**Ucom CJSC**

**Procurement of Uninterruptible power supply system equipment for Citadel data center**

RFQ

Request for Quotations (RFQ)

republic of Armenia

Ucom CJSC, procurement of Uninterruptible power supply system equipment for Citadel data center

RFQ No: TS-AG-22-1

# **General Conditions**

## Introduction

#### Ucom CJSC is a broadband service provider with licenses for voice, international gateway, and Internet services.

#### This document comprises Ucom CJSC and appears as a Request for Quotations (RFQ) for the Procurement of Uninterruptible power supply system equipment for Citadel data center.

#### This RFP has been issued to obtain all needed services and technical requirements.

## Requirements

#### The successful bidder is expected to supply equipment described in the technical requirements.

#### Bids are being invited for individual lots (contracts) prices quoted shall correspond to 100 % of the items specified.

#### All equipment proposed by The Supplier shall be dimensioned in accordance with the technical specification. The Bidder may substitute alternative solutions, provided that it demonstrates to the Purchaser’s satisfaction that the use of the substitute(s) will result in the System being able to perform substantially equivalent to or better than that specified in the Technical Requirements.

#### All equipment supported by the Supplier should be newly manufactured.

#### The Supplier shall ship the equipment based on the following delivery terms: INCOTERMS DAP Yerevan.

#### Delivery period; 65-90 Days;

#### The Supplier shall provide the supporting documentation, including user manuals in the English language, for its equipment and training/certification of 2 company relevant employees.

#### The Supplier shall provide factory warranty, - 3 years, starting from the date of signed Final Acceptance Certificate.

## Technical conditions, Installation and Administration

#### Requirements are described in the below technical document, in Russian and English languages.

**Other requirements**

#### By submission of documentary evidence in its proposal, the Bidder must establish to the Purchaser’s satisfaction:

#### that, in the case of a Bidder offering to supply key goods, that the Bidder does not itself produce, the Bidder is duly authorized by the producer to supply those components in the Purchaser’s country under the Contract(s) that may result from this bidding. This will be accomplished by including the Manufacturer’s/Distributor’s Authorization(s) in the proposal /appendix 2/.

#### that, if a Bidder proposes Subcontractors for key services these Subcontractors have agreed in writing to serve for the Bidder under the Contract(s) that may result from this bidding.

## Price quotation – As specified in the point 1.5 above, the evaluation will be done for lots (contracts), price quotation should be prepared using form of appendix 1 specifying words and figure, as well as the various amounts and the respective currencies. The compression will be done based on Incoterms DAP Yerevan.

## Authorized representatives of the eligible bidder shall be entitled to request clarifications regarding all of the RFQ documents by submitting requests by email to: Mr. Hovak Podosyan ([hovak.podosyan@ucom.am](mailto:hovak.podosyan@ucom.am)) and Mrs. Mary Stepanyan ([mary.stepanyan@ucom.am](mailto:mary.stepanyan@ucom.am)).

## At any time prior to the deadline for submission of proposals, Ucom may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, amend the RFQ or cancel the RFQ process. The request for clarification and the response shall be in writing.

## The Supplier shall bear all its cost for the tendering and RFP process. Ucom shall under no circumstance be liable for any cost for Supplier’s tendering process, regardless of whether or not the Supplier is selected.

## The proposal prepared by the Bidder and all correspondence and documents related to the proposal exchanged by the Bidder and Ucom shall be written in English, all data, documents, descriptions, instructions submitted by the Bidder and all communication between the Parties shall be in the English Language.

## The Bidders shall submit their proposals electronically to Mr Hovak Podosyan ([hovak.podosyan@ucom.am](mailto:hovak.podosyan@ucom.am) ) and Mrs. Mary Stepanyan ([mary.stepanyan@ucom.am](mailto:mary.stepanyan@ucom.am)), not later than January 31 of 2023 year, 18:00 (Local time), and the letter should be clearly marked RFP NO: TS-AG-22-1. Later bids may be rejected by the Purchaser.

