

بسم الله الرحمن الرحيم



القيادة العامة للقوات المسلحة الأردنية
مديرية المشتريات الدفاعية

هاتف: ٥٠٠٠١٤٠

فاكس: ٥٠٠١١٦٦

ص٠ب٠: ٩٢٦٦٨٠

دعوة عطاء: شراء أجهزة اتصال تشاركي وتفرعاتها

رقم العطاء: م ش ٥/٥٥/٢٠٢٤

تاريخ دعوة العطاء: ٢٠٢٤/١٢/١٢

١. ترغب القوات المسلحة الأردنية - الجيش العربي بطرح عطاء شراء اللوازم المبينة كمياتها ومواصفاتها في الملحق (ب) المرفق.

٢. شروط العطاء حسب الملاحق التالية:

أ. الشروط العامة للدخول في العطاءات والتعاقد مع المتعهدين/ الملحق (أ) (للاطلاع

مراجعة موقعنا على الانترنت <https://jafdop.jaf.mil.jo>)

ب. المواصفات الفنية والكميات والشروط الخاصة/ الملحق (ب).

٣. ثمن النسخة (١٢٥) مئة وخمسة وعشرين دينار أردني.

٤. على المتعهدين تسليم المناقصات قبل الساعة (١٣٠٠) من ظهر يوم الاثنين الموافق

٢٠٢٥/١/٢٠ إلى سكرتير لجان الشراء مع ضرورة عزل العرض المالي عن العرض الفني ويرفق معه

تأمين دخول عطاء بنسبة (٣%) ثلاثة بالمئة من إجمالي قيمة أعلى عرض مقدم صالحة لمدة (١٢٠)

يوماً من تاريخ اغلاق العطاء ولا تقبل أي مناقصات ترد بعد هذا التاريخ مطلقاً.

٥. ملاحظات هامة:

- على الشركة الالتزام بختم دعوة العطاء مع كامل الملاحق بالختم الرسمي للشركة ورافقها بالعرض.

- تقدم الاستفسارات خلال النصف الأول من مدة طرح العطاء ولا تقبل أي استفسارات ترد بعد ذلك.

- ارفاق نسخة الكترونية عن العرض الفني والمالي اضافة للنسخة الورقية.

اسم الشركة أو المتعهد:

اسم المفوض عن الشركة:

التوقيع:

التاريخ:

العنوان:

رقم الفاكس:

رقم الهاتف:

ص٠ب٠ :



TETRA TERMINALS TENDER

**الملحق (ب) لدعوة العطاء رقم م ش ٥٥/٥٥/٢٠٢٤
(المواصفات الفنية والكميات والشروط)**

- Annex (A): TETRA Hand Held.
- Annex (B): TETRA Mobile.
- Annex (C): BOM.
- Annex (D): TETRA TERMINAL-INFRASTRUCTURE COMPATABILITY TEST FORM

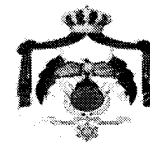


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1. Scope

- 1.1. The 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.
- 1.2. All specifications, features and quantities are listed in attached Annexes (A, B, C and D).

2. General Conditions:

- 2.1 The following terms and definitions shall be applicable
 - 2.1.1 First party ——— SCC
 - 2.1.2 Second party ——Bidder
- 2.1. All related correspondences shall be in English.
- 2.2. 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.
- 2.3. The bidder shall submit all relevant clauses, and state any deviation from the requirements.
- 2.4. 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**.



2.5. 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.

2.6. Any conflict in the requirements or specifications shall be in favor of the first party.

2.7. All proposals shall include the following:

2.7.1 Itemized price list for each type of proposed equipment

2.7.2. The proposed terminals should be of the latest technology
(Hardware and software version).

2.7.3 Two Bills of Material (BOM) shall be submitted: first one in the technical offer & second priced one in the financial offer.

2.8. The Technical offer and the financial shall be submitted separately.

2.9. 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.

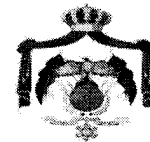
2.10. First party reserves the right not to award the contract to the bidder of the lowest price, nor to purchase the whole BOM.

