



المديرية العامة لقوات الدرك

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إدارة الاتصالات و تكنولوجيا المعلومات

متطلبات شراء أجهزة اتصالات لاسلكية بعيدة المدى (HF)

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هذه النسخة من المواصفات مكونه من (11) إحدى عشر صفحات.

A. INTRODUCTION:

The General Directorate of Gendarmerie intends to purchase HF Desktop (Base station) transceivers Quantity of Eight (8) and HF mobile radios of Seven (7) operating on HF Radio Network of Jordan.

- 1. The HF Desktop (Base station) transceivers system shall provide a full communication between the General directorate of Gendarmerie HQ \ Shafabdran - AMMAN and the following site :**
 - A- Northland quantity (4) \ unit 13 [Um Al Lulu] + unit 15 [Dair Al se'neh] + unit 16 [Irbid] + unit 17 [Mafraq]**
 - B- Southland Quantity (3)\(unit 5 [Karak] + unit 6 [Ma'an] + unit 7[Aqaba])**
 - C- Midland Quantity (1) \ Al Taj - Amman or other place at midland**
- 2. The bidder shall supply documentation needed for the operation of the HF Radios and user manual (soft copy and hard copy).**
- 3. The bidder shall supply a list of all spare parts and Accessories needed or not needed on a separate price list.**
- 4. The specifications states the requirements and conditions regarding the vender for delivery, operation and warranty for (2)Two years and optional price for three years.**
- 5. All operation, warranty service, and maintenance obligations are in accordance with the awarded contract.**
- 6. The availability of spare parts and software editions should be for (10) year period from the date of the Equipment acceptance.**
- 7. Repair service should be at prevailing rates or in accordance with any maintenance agreement between Vendor and Owner.**
- 8. Tender shall coordinate with the General Directorate of Gendarmerie for all approvals and interfacing required.**
- 9. Tender shall provide all cabling, accessories, Antenna, Batteries, chargers , converters ,speakers , Headsets , Rugged case , radio mounts and software (user friendly) needed for programming ,Installation ,Operating and testing of HF Radios.**

10. Training engineers on HF Radios is required, the training shall provide theoretical, Technical, operational, full maintenance, Testing and Programming aspects.
11. The bidder shall make a point-by-point compliance statement to all items of the present specification according to provided compliance list.

B. TECHNICAL SPECIFICATIONS

HF Desktop(Base Station) Transceivers

& Mobile Radio`s :

1- General:

- Frequency Transmit Range: 1.6 to 30 MHz
- Frequency Receive Range : should be specified.
- Operation Temperature : -20⁰C to + 65⁰C
- Military standard code: should be specified.
- Desktop (base station) transceivers Coverage area (0 – 500) KM
- Mobile radio Coverage area (0-100 km) or more
- Channel capacity : average 50 programmable channels (simplex or semi-simplex)
- Scanningsupported
- Configurable channels /Second : should be specified

- **Modes of Operation: LSB/CW/AM/AFSK/ USB/....**
- **Configuration flexibility**
- **Selective Call**
- **Automatic Link Establishment**
- **Programmable (serial port or other)**
- **Built-in test equipment**
- **Emergency Call**
- **Secure Call**
- **SMS page call**
- **Voice Encryption**
- **Remote disable**
- **GPS supported (with cable and vehicle / wall mount)**
- **Maximum RF Input should be clear.**
- **Maximum RF level for Undistorted output signal should be clear**
- **Voice should be clear and able to be controlled.**

2- Main Power Supply:

- **12VDC or 24 VDC operating on 220 input AC power supply to provide power supply to the HF Desktop (Base station) Transceiver mentioned above with needed converter.**
- **12VDC or 24 VDC operating of the HF mobile radios mentioned above with needed converter. (price for 24vdc to 12vdc converter / or if it is included)**
- **DC Fuse Protected (for over Ampere, over Voltage and polarity change) should be included**

3- HF Output Antenna:

- **Frequency Range: 1.6 to 30 MHz**
- **RF Power: at least 100W for base station radios and 30 W for mobile radios**
- **Input Impedance: 50 Ohm**
- **VSWR: at least 2.1**
- **With control cable**
- **All needed accessories for operation and installation**
- **Length of antenna cable should be between (15 meter) & (25 meter) or more**
- **Desktop (base station) transceivers antenna Coverage area (0 – 500) KM**
- **Mobile radio antenna Coverage area (0-100 km) or more**

4- Accessories:

- Hand microphone
- Desktop microphone.
- Headset
- Loud speaker (extension speaker with connector)
- Internal speaker (optional)
- DC power cable: minimum 6m
- HF transceiver RF module with remote head (available)
- Base station main power supply
- Channel up & down buttons
- English keypad supported (Arabic keypad is optional)
- Remote console with head cable should be clear (if supported or not)
- Power supply mode should be clear
- Best antenna for installation with its accessories (mast , lightning arrester ...)
- Included All needed installation materials and accessories for installation and operation should be specified

5- Secure Call

A point to point or point to multipoint Secure Call system initiated by the entry of a scramble key and Secure Call Sel call.