## Proposals shall remain valid, at a minimum of 120 days after the deadline date for proposal submission prescribed by the Purchaser. A proposal valid for a shorter period may be rejected by the Purchaser as non-responsive.

## For evaluation and comparison purposes, the Purchaser shall convert all proposal prices expressed in various currencies and amounts into a single currency AMD, using the selling exchange rate established by the Central Bank of Armenia on the Proposals opening date.

## *This RFQ and other related documents (as well as the communication) included are strictly confidential, the “Receiving Party” shall keep confidential and shall not, divulge to any third party any documents, data, or other information. Failure of the Bidder to comply with the request may result in the rejection of its Proposal and further cooperation.*

## *Notwithstanding the above point, the Receiver may furnish Confidential Information of this RFP: (i) to its support service suppliers and their subcontractors and its subcontractor to the extent reasonably required for them to perform their work under their contracts; in which event the Receiving Party shall ensure that the person to whom it furnishes Confidential Information of the Disclosing Party is aware of and abides by the Receiving Party’s obligations under this point as if that person were party to the Contract in place of the Receiving Party.*

## The Purchaser shall award the Contract to the Bidder whose bid has been determined to be the lowest evaluated bid and is substantially responsive to the bidding documents, provided further that the Bidder is determined to be qualified to perform the Contract satisfactorily. Other Contract points shall remain negotiable between the parties.

# ТЕХНИЧЕСКОЕ ЗАДАНИЕ

**Оборудование системы бесперебойного электроснабжения для дата центра Цитадел**

**Требования к функциональным, техническим, эксплуатационным характеристикам товара**

1. Разработка проекта и миграции электропитания дата центра Цитадел.
2. Колличество в блоков мощности каждом UPS должно обеспечивать бесперебойное питанием с резервированием N+1 при нагрузке не менее 100ква
3. В каждом UPS должно быть 2 CPU с возможностю горячей замены
4. UPS должен иметь возможность работы с внешными батареями
5. UPS должен иметь возможность калибровки по времени нахождения в батарейном режиме
6. Все типы монтажных и пусконаладочных работ всей новой системы UPS платформы должны быть включены в спецификацию и должны выполняться поставщиком изделий.
7. Компания производитель предлогаемого железа UPS и других необходимых устройств должны обеспечить интеграцию всех новых установленных узлов в существующем в компании заказчика ПО Data Center Expert путем обеспечения необходимых ddf файлов (библиотек) для подключения к ПО заказчика. Библиотеки (ddf файлы для ПО Data Center Expert)должны быть включены в спецефикацию.ddf файлы для ПО Data Center Expert устанавливаются заказчиком.
8. Спецефикация должна учитывать все работы, необходимые материалы по кабелизации как силовой так и информационной с необходимым сопровождением соответсвующей маркировки на кабелях по стандартaм СКС ANSI/TIA/EIA 942.
9. В спецификация должна содержать обучение и сертефикацию двух инженеров из компании заказчика для дальнейшей эксплуатации UPS платформы.

**Наименование требуемого товара и колличества**

Источник бесперебойного питания мощностью не менее 100 кВт/100кВА

Оборудование системы бесперебойного электроснабжения для дата центра Цитадель в количестве двух комплектов.

Состав одного комплекта:

* 1. Модульный источник бесперебойного питания выходной мощностью не менее 100кВт/100кВА, включая силовые модули 25-50кВт/25-50кВА в количестве 4 или 2 шт соответственно.

ИБП должен обладать модульной конструкцией: силовые модули, модуль байпаса, модуль контроля и управления поддерживают горячую замену, ip сетевую карту

*Входные параметры:*

* Подключение ввода: 3Ph+N+PE
* Номинальное напряжение: 380/400/415В AC
* Диапазон напряжения: 138-485В AC (305-485В AC при нагрузке 100%; 138-305В AC при нагрузке 40%-100%)
* Диапазон частоты: 50±3% Гц
* Коэффициент мощности: 0.99

*Параметры байпаса:*

* Номинальное напряжение: 380/400/415В AC
* Частота: 50±3 Гц

*Выходные параметры:*

* Подключение вывода: 3Ph+N+PE
* Напряжение: 380/400/415В AC ±1%
* Частота: контроль ввода байпаса (режим Online), 50Гц ±0,05% (режим работы от батарей)
* Форма сигнала: Синусоидальная (THDv<1% для линейной нагрузки)
* Допустимая перегрузка:

- Инвертор: перегрузка 110% - 60 мин.; перегрузка 125% - 10 мин.; перегрузка 150% - 1 мин.

