# REQUEST FOR QUOTATION NO. RFQ23/02771:

**Procurement and installation of equipment to develop the Video Monitoring Systems in the municipalities of Cahul and Ungheni (2 LOTs)**

**SECTION 1: REQUEST FOR QUOTATION (RFQ)**

UNDP through the EU4Moldova: Focal Regions Programme, kindly requests your quotation for the: **Procurement and installation of equipment to develop the Video Monitoring System in the municipalities of Cahul and Ungheni** as detailed in line items section of this Request for Quotation no. RFQ23/02771.

This Request for Quotation comprises the following documents:

Section 1: This RFQ document generated by the online system

Section 2: RFQ Instructions and Data

Annex 1: Schedule of Requirements

Annex 2: Quotation Submission Form

Annex 3: Technical and Financial Offer

Annex 4: Technical Responsiveness Table

Annex 5: LOT 1 – Execution Project: Video Monitoring System. Street monitoring in Ungheni municipality

Annex 6: LOT 2 – Execution Project: installation of a video monitoring system in the Centre Area, Central Park and waste collection points in Cahul municipality

Annex 7: LOT 1 – Bills of Quantity (Romanian language)

Annex 8: LOT 2 – Bills of Quantity (Romanian language)

When preparing your quotation, please be guided by the RFQ Instructions and Data. Please note that quotations must be submitted directly in the system responding to the questions and uploading required documents by the date and time indicated in the online portal. It is your responsibility to ensure that your quotation is submitted before the deadline. Quotations received after the submission deadline outside the online portal, for whatever reason, will not be considered for evaluation.

Quotations must be submitted directly in Quantum NextGenERP supplier portal following the link: http://supplier.quantum.partneragencies.org using the profile you may have in the portal (please log in using your username and password).

Follow the instructions in the user guide to search for the tender using search filters, namely **Negotiation ID: UNDP-MDA-00351** and subscribe to the tender in order to get notifications in case of amendments of the tender document and requirements.

In case you have never registered before, follow this link to register a profile: https://estm.fa.em2.oraclecloud.com/fscmUI/faces/PrcPosRegisterSupplier?prcBuId=30000012771424 7

**Please note that the access link to the Supplier registered profile is sent from Oracle within up to 3 days. In case you have not received the access link after 3 days since registration, you should address for support to UNDP at the email address: sc.md@undp.org.** In case you encounter errors with registration (e.g. system states Supplier already is registered), you should address for support to UNDP at the email address: sc.md@undp.org.

Computer firewall could block *oracle* or *undp.org extension* and Suppliers might not receive the Oracle notifications. Please turn down any firewalls on your computers to ensure receipt of email notification.

Do not create a new profile if you already have one. Use the forgotten password feature in case you do not remember the password or the username from previous registration.

Should you require further clarifications on the application through the Quantum online portal, kindly contact the Procurement Unit at sc.md@undp.org. Please pay attention that the bid shall be submitted online through the Quantum system and any bid sent to the above email shall be disqualified.

Should you require further clarifications on the Request for Quotation, Terms of Reference or other requirements, kindly communicate using the messaging functionality in the portal.

Deadline for Submission of Offers (Date and Time), which is visible in the online procurement system will be final. System will not accept submission of any bid after that date and time. It is the responsibility of the bidder to make sure that the bid is submitted prior to this deadline for submission.

Bidders are advised to upload bid documents and to submit their offer a day prior or well before the date and time indicated under the deadline for submission of Offers. Do not wait until last minute. If Bidder faces any issue during submitting offers at the last minutes prior to the deadline for submission, UNDP may not be able to assist on such a short notice and will not be held liable in such instance. UNDP will not accept any offer that is not submitted directly through the System.

Thank you and we look forward to receiving your quotation.

