

بسم الله الرحمن الرحيم



القيادة العامة للقوات المسلحة الأردنية

مديرية المشتريات الدفاعية

هاتف: ٥٠٠٠١٤٠

فاكس: ٥٠٠١١٦٦

ص٠ب: ٩٢٦٦٨٠

دعوة عطاء: شراء شواحن وبطاريات لمواقع هيئة الاتصالات الخاصة

رقم العطاء : م ش ٢٠٢٤/٥١/٥

تاريخ دعوة العطاء : ٢٠٢٤/١٢/٨

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 (٢٠٠) منتي دينار أردني.

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

٢٠٢٥/١/٢٣ 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 إغلاق العطاء ولا تقبل أية 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:

ص٠ب :



Power Systems Project

(Chargers, Batteries)

2024

الملحق (ب) لدعوة العطاء رقم م ش ٥١/٥/٢٠٢٤
(المواصفات الفنية والكميات والشروط)

- Annex (1): Technical Specifications and Requirements For RENEWABLE ENERGY BATTERIES.
- Annex (2): Technical Specifications and Requirements For Chargers.



General:

- The following document describes the process for a request for proposal (RFP) of the Jordan Armed Forces/Special communications Commission; Potential vendors are invited to submit their proposals as a reply to the RFP.
- Special Communications Commission (SCC) is considering purchasing power system which shall include the supply and training of the following components:
 - 48 VDC Chargers.
 - Deep Cycle Batteries.

1. Documentation:

- 1.1. All the requested documents, manuals and catalogues shall be in English language.
- 1.2. Maintenance manuals which shall include the maintenance procedures, precautions, routine maintenance procedures, possible breakdowns and repairs.
- 1.3. Operation manual which shall include step by step system start-up operation and safe shutdown.
- 1.4. The provided manuals shall include the manufactures name, module number, parts list, and brief descriptions of all equipment and their basic operation features.
- 1.5. Troubleshooting guides.
- 1.6. Elaborated catalogues describing all the technical details of the offered equipment, general catalogues will not be accepted.

2. Shipment and delivery:

- 2.1 . Delivery of equipment shall be based on CPT QAIA/Jordanor CIFAQABA seaport.
- 2.2 . The equipment at Annexes (1+2) should be delivered to SCC warehouses within maximum period of 24 weeks from the date of the tender award.
- 2.3 Transportation of all required equipment to SCC warehouses is bidder responsibility.



3. Warranty:

3.1 Warranty period shall be as following:

3.1.1 24months' local agent warranty for chargers and batteries.

3.2 Warranty shall cover all equipment including hardware and software.

3.3 During warranty period, defective or malfunctioned units shall be replaced free of charge within 30 days from notification by SCC.

3.4 Repaired module shall be returned to SCC within 30 days.

3.5 The manufacturer is required to provide the Repair and Return (R&R) policy after Warranty period.

3.6 The Bidder shall pay all fees of goods and documentation imposed by the country of origin.

4. Terms and conditions

4.1.1 The proposed equipment (chargers, batteries) must be 100% brand new and manufactured not before year 2024.

4.2 OEM certificate shall be presented for all equipment.

4.3 Prices quoted shall be exempt from all governmental taxes and/or duties and include packing costs, shipping, and any other costs.

4.4 All items quoted shall be genuinely brand-new and in accordance with the original manufacturer specification.

4.5 SCC 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.

4.6 Bidder has to supply proposed equipment with the same prices as bid prices or lower during warranty period.

4.7 All proposed **batteries** must meet international codes and standards related to lead acid valve regulated batteries for renewable energy use and standby use such as: IEC 60896-21, IEC 60896-22, and IEC 62485-2, OR equivalent standards from IEEE/EN.

4.8 All proposed **chargers** must meet related international codes and standards such as: IEC 60950, EN 61000, OR equivalent standards from IEEE/EN.

4.9 All proposals shall include the following:

4.9.1 Itemized price list for each type of proposed equipment.

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

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



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- 4.10 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.
- 4.11 SCC reserves the right not to award the contract to the bidder of the lowest price, nor to purchase the whole BOM.
- 4.12 The awarded bidder shall in all respects bear the consequences of any technical problem arising during warranty and after the warranty.
- 4.13 Bidder shall enclose (one hard and one soft) copies of his proposal including technical data sheets for each proposed item.
- 4.14 Any proposal that does not include technical specifications for the proposed solution shall be disqualified.
- 4.15 SCC reserves the right to include/reject the specific optional items or requirements to fit its needs; therefore, the bidder is obliged to quote for all optional items separately in his financial offer.
- 4.16 SCC reserve the right to increase and/or decrease quantities of (chargers and/or batteries) with the same prices according to any updates might require any modification.
- 4.17 SCC reserves the right to contact the mother company to acquire information related to the offered items.
- 4.18 SCC Shall not be responsible for any expenses or losses Incurred by the bidder in the preparation of his offer.
- 4.19 Bidder shall guarantee the supply of spare parts whenever required of the offered equipment for a period of 5 years after the warranty period with bid prices modified by an escalation formula agreed on by SCC & bidder.
- 4.20 Bidder shall provide all installation accessories, cables ...etc. and any related materials needed.
- 4.21 Spare parts quantities and prices shall be clearly included in the financial offer.
- 4.22 The spare parts shall be as follows:

#	Item name	Quantity
1	Power Rectifiers for 48 VDC Chargers.	70
2	Surge Protective Devices (SPD) for 48 VDC Chargers.	20
3	(led screen with control panel) for 48 VDC Chargers.	10