6- Voice encryption

Enables to operate in (Advanced Encryption Standard)

mode with fall back analogue FFT scrambler for use on extremely bad HF channels.

7- Installation and Warranty

- Full Installations, survey and operation of the desktop (base station) transceivers and mobile radios shall be done by a Technicians staff from the vender.

- Earthing system should be in consideration and calculation (separate price / or included) if needed , { Technicians staff from the vender should make a survey at the field to make sure}

The vendor should show the way of installation (flow chart , picture ,)

Comprehensive Warranty (Hardware , Software) not less than two years after installation, final test and GDG acceptances.

8- Optional price for :-

- Man back HF Fully equipped package (case, accessories , solar charger , AC / DC Charger , Antennas ,)quantity (10)**
- Mobile mount accessories with antenna**
- Antennas type with its different distance.**
- Rugged tablet pc with software**

C. Equipment Country of origin :

Country of origin for the proposed HF Radios and its accessories must be specified.

All the HF Radios and equipment must be a Brand name.

D. Training:

- a. Intensive training course for four (4) engineers for not less than five (5) working days. (optional price for each extra engineer)
- b. Training should cover theoretical aspects, Programming, operation, installation and full maintenance of equipment.
- c. Training shall be at the manufacturer training center.
- d. Detailed training schedule shall be provided by manufacturer showing the timetable for each day of the course.
- e. Training cost shall cover:
 - i. Training fees.
 - ii. Training subsistence (respectable accommodation, meals and local transportation).
 - iii. Air tickets.

E. Special Conditions:

1. The companies are responsible for the Shipping, importing and operating all the Equipment that has been approved for the bid.
2. The company should supply details of their Technical Support capabilities and staff (C.V).
3. To supply a list of countries where the system is sold to , and company portfolio.

4. Warranty should be on Fault repair basis even if the faulty units are to be replaced.
5. The companies should submit the same number of the warranty years that agreed for the radio and accessories (two year minimum that includes spare parts, work and Transportation charges
6. Spare parts should be made available for at least (10) ten years from the date of bid approval , and spare parts prices should be held at the offered price for (3) three years for the case of buying spare parts within this period .
7. The company should supply the scheme diagram of the terminal board and test points for maintenance purposes (Soft and hard copy).
8. The period for the maintenance of the faulty terminal should be up to 50 days from the date that GDG delivered the faulty terminal to the company's or according to the agreement between GDG & the company's at that time.
9. Offered price should be provided which is include all license needed to match the Introduction and Technical specifications that written above(A+B).
10. Tender shall provide the programming software which should be (user friendly, flexible, fast, and efficient) .
11. Tender shall provide programming cables at least Qty (2).
12. Tender may provide Two samples (returnable) of HF radio with its accessories with its offer , and may be requested to operate and test it in field.
13. The company must declare the incompatibility of any item or any condition mentioned above (A. Introduction , B. technical specification , C. Equipment Country of origin , D. Training , E. Special Conditions)
14. Tender having any doubt to the meaning of any part of the conditions or specifications shall submit written questions to the GDG procurement department immediately, starting from the date of invitation set for obtaining copies of the tender documents.
15. Tender may be requested to arrange for a (1-2 hour) presentation that shall be set within two weeks from GDG's request, followed by discussions at the communications and information directorate, over the proposed HF system, any time after the submission of offers.
16. Any intentional or un-intentional information found and realized to be contradictory between the information contained within manufacturer's

catalogues and the responses to compliance statements shall be considered as misleading, automatically, giving the GDG appointed technical committee the right to confiscate the tender offer.

- 17. The offered equipment shall meet the attached relevant specifications and requirements (or any equivalent or superior specifications that shall be recommended).**

The equivalent or superior spec's shall be original in English and attached with the offers.

If the manufacturer is unable to quote for the specifications as requested by the Tender Documents, and consequently offers (Equivalent Specifications), in such case, he shall be requested to present a complete item-to-item analysis and comparison of each item and aspect of the detailed equivalent specifications offered with the relevant specifications requested by the tender documents failing to do so, the offer will be neglected.

- 18. The offers shall be valid for at least 90 days from the date of submission.**

The delivery schedule shall be shown by the supplier and shall be decisive.

Consideration shall be given to shorter delivery periods.

- 19. Offered items must be 100% brand new and shall be the Manufacturer's latest model in current production and clearly stating the dates of manufacture.**

- 20. Item by item response for tender Specifications, Bills of Quantities is required by indicating clearly the words, (fully comply) , (not-comply) as appropriate against each clause stating clearly the (ETSI name, Number and status of Implementation for each particular standard). The use of the word (partially comply) shall be explained if the requirements are met partially and the ways of**

reaching the required specification or standard. Failing to do so at the time of offer submission, the offer shall not be considered.

21. The vender shall apply the Technical specification offer for the HF Desktop (Base station) transceiver and HF mobile radio as soft copy and hard copy

22. The offer will be considered as a whole and not partial

The End