



## Request for Quotations (RFQ)

RFQ Number: MAAN-OPS-2024-150

Issuance Date: October 17, 2024

Deadline for Offers: October 31, 2024, at 17:00 hrs. Iraq time

Description: RFQ For the Provision of Office Security Equipment and Installation

For: Iraq Together (Ma'an) Activity

Funded By: United States Agency for International Development (USAID),  
Contract No. 72026724N00001

Implemented By: Chemonics International Inc. operating in Federal Iraq under  
Sama Al Tatawer for General Trade LLC

Point of Contact: Procurement Team at [Procurement@iraqmaan.com](mailto:Procurement@iraqmaan.com)

### \*\*\*\*\* ETHICAL AND BUSINESS CONDUCT REQUIREMENTS \*\*\*\*\*

Chemonics is committed to integrity in procurement, and only selects vendors based on objective business criteria such as price and technical merit. Chemonics expects vendors to comply with our Standards of Business Conduct, available at <https://www.chemonics.com/our-approach/standards-business-conduct/>.

Chemonics does not tolerate fraud, collusion among offerors, falsified proposals/bids, bribery, or kickbacks. Any firm or individual violating these standards will be disqualified from this procurement, barred from future procurement opportunities, and may be reported to both USAID and the Office of the Inspector General.

Employees and agents of Chemonics are strictly prohibited from asking for or accepting any money, fee, commission, credit, gift, gratuity, object of value or compensation from current or potential vendors in exchange for or as a reward for business. Employees and agents engaging in this conduct are subject to termination and will be reported to USAID and the Office of the Inspector General. In addition, Chemonics will inform USAID and the Office of the Inspector General of any vendor offers of money, fee, commission, credit, gift, gratuity, object of value, or compensation to obtain business.

Offerors responding to this RFQ must include the following as part of the proposal submission:

- Disclose any close, familial, or financial relationships with Chemonics or project staff. For example, if an offeror's cousin is employed by the project, the offeror must state this.
- Disclose any family or financial relationship with other offerors submitting offers. For example, if the offeror's father owns a company that is submitting another offer, the offeror must state this.
- Certify that the prices in the offer have been arrived at independently, without any consultation, communication, or agreement with any other offeror or competitor for the purpose of restricting competition.
- Certify that all information in the offer and all supporting documentation are authentic and accurate.
- Certify understanding and agreement to Chemonics' prohibitions against fraud, bribery and kickbacks.

Please contact [salnajjar@iraqmaan.com](mailto:salnajjar@iraqmaan.com) with any questions or concerns regarding the above information or to report any potential violations. Potential violations may also be reported directly to Chemonics' Washington office through the contact information listed on the website found at the hyperlink above.

## **Section 1: Instructions to Offerors**

1. **Introduction:** The Iraq Ma'an activity is a USAID program implemented by Chemonics International Inc. in Iraq under its local registration of Sama Al Tatawer for General Trade LLC. The Ma'an activity aims to support select government entities in Iraq (national, regional and local) to improve service delivery performance through use of technology and process standardization while increasing the availability of and access to information, particularly related to public services. The activity also fosters improved and inclusive relationships and engagement between the government and the communities they serve. The activity goal is more equitable, efficient, and sustainable public services as well as improved government responsiveness to citizens' needs and demands, contributing to more accountable, transparent, and inclusive governance. As part of program implementation, the Ma'an activity requires the purchase of Office Security Equipment for its office in Al Ameerat, Al Mansour, Baghdad. The purpose of this RFQ is to solicit quotations for these items.

Offerors are responsible for ensuring that their offers are received by Chemonics in accordance with the instructions, terms, and conditions described in this RFQ. Failure to adhere with instructions described in this RFQ may lead to disqualification of an offer from consideration.

2. **Offer Deadline and Protocol:** Offers must be received no later than 17:00 hrs. local Baghdad time on October 31, 2024, by email. Any emailed offers must be emailed to [Procurement@iraqmaan.com](mailto:Procurement@iraqmaan.com).

Please reference the RFQ number in any response to this RFQ. Offers received after the specified time and date will be considered late and will be considered only at the discretion of Chemonics.