UNDP Moldova

**SECTION 2: GENERAL INSTRUCTIONS**

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| **Introduction** | Bidders shall adhere to all the requirements of this RFQ, including any amendments made in writing by UNDP. This RFQ is conducted in accordance with the <u>UNDP Programme and Operations Policies and Procedures (POPP) on Contracts and Procurement</u><br><br>Any Bid submitted will be regarded as an offer by the Bidder and does not constitute or imply the acceptance of the Bid by UNDP. UNDP is under no obligation to award a contract to any Bidder as a result of this RFQ.<br><br>UNDP reserves the right to cancel the procurement process at any stage without any liability of any kind for UNDP, upon notice to the bidders or cancellation of the tender in the online portal. |
| **Deadline for the Submission of Quotation** | Deadline is indicated in the online portal.<br>If any doubt exists as to the time zone in which the quotation should be submitted, refer to <u>http://www.timeanddate.com/worldclock/</u>. |
| **Method of Submission** | Quotations must be submitted as follows:<br><br>NextGenERP supplier portal following this link: <u>http://supplier.nextgenerp.partneragencies.org/</u> using the profile you may have in the portal.<br><br>Follow the instructions in the user guide to search for the tender using Negotiation ID. In case you have never registered before, follow this link to register a profile:<br><br><u>https://estm.fa.em2.oraclecloud.com/fscmUI/faces/PrcPosRegisterSupplier?prcBuId=300000127715297&_adf.ctrl-state=8godmwdd9_239&_afrLoop=7321117556612874&_afrWindowMode=0&_afrWindowId=null&_afrFS=16&_afrMT=screen&_afrMFW=1920&_afrMFH=880&_afrMFDW=1920&_afrMFDH=1080&_afrMFC=8&_afrMFCI=0&_afrMFM=0&_afrMFR=96&_afrMFG=0&_afrMFS=0&_afrMFO=0</u><br><br>Do not create a new profile if you already have one. Use the forgotten password feature in case you do not remember the password or the username from previous registration.<br><br>▪ File Format: All attachments must be in PDF format unless otherwise instructed by UNDP.<br>▪ File names must be in Latin alphabet/keyboard and clearly indicate the content of the document to facilitated review.<br>▪ All files must be free of viruses and not corrupted. |
| **Cost of preparation of quotation** | UNDP shall not be responsible for any costs associated with a Supplier's preparation and submission of a quotation, regardless of the outcome or the manner of conducting the selection process. |

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| **Supplier Code of Conduct, Fraud, Corruption,** | All prospective suppliers must read the United Nations Supplier Code of Conduct and acknowledge that it provides the minimum standards expected of suppliers to the UN. The Code of Conduct, which includes **principles on labour, human rights, environment and ethical conduct** may be found at: https://www.un.org/Depts/ptd/about-us/un-supplier-code-conduct

Moreover, UNDP strictly enforces a policy of zero tolerance on proscribed practices, including fraud, corruption, collusion, unethical or unprofessional practices, and obstruction of UNDP vendors and requires all bidders/vendors to observe the highest standard of ethics during the procurement process and contract implementation. UNDP's Anti-Fraud Policy can be found at http://www.undp.org/content/undp/en/home/operations/accountability/audit/office_of_audit_andinvestigation.html#anti |
| **Gifts and Hospitality** | Bidders/vendors shall not offer gifts or hospitality of any kind to UNDP staff members including recreational trips to sporting or cultural events, theme parks or offers of holidays, transportation, or invitations to extravagant lunches, dinners or similar. In pursuance of this policy, UNDP: (a) Shall reject a bid if it determines that the selected bidder has engaged in any corrupt or fraudulent practices in competing for the contract in question; (b) Shall declare a vendor ineligible, either indefinitely or for a stated period, to be awarded a contract if at any time it determines that the vendor has engaged in any corrupt or fraudulent practices in competing for, or in executing a UNDP contract. |
| **Conflict of Interest** | UNDP requires every prospective Supplier to avoid and prevent conflicts of interest, by disclosing to UNDP if you, or any of your affiliates or personnel, were involved in the preparation of the requirements, design, specifications, cost estimates, and other information used in this RFQ. Bidders shall strictly avoid conflicts with other assignments or their own interests, and act without consideration for future work. Bidders found to have a conflict of interest shall be disqualified.

Bidders must disclose in their Bid their knowledge of the following: a) If the owners, part-owners, officers, directors, controlling shareholders, of the bidding entity or key personnel who are family members of UNDP staff involved in the procurement functions and/or the Government of the country or any Implementing Partner receiving goods and/or services under this RFQ.