- Байпас: перегрузка 135% в течение длительного периода; перегрузка мене 1000% - 100 мс

*Параметры системы:*

* Тип ИБП: on-line
* Коэффициент мощности инвертора: 1
* КПД в номинальном режиме: 96%
* Ввод кабеля: снизу

*Параметры окружающей среды:*

* Рабочая температура: 0-40ºC
* Температура хранения: -40-70ºC
* Относительная влажность: 0%-95% (без конденсации)
* Высота над уровнем моря: 1000 м. Свыше 1000 м, снижение мощности на 1% каждые 100 м
* Уровень шума: <75 дБ

*Прочие требования:*

* В×Ш×Г (мм): не более 2000×1200×850
* Сертификация: EN/IEC 62040-1; EN/IEC 62040-2; EN/IEC 62040-3; CE; CB; RoHS, REACH, WEEE, EAC.
* Интерфейс связи: Сухие контакты, RS485, IP SNMP
* Каждый ИБП должен иметь стальную раму на полу для закрепления.
* Наличие автоматического выключателя защиты

**Какая должна быть функциональность ИБП**

* Топология ИБП – двойное преобразование
* Возможность параллельной работы ИБП
* Сенсорный ЖК дисплей, с портами RS485, Fast Ethernet (FE) и USB для ИБП
* Наличие у ИБП «Сухих контактов», портов RS485 и IP SNMP

**TECHNICAL REQUIREMENTS**

**Uninterruptible power supply system equipment for Citadel data center**

**Requirements for functional, technical, performance characteristics of items**

1. Project development and power migration of the Citadel data center.

2. The number of power units in each UPS must provide uninterruptible power supply with N + 1 redundancy at a load of at least 100kva

3. Each UPS must have 2 hot-swappable CPUs

4. UPS must be able to work with external batteries

5. The UPS must be able to calibrate for battery life.

6. The UPS must be able to identify bad battery modules and report to the monitoring system over the IP/SNMP network

7. The UPS platform must be equipped with an appropriate power distribution system to provide two-way power in each information cabinet of the Citadel data center

8. All types of installation and commissioning of the entire new platform UPS system must be included in the specification

9. The manufacturer of the proposed UPS hardware and other necessary devices must ensure the integration of all newly installed nodes into the existing Data Center Expert software in the customer’s company by providing the necessary ddf files (libraries) to connect to the customer's software. Libraries (ddf files for Data Center Expert software) must be included in the specification. ddf files for Data Center Expert software are installed by the customer.

10. The specification must take into account all the work, the necessary materials for cabling, both power and information, with the necessary support for the appropriate marking on cables according to SCS ANSI / TIA / EIA 942 standards.

11. The specification must contain the training and certification of two engineers from the customer's company for the further operation of the UPS platform.

**Name of the required product and quantity**

Uninterruptible power supply with a capacity of at least 100 kW / 100 kVA

Equipment for an uninterruptible power supply system for the Citadel data center in the amount of two sets.

Contents of one set:

1.1 Modular uninterruptible power supply with an output power of at least 100kW / 100kVA, including power modules 25-50kW / 25-50kVA in the amount of 4 or 2 pieces, respectively.

The UPS must have a modular design: power modules, bypass module, monitoring and control module support hot swapping, ip network card

Input parameters:

• Input connection: 3Ph+N+PE

• Rated voltage: 380/400/415VAC

• Voltage range: 138-485VAC (305-485VAC at 100% load; 138-305VAC at 40%-100% load)

• Frequency range: 50±3% Hz

• Power factor: 0.99

Bypass options:

• Rated voltage: 380/400/415VAC

• Frequency: 50±3Hz

Output parameters:

• Output connection: 3Ph+N+PE

• Voltage: 380/400/415V AC ±1%

• Frequency: bypass input control (online mode), 50Hz ±0.05% (battery mode)

• Waveform: Sinusoidal (THDv<1% for linear load)

• Permissible overload:

- Inverter: overload 110% - 60 min.; overload 125% - 10 min.; overload 150% - 1 min.