3. **Questions:** Questions regarding the technical or administrative requirements of this RFQ may be submitted no later than 17:00 hrs. local Baghdad time on October 24, 2024, by email to [Procurement@iraqmaan.com](mailto:Procurement@iraqmaan.com). Questions must be submitted in writing; phone calls will not be accepted. Questions and requests for clarification—and the responses thereto—that Chemonics believes may be of interest to other offerors will be circulated to all RFQ recipients who have indicated an interest in bidding.

Only the written answers issued by Chemonics will be considered official and carry weight in the RFQ process and subsequent evaluation. Any verbal information received from employees of Chemonics, or any other entity should not be considered as an official response to any questions regarding this RFQ.

4. **Specifications:** Section 3 contains the technical specifications of the required items. All commodities offered in response to this RFQ must be new and unused. In addition, all electrical commodities must operate on 240V, 50Hz.

Please note that, unless otherwise indicated, stated brand names or models are for illustrative description only. An equivalent substitute, as determined by the specifications, is acceptable.

5. **Quotations:** Quotations in response to this RFQ must be priced on a fixed-price, all-inclusive basis, including delivery and all other costs. Pricing must be presented in IQD. Offers must remain valid for not less than thirty (30) calendar days after the offer deadline. Offerors are requested to provide quotations on their official quotation format or letterhead; in the event this is not possible, offerors may complete the table in Section 3.

In addition, offerors responding to this RFQ are requested to submit the following:

- Organizations responding to this RFQ are requested to submit a copy of their official registration or business license.

6. **Delivery**: The delivery location for the items described in this RFQ is Al Ameerat, Al Mansour, Baghdad. As part of its response to this RFQ, each offeror is expected to provide an estimate (in calendar days) of the delivery timeframe (after receipt of order). The delivery estimate presented in an offer in response to this RFQ must be upheld in the performance of any resulting contract.
7. **Source/Nationality/Manufacture**: All goods and services offered in response to this RFQ or supplied under any resulting award must meet **USAID Geographic Code 937** in accordance with the United States Code of Federal Regulations (CFR), [22 CFR §228](#). The cooperating country for this RFQ is Iraq.

Offerors may not offer or supply any commodities or services that are manufactured or assembled in, shipped from, transported through, or otherwise involving any of the following countries: Cuba, Iran, North Korea, Syria.

Any and all items that are made by Huawei Technology Company, ZTE Corporation, Hytera Communications Corporation, Hangzhou Hikivision Digital Technology Company, Dahua Technology Company will not be accepted. If offers include items from these entities, please note that they will be deemed not technically responsive and excluded from competition.

8. **Warranty**: Warranty service and repair within the cooperating country is required for all commodities under this RFQ. The warranty coverage must be valid on all commodities for a minimum of twelve (12) months after delivery and acceptance of the commodities, unless otherwise specified in the technical specifications. At the time that any commodity is transferred to the Government of Iraq, the Ma'an activity, or another entity within the cooperating country, all rights to warranty support and service shall be transferred with the commodity to that entity's end-user.
9. **Taxes and VAT**: The agreement under which this procurement is financed is not exempt from the payment of taxes, VAT, tariffs, duties, or other levies imposed by any laws in effect in the Cooperating Country. Therefore, offerors must include taxes, VAT, charges, tariffs, duties, and levies in accordance with the laws of the Cooperating Country.
10. **UEI Number**: Companies or organizations, whether for-profit or non-profit, shall be requested to provide a Unique Entity Identifier (UEI) number if selected to receive an award in response to this RFQ valued greater than or equal to \$30,000 (or equivalent in other currency). If the Offeror does not have a UEI number and is unable to obtain one before the offer submission deadline, the Offeror shall include a statement noting their intention to register for a UEI number should it be selected as the successful offeror or explaining why registration for a UEI number is not possible. UEI numbers can be obtained online at SAM.gov. Further guidance on obtaining a UEI number is available from Chemonics upon request.
11. **Eligibility**: By submitting an offer in response to this RFQ, the offeror certifies that it and its principal officers are not debarred, suspended, or otherwise considered ineligible for an award by the U.S. Government. Chemonics will not award a contract to any firm that is debarred, suspended, or considered to be ineligible by the U.S. Government.

12. **Evaluation and Award**: The award will be made to a responsible offeror whose offer follows the RFQ instructions, meets the eligibility requirements, meets or exceeds the minimum required technical specifications, and is judged to be the best value based on a lowest-price, technically-acceptable basis and shortest reasonable delivery time.

