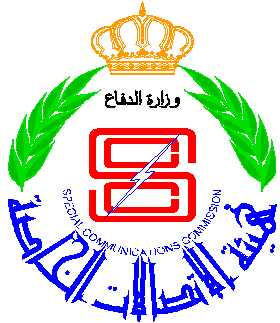
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| --- | --- | --- | --- |
| **Accessories** | | | |
| **Detailed Accessories (to be listed and priced separately):** | | | |
| 1 | Antennas | Types of Antennas and Antenna  mounts |  |
| 2 | Microphones |  |  |
| 3 | Loudspeakers | all types |  |
| 4 | PTTs | 3W. 5W,13W…etc |  |
| 5 | Mounting Kits | All |  |
| 6 | Cables (power cable) | all types |  |
| 7 | Data connectivity | RS232, USB, Power and Installation…etc. eg: Ability to connect Data and Audio via  separate |  |
| 8 | All required installation materials  needed | power & audio cables, RF  feeder, connectors…etc |  |
| 9 | Extra available accessories to be  listed by bidder with price list |  |  |

**Annex “C”**

**BOM**

|  |  |  |
| --- | --- | --- |
| **Ser.** | **Unit name** | **Qty** |
| 1. | Handheld Terminals with keypad including all the accessories (batteries, desktop charger 1+1,  antenna, belt clip) | 340 |
| 2. | Mobile Terminals including all accessories (magnetic antenna and cables, power cables,  Microphone with PTT…etc.) | 110 |
| 3. | Extended battery Li-ION 2500mAH | 200 |
| 4. | Desktop charger 1+1 | 100 |
| 5. | Extended helical antenna (380-430MHZ) | 100 |
| 6. | Magnetic base antenna for mobile station | 25 |
| 7. | Car charger | 30 |
| 8. | Surveillance Earpiece PTT & Mic | 100 |
| 9. | Programming software including necessary  hardware equipment’s | 1 |
| 10. | Programming cables for hand held | 5 |
| 11. | Programming cables for mobile station | 5 |

**Annex “D”**



# Special communications commission

TETRA TERMINAL-INFRASTRUCTURE

Evaluation form

|  |  |  |  |
| --- | --- | --- | --- |
| Company | Product | SW version | Infrastructure SW version |
|  |  |  | **D25 Ver. ( V.9 )** |

|  |  |  |  |
| --- | --- | --- | --- |
| **TEST SESSION** | | | SCC CONTROL SITE |
| **DATE** | | |  |
|  | | | |
| **TEST** | **Result** | | **Comments** |
| **Registration** | | | |
| ITSI Attached | |  |  |
| Location Update | |  |  |
| De-registration | |  |  |
| **Group Management** | | | |
| Single Group Attachment | |  |  |
| Multiple Group Attachment (Scanning) | |  |  |
| TX Pre-emptive Call Cut-Off | |  |  |
| Group De-attachment | |  |  |

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| --- | --- | --- |
| Normal Group Call |  |  |
| Late Entry |  |  |
| DGNA Group Attachment |  |  |
| DGNA Group Call |  |  |
| DGNA Group De-attachment |  |  |
| **Individual Call** | | |
| Single Organization Half Duplex call |  |  |
| Single OrganizationFull Duplex call |  |  |
| Inter-Organization Half Duplex call |  |  |
| Inter-Organization Full Duplex call |  |  |
| PSTN Call Initiated By the Terminal |  |  |
| PABX Call Initiated By the Terminal |  |  |
| PSTN Call Initiated By the PSTN |  |  |
| PABX Call Initiated By the PABX |  |  |
| **Pre-emptive & Emergency Calls** | | |

|  |  |  |
| --- | --- | --- |
| Pre-emption Call (OADB Check) |  |  |
| Emergency call (OADB Check) |  |  |

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| **Cell Re-Selection** | | |
| Cell Re-Selection During Individual Call |  |  |
| Cell Re-Selection During Group Call |  |  |
| **Subscriber Class** | | |
| Cell Selection Based on Sub. Class(AGA Test) |  |  |
| Use Of Preferred Subscriber Class(AGA Test) |  |  |
| **SDS** | | |
| SDS Addressed to Single ISSI |  |  |
| SDS Addressed to a Group (GSSI) |  |  |
| **AVL** | | |
| Periodic location update |  |  |
| Time and Distance triggered By Infrastructure |  |  |
| Terminal Enable/Disable | | |

|  |  |  |
| --- | --- | --- |
| Infrastructure Invalidation |  |  |
| Infrastructure Re-Validation |  |  |
| Temporary Disable |  |  |
| Temporary Disabled Terminal Re-Validation |  |  |
| **Fall Back Mode** | | |
| Fall Back mode Normal Operation |  |  |
| **Other Services** | | |
| DCK to Clear BTS Auto- Switch |  |  |