- Bypass: 135% overload for a long period; overload less than 1000% - 100 ms

System parameters:

• UPS type: on-line

• Inverter power factor: 1

• Efficiency in nominal mode: 96%

• Cable entry: bottom

Environment parameters:

• Working temperature: 0-40ºC

• Storage temperature: -40-70ºC

• Relative humidity: 0%-95% (non-condensing)

• Altitude: 1000m Above 1000m, derate 1% every 100m

• Noise level: <75 dB

Other requirements:

• H×W×D (mm): no more than 2000×1200×850

• Certification: EN/IEC 62040-1; EN/IEC 62040-2; EN/IEC 62040-3; CE; CB; RoHS, REACH, WEEE, EAC.

• Communication interface: Dry contacts, RS485, IP SNMP

• Each UPS must have a steel frame on the floor for anchoring.

• Availability of automatic protection switch

**What should be the functionality of the UPS and battery**

• • UPS Topology - Double Conversion

• Possibility of UPS parallel operation

• LCD touch screen with RS485, Fast Ethernet (FE) and USB ports for UPS and battery cabinet

• Availability of UPS circuit breakers: manual bypass

• The presence of the UPS and the cabinet with the battery "Dry contacts", RS485 and IP SNMP ports

**appendix 1**

**Price quotation**

**Date of this Quotation submission**: *[insert date of* Quotation *submission]*

**RFQ No.:** TS-AG-22-1

To: **Ucom CJSC**

1. **Conformity:** We offer to supply in conformity with the bidding document and in accordance with the Delivery Schedules specified in the RFQ the following Goods: [*insert a brief description of the Goods and Related Services*];
2. **Price**: The total price of our Quotation, excluding any discounts offered in item (f) below is:

Option 1, in case of one lot: Total price is: [*insert the total price of the Quotation in words and figures, indicating the various amounts and the respective currencies*];

1. **Validity**: Our Proposal shall be valid 120 days*,* and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
2. **Purchaser Not Bound to Accept**: We understand that you are not bound to accept the lowest evaluated cost Quotation, the Most Advantageous Quotation or any other Quotation that you may receive; and

**Name of the Bidder**: \*[*insert complete name of the Bidder*]

**Name of the person duly authorized to sign the Quotation on behalf of the Bidder**: \*[*insert complete name of person duly authorized to sign the* Quotation]

**Title of the person signing the Quotation**: [*insert complete title of the person signing the* Quotation]

**Signature of the person named above**: [*insert signature of person whose name and capacity are shown above*]

**Date signed** [*insert date of signing*] **day of** [*insert month*], [*insert year*]

\*: Person signing the Quotation shall have the power of attorney given by the Bidder. The power of attorney shall be attached with the Price Quotation.

*Appendix 2*

Manufacturer’s Authorization

Date: *[insert date (as day, month and year) of Quotation submission]*

RFQ No.: *TS-AG-22-1*

To: ***Ucom CJSC***

WHEREAS

We *[insert complete name of Manufacturer],* who are official manufacturers of*[insert type of goods manufactured],* having factories at [insert full address of Manufacturer’s factories], do hereby authorize *[insert complete name of Bidder]* to submit a Quotation the purpose of which is to provide the following Goods, manufactured by us *[insert name and or brief description of the Goods],* and to subsequently negotiate and sign the Contract.

We hereby extend our full guarantee and warranty with respect to the Goods offered by the above firm.

Signed: *[insert signature(s) of authorized representative(s) of the Manufacturer]*

Name: *[insert complete name(s) of authorized representative(s) of the Manufacturer]*

Title: *[insert title]*

Dated on \_\_\_\_\_\_\_\_\_\_\_\_ day of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_ *[insert date of signing]*