Please note that if there are significant deficiencies regarding responsiveness to the requirements of this RFQ, an offer may be deemed “non-responsive” and thereby disqualified from consideration. Chemonics reserves the right to waive immaterial deficiencies at its discretion.

Best-offer quotations are requested. It is anticipated that award will be made solely on the basis of these original quotations. However, Chemonics reserves the right to conduct any of the following:

- Chemonics may conduct negotiations with and/or request clarifications from any offeror prior to award.
- While preference will be given to offerors who can address the full technical requirements of this RFQ, Chemonics may issue a partial award or split the award among various vendors, if in the best interest of the Ma’an activity Project.
- Chemonics may cancel this RFQ at any time.

Please note that in submitting a response to this RFQ, the offeror understands that USAID is not a party to this solicitation and the offeror agrees that any protest hereunder must be presented—in writing with full explanations—to the Ma’an activity Project for consideration, as USAID will not consider protests regarding procurements carried out by implementing partners. Chemonics, at its sole discretion, will make a final decision on the protest for this procurement.

13. **Terms and Conditions**: This is a Request for Quotations only. Issuance of this RFQ does not in any way obligate Chemonics, the Ma’an activity Project, or USAID to make an award or pay for costs incurred by potential offerors in the preparation and submission of an offer.

This solicitation is subject to Chemonics’ standard terms and conditions. Any resultant award will be governed by these terms and conditions; a copy of the full terms and conditions is available upon request. Please note the following terms and conditions will apply:

- (a) Chemonics’ standard payment terms are net 30 days after receipt and acceptance of any commodities or deliverables. Payment will only be issued to the entity submitting the offer in response to this RFQ and identified in the resulting award; payment will not be issued to a third party.
- (b) Any award resulting from this RFQ will be firm fixed price, in the form of a purchase order.
- (c) No commodities or services may be supplied that are manufactured or assembled in, shipped from, transported through, or otherwise involving any of the following countries: Cuba, Iran, North Korea, Syria.
- (d) Any international air or ocean transportation or shipping carried out under any award resulting from this RFQ must take place on U.S.-flag carriers/vessels.
- (e) United States law prohibits transactions with, and the provision of resources and support to, individuals and organizations associated with terrorism. The vendor under any award resulting from this RFQ must ensure compliance with these laws.
- (f) The title to any goods supplied under any award resulting from this RFQ shall pass to Chemonics following delivery and acceptance of the goods by Chemonics. Risk of loss, injury, or destruction of the goods shall be borne by the offeror until title passes to Chemonics.

## **Section 2: Offer Checklist**

To assist offerors in preparation of proposals, the following checklist summarizes the documentation to include an offer in response to this RFQ:

- ☐ Cover letter, signed by an authorized representative of the offeror (see Section 4 for template)
- ☐ Official quotation, including specifications of offered equipment (see Section 3 for example format)
- ☐ Federal Funding Accountability and Transparency Act (FFATA) Subaward Reporting Questionnaire, signed by an authorized representative of the offeror (see Section 5 for questionnaire)
- ☐ Copy of offeror's registration or business license (see Section 1.5 for more details)

### **Section 3: Specifications and Technical Requirements**

*The table below contains the technical requirements of the commodities/services. Offerors are requested to provide quotations containing the information below on official letterhead or official quotation format. In the event this is not possible, offerors may complete this Section 3 and submit a signed/stamped version to Chemonics.*