2.11. The awarded bidder shall in all respects bear the consequences of any technical problem arising during warranty and after the warranty.

2.12. Bidder shall enclose (one hard and one soft) copies of his proposal including technical data sheets for each proposed item.

2.13. Any proposal that does not include technical specifications for the proposed equipment shall be disqualified.

2.14. 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.



2.15. Bidder shall recommend a priced list of needed software and hardware accessories (i.e., Cables, connectors programming Kit ...etc) **as one lot.**

2.16. The equipment should be delivered within 90 days from the date of the tender award.

2.17. First party shall not be responsible for any expenses or losses Incurred by the bidder in the preparation of his offer.

2.18. The compliance document must include a response to each requirement in the tender document.

2.19. **Compliance list:** All companies must fill the compliance list with clear Answers, any missed, not clear or blank answer shall be considered **Non-Compliant.**

2.20. All the requested technical specs and features shall be included Without extra licenses cost.

2.21. Equipment samples:

2.21.1. All bidders shall supply samples of proposed terminals with their Proposal within 6 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.

2.21.2. Samples shall include at least one type of proposed terminals with all necessary accessories and programming software needed for its operation.

2.21.3. **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).**



2.21.4. First party shall not be liable for any damage of the offered samples during evaluation trials.

2.21.5. Provided samples must be fully compliant with the requirements and technical specifications of the tender.

2.21.6. All added features which contribute to improve the performance of the system may be considered in favor of the offered equipment's.

2.21.7 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.

2.22. Integrated Logistic Support (ILS)

2.22.1. R&R (Repair and Return Policy):

2.22.1.1. The bidder shall provide the repair and return (R&R) policy during and after warranty period.

2.22.1.2. (R&R) policy shall include both hardware defects and software bugs.

2.22.1.3. The defected terminals should be repaired and returned within one month after the expiry of the warranty period.

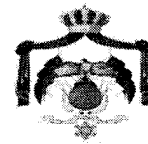
2.22.2. Technical support:

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

2.22.3. Documentation:

2.22.3.1. Shall include 2 copies of the Detailed User Guides and Programming Manuals in hard and soft copies format.

2.22.3.2. User guides shall be in English language.



2.22.4. Warranty:

- 2.22.4.1. Warranty period for the terminals (Handhelds & Mobiles) shall be at least **36 months** from in country final acceptance date.
- 2.22.4.2. Warranty period for the batteries shall be at least **6 months** from incountry final acceptance date.
- 2.22.4.3. Warranty shall cover all equipment including hardware and software.
- 2.22.4.4. All software updates during warranty period shall be provided to the first party free of charge.
- 2.22.4.5. During warranty period, defective or malfunctioned units shall be replaced free of charge within two weeks from notification by the first party.
- 2.22.4.6. The bidder is obliged to return the faulty units to the manufacturer and to conform to Jordan customs regulations.
- 2.22.4.7. Local technical support: Any defective equipment shall be fully handled by the local agent.
- 2.22.4.8. Local technical support during the warranty period shall be free of charge.

2.23. Training:

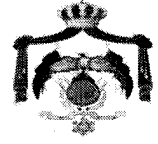
- 2.23.1 Intensive training course for eight (8) engineers for not less than (5)working days.
- 2.23.2 Training should cover theoretical aspects, Programming, Operation and maintenance of equipment.
- 2.23.3 Training shall be at the manufacturer training center.
- 2.23.4 Detailed training schedule shall be provided by manufacturer showing the timetable for each day of the course.
- 2.23.5 Training cost shall cover:
 - a. Training fees
 - b. Air tickets, visa fees, respectable accommodation, meals and local transportation, per diems.



- 2.24. Optional & extra features may be considered in the final evaluation according to their operational importance.
- 2.25. All items quoted shall be genuinely branded new and in accordance with the original manufacturer specification.
- 2.26. The bidder shall guarantee all offered items against bad workmanship or manufacturer defects.
- 2.27. 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.