The eligibility of Bidders that are wholly or partly owned by the Government shall be subject to UNDP's further evaluation and review of various factors such as being registered, operated and managed as an independent business entity, the extent of Government ownership/share, receipt of subsidies, mandate and access to information in relation to this RFQ, among others. Conditions that may lead to undue advantage against other Bidders may result in the eventual rejection of the Bid. |
| **Currency of Quotation** | Quotations shall be quoted in the currency indicated in the portal. |
| **Joint Venture, Consortium or Association** | If the Bidder is a group of legal entities that will form or have formed a Joint Venture (JV), Consortium or Association for the Bid, they shall confirm in their Bid that : (i) they have designated one party to act as a lead entity, duly vested with authority to legally bind the members of the JV, Consortium or Association jointly and severally, which shall be evidenced by a duly notarized Agreement among the legal entities, and submitted with the Bid; and (ii) if they are awarded the contract, the contract shall be entered into, by and between UNDP and the designated lead entity, who shall be acting for and on behalf of all the member entities comprising the joint venture, Consortium or Association.
Refer to Clauses 19 – 24 under Solicitation policy for details on the applicable provisions on Joint Ventures, Consortium or Association. |

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| **Only one Bid** | The Bidder (including the Lead Entity on behalf of the individual members of any Joint Venture, Consortium or Association) shall submit only one Bid, either in its own name or, if a joint venture, Consortium or Association, as the lead entity of such Joint Venture, Consortium or Association.<br><br>Bids submitted by two (2) or more Bidders shall all be rejected if they are found to have any of the following:<br><br>a) they have at least one controlling partner, director or shareholder in common; or b) any one of them receive or have received any direct or indirect subsidy from the other/s; or<br><br>b) they have the same legal representative for purposes of this RFQ; or<br><br>c) they have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about, or influence on the Bid of, another Bidder regarding this RFQ process;<br><br>d) they are subcontractors to each other's Bid, or a subcontractor to one Bid also submits another Bid under its name as lead Bidder; or<br><br>e) some key personnel proposed to be in the team of one Bidder participates in more than one Bid received for this RFQ process. This condition relating to the personnel, does not apply to subcontractors being included in more than one Bid. |
| **Price variation** | No price variation due to escalation, inflation, fluctuation in exchange rates, or any other market factors shall be accepted at any time during the validity of the quotation after the quotation has been received. |
| **Alternative Quotes** | If alternative quote is permitted, it may be submitted only if a conforming quote to the RFQ requirements is submitted. Where the conditions for its acceptance are met, or justifications are clearly established, UNDP reserves the right to award a contract based on an alternative quote. If multiple/alternative quotes are being submitted, they must be clearly marked as "Main Quote" and<br>"Alternative Quote" directly in the portal and in any supporting document as relevant. |
| **Contact Person for correspondence, notifications and clarifications** | Must be submitted directly in the portal using the messaging functionality.<br><br><span style="color:red">Any delay in UNDP's response shall be not used as a reason for extending the deadline for submission, unless UNDP determines that such an extension is necessary and communicates a new deadline to the Proposers.</span> |
| **Right not to accept any quotation** | UNDP is not bound to accept any quotation, nor award a contract or Purchase Order |
| **Right to vary requirement at time of award** | At the time of award of Contract or Purchase Order, UNDP reserves the right to vary (increase or decrease) the quantity of services and/or goods, by up to a maximum twenty-five per cent (25%) of the total offer, without any change in the unit price or other terms and conditions. |
| **Publication of Contract Award** | UNDP will publish the contract awards on the websites of the CO and the corporate UNDP Web site. |
| **Policies and procedures** | This RFQ is conducted in accordance with [UNDP Programme and Operations Policies and Procedures](#) |
| **UNGM registration** | Any Contract resulting from this RFQ exercise will be subject to the supplier being registered at the appropriate level on the United Nations Global Marketplace (UNGM) website at [www.ungm.org](http://www.ungm.org). The Bidder may still submit a quotation even if not registered with the UNGM, however, if the Bidder is selected for Contract award, the Bidder must register on the UNGM prior to contract<br>signature. |