| <b>Line Item</b>                                            | <b>Description and Specifications</b>                                                                                                         | <b>Qty</b> | <b>Unit</b> | <b>Unit Price (IQD)</b>               | <b>Total Price (IQD)</b> |
|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------|---------------------------------------|--------------------------|
| 1                                                           | Security IP Camera with installation according to the specifications in Annex A.                                                              | 15         | Each        |                                       |                          |
| 2                                                           | Security Camera DVR compatible with line No. 1                                                                                                | 1          | Each        |                                       |                          |
| 3                                                           | 24 Ports Switch for the Security system with installation compatible with line No. 1 according to the specifications in Annex A.              | 1          | Each        |                                       |                          |
| 4                                                           | Smart TV (49") for CCTV to display the feed from security Cameras with installation according to the specifications in Annex A.               | 1          | Each        |                                       |                          |
| 5                                                           | Smart TV (55") for CCTV to display the feed from security Cameras with installation according to the specifications in Annex A.               | 1          | Each        |                                       |                          |
| 6                                                           | NVR - Cloud Base NVR with installation according to the specifications in Annex A.                                                            | 1          | Each        |                                       |                          |
| 7                                                           | Electric Bolt Lock SDC Excel E600 - including cables and installation                                                                         | 2          | Each        |                                       |                          |
| 8                                                           | Fingerprint Reader, Multiclass BioEntry W2 with cable and installation according to the specifications in Annex A.                            | 2          | Each        |                                       |                          |
| 9                                                           | USB card enrollment reader according to the specifications in Annex A.                                                                        | 1          | Each        |                                       |                          |
| 10                                                          | AMC2 - Access Modular Controller Door controller Wiegand with CF card with cable and installation according to the specifications in Annex A. | 2          | Each        |                                       |                          |
| 11                                                          | Desktop server according to the specifications in Annex A.                                                                                    | 1          | Each        |                                       |                          |
| Describe any other general specification notes or comments: |                                                                                                                                               |            |             |                                       |                          |
|                                                             |                                                                                                                                               |            |             | <b>Subtotal:</b>                      |                          |
|                                                             |                                                                                                                                               |            |             | <b>Delivery Costs:</b>                |                          |
|                                                             |                                                                                                                                               |            |             | <b>Other Costs (Describe: _____):</b> |                          |
|                                                             |                                                                                                                                               |            |             | <b>GRAND TOTAL (IQD):</b>             |                          |

## Notes:

- 1- Offerors may conduct site visit until before the deadline for questions which is October 24, 2024, at 17:00 hrs. Iraq time. To book the time the time for site visit, please email [Procurement@iraqmaan.com](mailto:Procurement@iraqmaan.com).
- 2- Please make sure to include the datasheet for all the items you offer.

Delivery time (after receipt of order): \_\_\_\_\_ calendar days

Length of warranty on offered equipment: \_\_\_\_\_ years

Location of service center(s) for after-sales service, including warranty repair: \_\_\_\_\_

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#### **Section 4: Offer Cover Letter**

*The following cover letter must be placed on letterhead and completed/signed/stamped by a representative authorized to sign on behalf of the offeror:*

To: Sama Al Tatawer for General Trade LLC, Ma'an activity  
Al Mansour, Al Ameerat, Baghdad, Iraq

Reference: RFQ No. MAAN-OPS-2024-150

To Whom It May Concern:

We, the undersigned, hereby provide the attached offer to perform all work required to complete the activities and requirements as described in the above-referenced RFQ. Please find our offer attached.

We hereby acknowledge and agree to all terms, conditions, special provisions, and instructions included in the above-referenced RFQ. We further certify that the below-named firm—as well as the firm's principal officers and all commodities and services offered in response to this RFQ—are eligible to participate in this procurement under the terms of this solicitation and under USAID regulations.

Furthermore, we hereby certify that, to the best of our knowledge and belief:

- We have no close, familial, or financial relationships with any Chemonics or Ma'an activity project staff members;
- We have no close, familial, or financial relationships with any other offerors submitting offers in response to the above-referenced RFQ; and
- The prices in our offer have been arrived at independently, without any consultation, communication, or agreement with any other offeror or competitor for the purpose of restricting competition.
- All information in our offer and all supporting documentation is authentic and accurate.
- We understand and agree to Chemonics' prohibitions against fraud, bribery, and kickbacks.

We hereby certify that the enclosed representations, certifications, and other statements are accurate, current, and complete.