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- 4.23 The bidder shall make point- by- point compliance statement to all items of the present specification according to provided compliance list and it is considered a vital part of bid documents.
- 4.24 In case where the bidder is not fully compliant with the specifications, bidder shall state the reason and/or why should SCC reconsider his position.
- 4.25 SCC has the right to cancel any part or the whole tender and also has the right to increase or decrease any other required conditions depending on SCC requirements.
- 4.26 The Bidder is allowed to propose maximum two solutions/options only.
- 4.27 Bidder has to provide all needed certificates that clearly show it's compliant with the international codes and standards mentioned in (4.7) & (4.8).
- 4.28 All proposed items must meet Jordanian codes and standards issued by Jordan standards and metrology organization and royal scientific society.
- 4.29 The 48 VDC Chargers must be supplied with four (4) Power Rectifier modules at least with each charger which means that (200) rectifier converter for all required chargers.
- 4.30 Two (O&M) laptop for local access shall be provided by the bidder, the laptop shall be core I7(H), 16GB RAM, 1TB SSD with licensed windows 11 operating system.
- 4.31 Two (O&M) fluke 393 FC solar clamp meter CAT III 1500v with recommended accessories shall be provided by the bidder.
- 4.32 Each battery must have an official manufacturer plate with this information:
- 4.33 Tag number.
 - 4.34 Year of manufacturing.
 - 4.35 Name of manufacturer.
 - 4.36 Type of battery.
 - 4.37 Battery voltage.
 - 4.38 Number of cells.
 - 4.39 Nominal capacity.



5. Training course:

5.1 Charger system training course (Two training tips 6 engineers; 7 working days for each trip) as:

5.1.1 The training necessary to operate, test, and support the system (chargers with backup batteries).

5.1.2 Eligible bidders are requested to respond to the training requirement and provide a suggested training schedule showing the timetable for each day of the course and requested pre-requisites.

5.1.3 Training shall be at the manufacturer training center.

5.1.4 Training cost shall cover:

5.1.4..1 Option (1):

a. Training fees only.

5.1.4..2 Option (2):

a. Training fees.

b. b. Training subsistence (Air tickets, respectable accommodation, meals and local transportation).



Annex 1

Technical Specifications and Requirements For RENEWABLE ENERGY BATTERIES

2V 3500Ah (QTY = 312).

#	Characteristics	Description
1	Nominal Cell voltage	2V
2	Nominal Cell Capacity	3500Ah
3	Shelf life time At 20°C	12 months
4	Designed life At 20°C	15 YEARS at least
5	Technical Features	5.1 Valve regulated lead acid. 5.2 Deep cycle. 5.3 OPZV tubular plate Gel type. 5.4 Rack mounting (local supply). 5.5 Top Terminal design. 5.6 Operating life cycle 2500 cycle at 50%DOD. 5.7 Operating Temperature Range -10°C to 40°C



Annex 2

Technical Specifications and Requirements

Chargers:(QTY = 70)

#	Characteristics	Description
1	Input	<p>1.1 Voltage: 3-PHASE overall system, 380-400V_{AC}.</p> <p>1.2 Nominal module voltage (rectifier): 100-240 VAC single phase.</p> <p>1.3 Frequency: 45-65Hz (or better).</p>
2	Output	<p>2.1 DC current output for each rectifier module ≥ 50 A_{DC}.</p> <p>2.2 Nominal system voltage: (-45 to -57 V_{DC}) (Positive Ground).</p> <p>2.3 Load sharing between modules (rectifiers).</p>
3	Load Breaker connection	<ul style="list-style-type: none"> • Negative termination directly from the Charger breakers
4	System Alarms (Minimum required)	<p>4.1 Overheating for modules.</p> <p>4.2 Overvoltage on output side & input side.</p> <p>4.3 Low voltage on output side & input side.</p> <p>4.4 Module failure.</p> <p>4.5 Battery temperature.</p> <p>4.6 Module indications: (green led, yellow led, red led).</p>
5	System Protection (Minimum required)	<p>5.1 Overvoltage disconnect (HVDC) for input & output side.</p> <p>5.2 Overheating disconnect.</p> <p>5.3 Low voltage disconnects (LVDC) for input & output side.</p> <p>5.4 Earth leakage protection OR Surge Protective Devices (SPD)</p>



6	Interfaces	6.1 Led/LCD screen with control panel. 6.2 Ethernet interface (RJ45).
7	Distribution Panel (Circuit Breakers)	7.1 Battery bank C.B: (150A_{DC} X3_{C.B}) 7.2 Load C.B:(minimum required) <ul style="list-style-type: none">• 20A_{DC} X 4C.B• 40A_{DC} X 4C.B• 60A_{DC}X 4C.B
8	Cooling	<ul style="list-style-type: none">• Fan cooled, Temperature Control
9	Reliability	<ul style="list-style-type: none">• Charger system must be capable to still operating even one or two phases are out.
10	Operating Temperature	<ul style="list-style-type: none">• -30 to 60 C⁰ or <u>BETTER.</u>
11	Management	<ul style="list-style-type: none">• Full remote management / monitoring
12	Mounting	<ul style="list-style-type: none">• 19” Rack
13	Battery type	<ul style="list-style-type: none">• Gel ,AGM , Flooded lead acid
14	Manufacturing warranty	<ul style="list-style-type: none">• 5 years or more.