**SECTION 2: SPECIAL INSTRUCTIONS**

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| **General Conditions of Contract** | Any Purchase Order or contract that will be issued as a result of this RFQ shall be subject to one of the General Conditions of Contract below as applicable in each case specified in the Requirements section<br><br>Applicable GTC:<br><br>☒ General Terms and Conditions / Special Conditions for Contract.<br><br>Applicable Terms and Conditions and other provisions are available at UNDP/How-we-buy |
| **Special Conditions of Contract** | ☒ Cancellation of PO/Contract if the delivery/completion is delayed by 30 days<br><br>☒ **Liquidates damages** shall be imposed as follows:<br><br>Percentage of contract price per week of delay: 2.5% up to a maximum of 10%, after which UNDP may terminate the contract. |
| **Duties and taxes** | Article II, Section 7, of the Convention on the Privileges and Immunities provides, inter alia, that the United Nations, including UNDP as a subsidiary organ of the General Assembly of the United Nations, is exempt from all direct taxes, except charges for public utility services, and is exempt from customs restrictions, duties, and charges of a similar nature in respect of articles imported or exported for its official use. All quotations shall be submitted net of any direct taxes and any other taxes and duties, unless otherwise specified in the requirements section.<br><br>All prices must:<br><br>☒ be exclusive of VAT and other applicable indirect taxes |
| **Eligibility** | A vendor who will be engaged by UNDP may not be suspended, debarred, or otherwise identified as ineligible by any UN Organization or the World Bank Group or any other international Organization. Vendors are therefore required to disclose to UNDP whether they are subject to any sanction or temporary suspension imposed by these organizations. Failure to do so may result in termination of any contract or PO subsequently issued to the vendor by UNDP.<br><br>It is the Bidder's responsibility to ensure that its ultimate beneficial owners, employees, joint venture members, sub-contractors, service providers, suppliers and/or their employees meet the eligibility requirements as established by UNDP.<br><br>Bidders must have the legal capacity to enter a binding contract with UNDP and to deliver in the country, or through an authorized representative. |
| **Language of quotation** | **English**<br><br>Including documentation including catalogues, instructions and operating manuals. |
| **Quotation validity period** | Quotations shall remain valid for **90 (ninety)** days from the deadline for the Submission of Quotation. |
| **Partial Quotes** | ☒ Permitted per entire LOT 1 (Ungheni municipality), or LOT 2 (Cahul municipality) |
| **Alternative Quotes** | ☒ Not permitted |

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| **Payment Terms** | ☒ 100% within 30 days after receipt of goods, works and/or services and submission of payment documentation. |
| **Conditions for Release of Payment** | ☒ Passing Inspection. Complete Installation<br><br>☒ Passing all Testing<br><br>☒ Completion of Training on Operation and Maintenance - at least two trainees in Ungheni (LOT 1) and two trainees in Cahul (LOT 2) municipalities<br><br>☒ Written Acceptance of Goods, Services and Works, based on full compliance with RFQ requirements |
| **Clarifications** | Bidders must send their inquiries and requests for clarifications using the messaging functionality in the portal.<br><br>PLEASE PAY ATTENTION: QUOTES SHALL NOT BE SUBMITTED TO ANY EMAIL ADDRESS BUT ONLY THROUGH THE PORTAL.<br><br>Requests for clarification from bidders will not be accepted any later than **5 (five) days** before the submission deadline. Responses to request for clarification will be communicated directly in the portal. |
| **Documents to be submitted** | ☒ Annex 2: Quotation Submission Form duly completed and signed<br><br>☒ Annex 3: Technical and Financial Offer duly completed and signed and in accordance with the Schedule of Requirements in Annex 1, detailing product description / brochures, price quotation per item/work, additional costs and subtotal per each LOT<br><br>☒ Annex 4: Technical Responsiveness Table duly completed and signed<br><br>☒ Detailed description of the offered goods, including Technical Data Sheet and photos<br><br>☒ Company Profile, including detailed portfolio/previous corporate experience in similar fields related to the assignment<br><br>☒ Copy of Company's Registration certificate<br><br>☒ List and value of 2 (two) completed and/or ongoing contracts for similar design services undertaken within the past 3 (three) years including the following information:<br><br>   • Name of previous contracts<br>   • Client & Reference Contact<br>   • Details including e-mail<br>   • Contract Value Period of activity<br>   • Types of services undertaken<br>*Evidence (contracts) may be requested from the supplier during the technical evaluation.*<br><br>☒ Statement of satisfactory Performance (Certificates) from the top 2 clients in terms of Contract value in similar field<br><br>☒ Certificates of Conformity, Quality Certificate (e.g., ISO, etc.) from the Manufacturer; compatibility with NIS Directive ENISA, and / or other similar certificates, accreditations, awards and citations received by the Bidder, if any<br><br>☒ Statement of warranty on offered goods in accordance with the Schedule of Requirements in Annex 1<br><br>☒ Name and address of the authorized Service Center in Chisinau/ Moldova for warranty/ guarantee repair, maintenance services, including contract/ agreement<br><br>☒ Evidence/Certification of Environmental Sustainability ("Green" Standards) of the Company or the Product being supplied (if any)<br><br>☒ Export/Import Licenses, if applicable |