Authorized Signature: \_\_\_\_\_

Name and Title of Signatory: \_\_\_\_\_

Date: \_\_\_\_\_

Company Name: \_\_\_\_\_

Company Address: \_\_\_\_\_

Company Telephone and Website: \_\_\_\_\_

Company Registration or Taxpayer ID Number: \_\_\_\_\_

Company UEI Number: \_\_\_\_\_

Does the company have an active bank account (Yes/No)? \_\_\_\_\_

Official name associated with bank account (for payment): \_\_\_\_\_

## **Section 5: Federal Funding Accountability and Transparency Act (FFATA) Subaward Reporting Questionnaire**

If the offeror is selected for an award valued at \$30,000 or above and is not exempted based on a positive response to paragraph (a) below, any first-tier subaward to the organization may be reported and made public through FSRs.gov in accordance with The Transparency Acts of 2006 and 2008. Further, in accordance with FAR 52.204-10 and 2 CFR Part 170, if the offeror positively certifies below in paragraph (b) and negatively certifies in paragraphs (c) and (d), the offeror will be required to disclose to Chemonics for reporting in accordance with the regulations, the names and total compensation of the organization's five most highly compensated executives. By submitting this offer, the offeror agrees to comply with this requirement as applicable if selected for a subaward.

**Prime Contract** **Insert Prime Contract Name:** Ma'an activity

**Insert Prime Contract Number/Task Order Number:** 72026724N00001

### **Subcontractor Data**

**Insert Subcontractor Name**

**Insert Subcontractor Address**

**Insert Subcontractor City**

**Insert Subcontractor State in USA, or Province/Other**

**Insert Subcontractor Zip code or Postal Code**

**Insert Subcontractor Country**

**Subcontract/Grant Number:** **Insert Subcontract Number**

**Start Date:** **Insert Subcontract Start Date**

**Subcontract/Grant Value:** **Insert Subcontract Value**

- a) In the previous tax year, was your company's gross income from all sources **under** \$300,000?

☐ Yes ☐ No

If **"No"** is the response to the preceding question, please provide the below information and answer the remaining questions.

- b) In your business or organization's preceding completed fiscal year, did your business or organization (the legal entity to which the UEI number belongs) receive (1) 80 percent or more of its annual gross revenues in U.S. federal contracts, subcontracts, loans, grants, subgrants, and/or cooperative agreements; **and** (2) \$25,000,000 or more in annual gross revenues from U.S. federal contracts, subcontracts, loans, grants, subgrants, and/or cooperative agreements?:

☐ Yes ☐ No

- c) Does the public have access to information about the compensation of the executives in your business or organization (the legal entity to which the UEI number it provided belongs) through periodic reports filed under section 13(a) or 15(d) of the Securities Exchange Act of 1934 (15 U.S.C. 78m(a), 78o(d)) or section 6104 of the Internal Revenue Code of 1986)?:

☐ Yes ☐ No

- d) Does your business or organization maintain an active registration in the System for Award Management ([www.SAM.gov](http://www.SAM.gov))?

☐ Yes ☐ No

- e) If you have indicated “Yes” for paragraph (b) **and** “No” for paragraphs (c) and (d) above, provide the names and total compensation\* of your five most highly compensated executives\*\* for the preceding completed fiscal year.

1. Name: \_\_\_\_\_  
Amount: \_\_\_\_\_
2. Name: \_\_\_\_\_  
Amount: \_\_\_\_\_
3. Name: \_\_\_\_\_  
Amount: \_\_\_\_\_
4. Name: \_\_\_\_\_  
Amount: \_\_\_\_\_
5. Name: \_\_\_\_\_  
Amount: \_\_\_\_\_

By signature below, I hereby certify that the information provided above is true and accurate as of the date of execution of this document, and I further understand that annual certification is required for information provided in paragraph (e) above.

\_\_\_\_\_  
Signature and Title (required)

\_\_\_\_\_  
Date

\*“Total compensation” means the cash and noncash dollar value earned by the executive during the Subcontractor’s preceding fiscal year and includes the following (for more information see 17 CFR 229.402(c)(2)):

- (1) *Salary and bonus.*
- (2) *Awards of stock, stock options, and stock appreciation rights.* Use the dollar amount recognized for financial statement reporting purposes with respect to the fiscal year in accordance with the Financial Accounting Standards Board’s Accounting Standards Codification (FASB ASC) 718, Compensation-Stock Compensation.
- (3) *Earnings for services under non-equity incentive plans.* This does not include group life, health, hospitalization or medical reimbursement plans that do not discriminate in favor of executives and are available generally to all salaried employees.
- (4) *Change in pension value.* This is the change in present value of defined benefit and actuarial pension plans.
- (5) *Above-market earnings on deferred compensation which is not tax-qualified.*
- (6) Other compensation, if the aggregate value of all such other compensation (e.g., severance, termination payments, value of life insurance paid on behalf of the employee, perquisites or property) for the executive exceeds \$10,000.