3. Terms and conditions

- 3.1. Origin of all items shall be stated in the proposal once a purchase order is confirmed.
- 3.2. Prices quoted shall be exempt from all governmental taxes and/or duties and include packing costs, shipping, and any other costs.
- 3.3. Delivery of equipment shall be based on CPT QAIA/Jordan.
- 3.4. 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.
- 3.5. The Bidder shall pay all fees of goods and documentation imposed by the country of origin.



3.6. Bidder has to supply proposed equipment with the same prices as bid prices or lower during warranty period with the latest software update.

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

Annex A
TETRA Hand Held

Specs & Services	Reference	Bidder Compliance & Answers
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) or higher	
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	
Environmental Specs		
1. Operation Temperature °C	-20 to +50	
2. Humidity	ETS300 019-1-7 or equivalent standard	
3. Dust and Water	IP65, IP66, IP67, IP68	
4. Shock, drop and Vibration	ETS 300 019 5M3 or equivalent standard	
Battery Specs		
1. Battery type	Li-ion	
2. Battery Capacity	≥ 1500(mAH) Standard, ≥ 2500 (mAH) Extended	
Location Services & GPS Receiver		
1. Simultaneous Satellite reception	Specify max. number of satellites	
2. GPS Tracking Sensitivity	(-160dBm or better)	

3. Accuracy	Specify	
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	Specify	
7.2 Warm start	Specify	
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.		

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	(Radio can connect through gateways)	
2.3 DMO Repeater compatibility	(Radio can work through DMO repeater)	
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)		
Security		
1. Air Encryption TEA1		
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 ≥ 100 TMO Talk groups ≥ 1000 DMO folders ≥ 30 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	

Programming		
1. Software Updates		
2. Programming interface	USB AND/OR RS232	
3. Conflict free system		
4. (Optional) Simultaneous Multi programming capability (preferable)	This feature if available shall be priced as optional.	

Other Services		
1. Connector for audio accessories		
2. connector for programming, upgrading, Vehicle Adapter		

Annex B

TETRA Mobile

Specs & Services	Reference	Bidder Compliance & Answers
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)	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	
Environmental Specs		
1. Operation Temperature °C	-20 to +50	
2. Humidity	ETS300 019/95% or equivalent standard	
3. Dust and Water	IP 54 or better for radio , IP67 for controller	
4. Shock, drop and Vibration	ETS 300 019 5M3 or equivalent standard	
Location Services & GPS Receiver		
1. Simultaneous Satellite reception	Specify max. number of satellites	
2. GPS Tracking Sensitivity	(-150 dBm or better)	
3. Accuracy	Specify	
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	Specify	
7.2 Warm start	Specify	
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.		

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	(Radio can connect through gateways)	
2.3 DMO Repeater compatibility	(Radio can work through DMO repeater)	
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)		
Security		
1. Air Encryption TEA1		
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 \geq 100 TMO Talk groups \geq 1000 DMO folders \geq 30 DMO talk groups \geq 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	

Programming		
1. Software Updates		
2. Programming interface	USB AND/OR RS232	
3. Conflict free system		
4. (Optional) Simultaneous Multi programming capability (preferable)	This feature if available shall be priced as optional	

Other Services		
1. Connector for audio accessories		
2. connector for programming, upgrading, Vehicle Adapter		
3. Input Power	12 VDC	

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.	Cable (power cable)	All types
7.	Data connectivity	RS232, USB, Power and Installation...etc. e.g.: 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)	375
2.	Mobile Terminals including all accessories (magnetic antenna and cables, power cables, Microphone with PTT...etc.)	60
3.	Extended battery Li-ION 2500mAH or higher	200
4.	Dual pocket charger	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 for mobile stations and handhelds including necessary hardware equipment's (including the Laptop)	1
10.	Programming cables for Hand Held	5
11.	Programming cables for mobile station	5



Annex D



Special communications commission

TETRA TERMINAL-INFRASTRUCTURE COMPATABILITY TEST 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		



Normal Group Call		
Late Entry		
DGNA Group Attachment		
DGNA Group Call		
DGNA Group De-attachment		
Individual Call		
Single Organization Half Duplex call		
Single Organization Full 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)		

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		