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| | ☒ Official appointment as local representative, if Bidder is submitting a Bid on behalf of an entity located outside the country |
| **Evaluation method** | ☒ The Contract will be awarded to the lowest price substantially compliant offer per Lot |
| **Evaluation criteria** | ☒Full compliance with all requirements as specified in Annex 1<br>☒ Full acceptance of the General Conditions of Contract<br>☒ Be legally registered entity or a consortium of firms/organizations<br>☒ Minimum 3 (three) years' experience in supplying and installation of video monitoring systems<br>☒Availability of authorized service in Moldova and comprehensiveness of after-sales services<br>☒Earliest Delivery /shortest lead time<br>☒ Minimum 2 similar (in terms of type and volume of goods/works/services) contracts undertaken in the past 3 (three) years<br>☒ Maximum delivery and installation period not to exceed 90 calendar days upon signature of contract |
| **Type of Contract to be awarded** | ☒ [Contract Face Sheet](#) (Goods and-or Services) |
| **Expected date for contract award** | 29 January 2024 |

**ANNEX 1: SCHEDULE OF REQUIREMENTS**

A comprehensive video monitoring system will help local public authorities to intervene in an efficient and timely manner, providing assistance to citizens in various difficult or emergency situations, such as fires, floods, accidents, health problems or any other natural disaster.

The video monitoring systems developed in the framework of this RFQ23/02771 must offer the possibility of developing existing systems, which are managed from the Video Monitoring Centres located in the Ungheni and Cahul Police Inspectorates, which are to be additionally equipped with appropriate equipment.

The proposed solution should allow the interconnection of existing and new systems by adding video monitoring equipment (installation of new cameras, NVRs, workstations, monitors - all compatible with the existing equipment) and connecting them to the existing data network of the video monitoring system, according to the detailed Execution Projects which are part of this RFQ23/02771.

Also, the developed video monitoring system must offer an alternative interconnection with other third parties through an external access module that will facilitate the transmission of data (image captures and/or video recordings) to third parties (institutions or authorized structures) with which the beneficiary collaborates. The IP cameras and DVR/NVR equipment must comply with the requirements of the SMART City platform, managed by the Ungheni and Cahul Mayoralties, and support API connection via http(s).

The IP cameras will be installed in public spaces related to the specified locations in Cahul and Ungheni municipalities, aimed at covering certain areas of public interest such as intersections, streets, recreational areas, public institutions, waste management platforms, by installing an additional number of video cameras on pillars. The exact locations of the IP cameras installation are indicated in the following Annexes of this RFQ23/02771, as follows:

- LOT1: Annex no. 5
- LOT2: Annex no. 6

Information from the IP cameras will be transmitted and processed in the Video Monitoring Centers located at the Police Inspectorate Offices:

- LOT 1: Police Inspectorate, 20 Nationala Street, Ungheni municipality, Republic of Moldova.
- LOT 2: Police Inspectorate,  28-30, 31 August 1989 Street, Cahul municipality, Republic of Moldova.

The system architecture in both municipalities must be designed modularly to provide a high degree of scalability.