\*\*“Executive” means officers, managing partners, or any other employees in management positions.

I hereby certify that the above statements are true and accurate, to the best of my knowledge.

Authorized Signature: \_\_\_\_\_

Name and Title of Signatory: \_\_\_\_\_

Date: \_\_\_\_\_

## **Annex A: Specifications and Technical Requirements for Office Security Equipment and Installation**

### **1- Security IP Camera with installation according to the below specifications:**

Full metal housing.

Up to 3840X2160@20fps.

S+265/H.265/H.264 Codec.

Min. illumination color: 0.01Lux@F1.6.

120dB WDR.

Smart IR, IR Range: 50m.

Support tripwire and perimeter.

Built-in mic, sd card slot, reset button.

Operating conditions are something near to -35°~65°, 0~95% RH.

POE, IP67.

Model: CamScan SME8-IPIR.50F or equivalent.

### **2- Security Camera DVR compatible with line No. 1**

### **3- 24 Ports Switch for the Security system with installation compatible with line No. 1 according to the below specifications:**

- Supports Power over Ethernet (PoE) with up to 32W per PoE port.
- Provides advanced PoE transmission with 24 ports operating at 100/10 Mbps.
- Can function in harsh conditions with an operating temperature range of 0 to 60°C.
- Equipped with a colored LCD information display.
- Includes status lights for monitoring operational conditions and facilitating error analysis.
- Two SFP ports are available for additional connectivity.
- Auto-detects cameras for quick setup.

LCD Information Screen Features:

- Displays the precise status of each port, including:
  - Output power

- Overload
- Short circuit
- Light load
- Low voltage
- Overvoltage
- High temperature

Model: Eyeping Security system GS-SW2-28S or equivalent.

**4- Smart TV for CCTV to display the feed from security Cameras with installation according to the below specifications:**

WebOS Smart TV with QUAD CPUs

49": edge with 3840 x 2160 resolution

True motion 120 RR

Wide Viewing Angle with Local Dimming and Ultra Luminance

Active HDR

HDR Dynamic Tone Mapping

Bluetooth and Wi-Fi USB, LAN connections

Minimum of 2 HDMI (2.0)

including tv mount and installation

Model: LG NanoCell AI ThinQ 49" 49NANO80VNA or equivalent.

**5- Smart TV for CCTV to display the feed from security Cameras with installation according to the below specifications:**

WebOS Smart TV with QUAD CPUs

55": edge with 3840 x 2160 resolution

True motion 120 RR

Wide Viewing Angle with Local Dimming and Ultra Luminance

Active HDR

HDR Dynamic Tone Mapping

Bluetooth and Wi-Fi USB, LAN connections

Minimum of 2 HDMI (2.0)

including TV mount and installation

Model: LG Nano Cell AI ThinQ 55" 49NANO80VNA or equivalent.

**6- NVR - Cloud Base NVR with installation according to the below specifications:**

S+265/H.265/H.264 Video formats

Connectable to third-party network cameras.

Up to 40 IP cameras can be connected.

Supports live view, storage, and playback of the connected camera at up to 12MP resolution

HDMI and VGA simultaneous output.

HDMI Video output at up to 4K (3840 × 2160) resolution.

4 SATA interfaces connectable for recording and backup, up to 10TB for each HDD.

2 Self-adaptive 10/100/1000 Mbps network interfaces.

VCA detection alarm is supported.

Web6 supports plug-in-free browsing and can preview videos on all browsers.