**TECHNICAL SPECIFICATIONS FOR GOODS AND SERVICES FOR UNGHENI MUNICIPALITY (LOT1):**

| Item No | Minimum technical requirements | Unit | Quantity |
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| **1.** | **VIDEO MONITORING CENTER** | | |
| 1.1 | **Video storage server**<br>• Web User Interface<br>• HDD Slot: min. 16 HDDs<br>• Capacity for each HDD: 10TB or more<br>• Video performance: min. 320-channel<br>• HDD Support: single, RAID (Entreprise Hard Disk)<br>• RAID support (RAID 0, 1, 5, 6, 10, 50,60, JBOD, hotspare)<br>• Support iSCSI volume management<br>• Network: 2 RJ-45 ports (10/100/1000Mbps), ONVIF<br>• Auxiliary interface: USB 2.0, USB 3.0, Com port (RS232), miniSAS port<br>• Power Supply: AC100V-240V<br>• Record Mode: Manual, Continuous, Motion Detection, Alarm<br>• Compatible with INVIPO Smart City Platform (data transmission documented API via HTTP(S))<br>• Network access to each camera separately (e.g., using communication with the parent video server but keeping format requirements valid)<br>• API endpoints:<br>  - Static image (jpeg format), i.e. http://{ip_address}:{port}/ISAPI/Streaming/channels/1/picture<br>  - Video stream (mjpeg format), i.e. http://{ip_address}:{port}/ISAPI/Streaming/channels/2/httpPreview<br>**Warranty: minimum 2 years** | Pcs. | 1 |
| 1.2 | **High-Performance Surveillance HDD**:<br>• Hard drive – Internal 3.5"<br>• Capacity: 10TB<br>• Interface: SATAIII 6Gb/s<br>• Rotational Vibration Sensors: Yes<br>• Internal Data Rate: 180Mb/s<br>• Drive Transfer Data: 600MB/s (external)<br>• Cache: 256Mb<br>• Supports up to 180 TB/yr workload rate<br>• **Compatible with Video storage server in pt. 1.1.**<br>**Warranty: minimum 2 years** | Pcs. | 16 |
| 1.3 | **Video Management System Server**<br>• Main Processor: 64-bit 4 core CPU<br>• Operating System: Linux<br>• Memory: min. 8GB<br>• Network Ports: 4 Ethernet Ports (10/100/1000Mbps)<br>• USB Port: 4 × USB 3.0, 2 HDMI, 1 VGA<br>• HDD Storage<br>• For System: Built-in 1× 1T HDD disk (2.5")<br>• For Video & Pictures: Support for 3 HDD disks (2.5")<br>• Video Management | Pcs. | 1 |

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| | - Video: min. 256 Channels<br>- Facial Recognition: 32 Channels<br>- Installation Method: Standard 19" rack installation<br>- Compatible with INVIPO Smart City Platform (data transmission documented API via HTTP(S))<br>- Network access to each camera separately (e.g., using communication with the parent video server but keeping format requirements valid)<br>- API endpoints:<br>  - Static image (jpeg format), i.e. http://{ip_address}:{port}/ISAPI/Streaming/channels/1/picture<br>  - Video stream (mjpeg format), i.e. http://{ip_address}:{port}/ISAPI/Streaming/channels/2/httpPreview<br>**Warranty: minimum 3 years** | | |
| 1.4 | **Software + licenses** (for 52 video surveillance cameras)<br>Software has to be able to provide event analytics, vehicle detection by category, face detection/crowd detection, stored information analytics, etc. | Set | 1 |
| 1.5 | **Uninterruptible power supply**<br>- UPS transformer type: Linear-interactive<br>- Number of connectors: 4<br>- Output connector types: Schuko CEE 7/4<br>- Output power capacity: 1600 VA<br>- Maximum Load: 900 W<br>- Output Voltage: 230 VInput Voltage: 110~240 VAC<br>**Warranty: minimum 2 years** | Pcs. | 1 |
| 1.6 | **Power Distribution Unit**<br>- 16A, 200-240V, 50/60Hz<br>- 8 sockets Schuko CEE 7/3, min. 2m cable length<br>**Warranty: minimum 2 years** | Pcs. | 1 |
| **2.** | **VIDEO WALL** | | |
| 2.1 | **LCD Monitor 49"-55" (16:9)**<br>- Resolution: 4K UHD (3840 x 2160)<br>- Response Time: ≤ 5 ms.<br>- Backlight: LED<br>- Inputs: HDMI, VGA(D-Sub), USB, Audio, Ethernet<br>- Viewing Angle: 178°/178° (horizontal/vertical)<br>- Mounting Options: VESA<br>- Brightness/Luminance: 350 cd/m$^2$<br>- Contrast Ratio: 1200:1<br>- Certifications: CE/FCC<br>- Power Supply: AC100~240V 50/60 Hz<br>- Suitable for continuous 24/7 operation<br>**Warranty: minimum 2 years** | Pcs. | 4 |
| 2.2 | HDMI Cable DP to HDMI or HDMI to HDMI 10.0m | Pcs. | 4 |
| 2.3 | Wall Mount for 55" Flat Screen/LED/4K Monitor, VESA compatible | Pcs. | 4 |
| 2.4 | **Computer for Operator**<br>- Processor: min 14 total cores, performance-core base frequency 2.5-4.8 GHz or similar, production - no earlier than Q1 2023. | Pcs. | 2 |