Model: CAMSCAN NVR6-40CH.4HDD or equivalent

**7- Electric Bolt Lock SDC Excel E600 - including cables and installation**

**8- Fingerprint Reader, Multiclass BioEntry W2 with cable and installation according to the specifications in the below table:**

| Attribute                   | Details                              |
|-----------------------------|--------------------------------------|
| Audible indication          | Yes                                  |
| Color                       | Black                                |
| Credential type             | Cards/keyfobs/tokens; Biometric data |
| Dimensions (H x W x D) (mm) | 50 x 172 x 43.50 mm                  |
| IP rating                   | IP67                                 |
| Keypad                      | No                                   |
| LED indication              | Multi-color                          |
| Number of users             | 400,000                              |
| Operating temperature (°C)  | -20 – 50 °C                          |

|                       |                                                                                                                        |
|-----------------------|------------------------------------------------------------------------------------------------------------------------|
| Optical indication    | LED                                                                                                                    |
| Protocols / standards | TCP; OSDP                                                                                                              |
| Reader interfaces     | Wiegand; RS485                                                                                                         |
| Reading format        | MIFARE Classic (Bosch data record); MIFARE DESFire EV1 (Bosch data record); iCLASS; iCLASS SE; EM 4102; HID Prox; Seos |
| Weight (g)            | 251 g                                                                                                                  |
| Wiring connection     | Terminal Strip                                                                                                         |
| Model                 | Bosch Multiclass BOSCH BioEntry M2 ARD-FPBEW2-H2 or Equivalent                                                         |

**9- USB card enrollment reader according to the specifications in the below table:**

| Attribute                   | Details                                                                    |
|-----------------------------|----------------------------------------------------------------------------|
| Cable length (m)            | 2 m                                                                        |
| Color                       | Any                                                                        |
| Dimensions (H x W x D) (mm) | 27 x 54 x 112 mm                                                           |
| External connectivity       | USB                                                                        |
| Material                    | Plastic; Plastic (ABS)                                                     |
| Operating temperature (°C)  | -25 – 60 °C                                                                |
| Protocols / standards       | USB                                                                        |
| Reading format              | MIFARE Classic (Bosch data record); MIFARE DESFire EV1 (Bosch data record) |
| Storage temperature (°C)    | -30 – 70 °C                                                                |
| Usage                       | Indoor                                                                     |
| Model                       | Bosch LECTUS enroll 5000 MD BOSCH ARD-EDMCV002-USB or Similar              |

**10- AMC2 - Access Modular Controller Door controller Wiegand with CF card with cable and installation according to the specifications in the below table:**

| Attribute                   | Details                |
|-----------------------------|------------------------|
| Color                       | Any                    |
| Dimensions (H x W x D) (in) | 3.54 x 9.13 x 2.48 in  |
| Dimensions (H x W x D) (mm) | 90 x 232 x 63 mm       |
| Host interface              | RS485; RS232; Ethernet |
| Input voltage (VDC)         | 10 – 30 VDC            |
| IP rating                   | IP30                   |
| Material                    | Plastic                |
| Mounting type               | Rail-mounted           |
| Number of analog inputs     | 8                      |
| Number of reader interfaces | 4                      |
| Number of relay outputs     | 8                      |
| Operating temperature (°C)  | 0 – 50 °C              |
| Operating temperature (°F)  | 32 – 122 °F            |
| Reader interfaces           | Wiegand                |

|             |                                   |
|-------------|-----------------------------------|
| Weight (g)  | 520 g                             |
| Weight (lb) | 1.17 lb                           |
| Model       | Bosch APC-AMC2-4WCF or equivalent |

**11- Desktop server according to the specifications in the below table:**

| <b>Attribute</b> | <b>Details</b>                                                  |
|------------------|-----------------------------------------------------------------|
| CPU options      | Intel Core i7 9700 3.00GHz                                      |
| Dedicated GPU *  | Intel UHD graphics 630                                          |
| RAM              | 16 GB DIMM DDR4-2666                                            |
| SSD hard         | 512 GB                                                          |
| USB ports        | (4x) USB-A 3.0; (4x) USB-A 2.0;                                 |
| Video ports      | DisplayPort; VGA;                                               |
| Other ports      | RJ45; Headset Line-Out; Line-In;                                |
| Optional ports   | SD card reader; Serial; Serial and (2x) PS2; DP/HDMI/VGA/USB-C; |
| PCI slots        | PCIe 3.0 x16; (2x) PCIe 3.0 x1;                                 |
| M.2 slots        | M.2 2280/2230 M-key (PCIe x4); M.2 2230 (WiFi/BT)               |
| Drive bays       | 2.5/3.5in; 3.5in; 5.25in (slim)                                 |
| PSU              | 180/250/310 W                                                   |
| Connection       | WiFi-LAN                                                        |
| Model            | HP ProDesk 400 G6 MT or Equivalent                              |