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| | • Motherboard: ATX form factor, support: Slot M2 PCIe Gen4 x4 (64 Gb/s), RAID( 0,1,5,10), min 4x DIMM memory slots, USB Type-C, HDMI port, Cooler with min 66CFM, 120mm, 220W, 600g<br>• RAM: 32GB DDR5 5600MHZ, SSD: 1TB NVMe 3DTLC PCIe 4.0x4 R/W: 7000/5100MB/s<br>• Video card: memory – min 4 GB DDR6, min. 1 DP, 1HDMI output ports.<br>• Network interface: 1 x 2.5 Gbps RJ-45.<br>• Power supply source: min 700W, 80+ Gold certification, semi-modular or fully modular<br>• PC Case Fan 120x120  min 66CFM<br>• Case ATX, USB 3.0<br>• Wireless keyboard/mouse – Eng/Ro/Ru layout.<br>• Operating system: MS Windows 11 Pro 64-bit.<br>**Warranty: minimum 2 years.** | | | |
| 2.5 | **Monitor for Operator' PC**<br>• Minimum 27"<br>• Brightness/Luminance: 350 cd/m$^2$, Viewing angle: 178°/178° (horizontal/vertical). Screen resolution: 2560x1440.<br>• Response Time: ≤ 5 Ms.<br>• Eye protection functions.<br>• Interfaces: HDMI, VGA.<br>• Certifications: CE/FCC<br>• Power Supply: AC100~240V 50/60 Hz.<br>• Suitable for continuous 24/7 operation.<br>**Warranty: minimum 2 years.** | Pcs. | 2 | |
| 2.6 | **Uninterruptible power supply**<br>• UPS transformer type: Linear-interactive<br>• Output power capacity : 800 VA<br>• Maximum load : 480 W<br>• Input voltage : 170~280 VAC<br>• Number of connectors : 2 Sockets<br>• Output connector types: Schuko CEE 7/3 | Pcs. | 2 | |
| 2.7 | Software for video wall | Set | 1 | |
| 2.8 | **Video wall controller**<br>• Multiple signal sources support (VGA, DVI, HDMI, DP, etc.)<br>• Up to 3840 × 2160@30 Hz resolution for HDMI and DP signal inputs<br>• Decoding: H.264 and H.265 compression standard to display 2-ch@8.0 MP, 2-ch@6.0 MP, 2-ch@5.0 MP, 8-ch@1080p, 16-ch@720p and 32-ch@D1 signals<br>• Lossless output of 60 frames<br>• Compatible with wireless projection<br>• Adjustable LED background color<br>• 1/4/9/16 window division modes support and full-screen switch of the window<br>• Minimum 20 board slots (10 x Input, 10 x Output)<br>**Warranty: minimum 2 years** | Pcs. | 1 | |

| 3. | OUTDOOR VIDEO MONITORING SYSTEM | | |
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| 3.1 | **IP Camera** (type 1)<br>• Camera type: motorized IP PTZ camera<br>• Sensor: CMOS 4 Mp,  Size: 1/2.8"<br>• Outdoor PTZ (Pan-Tilt-Zoom) Features: Pan (Rotation): 360° continuous rotation, Tilt (Inclination): Up to 90°<br>• Focal Length: 4.8 mm to 120 mm<br>• Video Compression: H.265+/H.265/H.264+/H.264<br>• IR distance up to 100 m or more.<br>• Zoom: 25x optical, 16x digital zoom<br>• Micro SD Card Slot: supports 256GB or more<br>• Protection: IP66 Standard or higher<br>• CCTV cyber security built-in<br>• Day/Night Switch: day, night, auto<br>• Surge Protection and Voltage Transient Protection<br>• Support PoE+<br>• Ethernet: RJ-45 (10/100Base-T).<br>• Working temperature: - 40°C / +65°C<br>• Lightning protection: TVS 6000 V<br>• Conformité Européenne (CE) certification<br>• All mounting materials must be included<br>• Compatible with INVIPO Smart City Platform (data transmission documented API via HTTP(S))<br>• Network access to each camera separately (e.g., using communication with the parent video server but keeping format requirements valid)<br>• API endpoints:<br>  - Static image ( jpeg format), i.e. http://{ip_address}:{port}/ISAPI/Streaming/channels/1/picture<br>  - Video stream (mjpeg format), i.e. http://{ip_address}:{port}/ISAPI/Streaming/channels/2/httpPreview<br>**Warranty: minimum 3 years.** | Pcs. | 36 |
| 3.2 | **IP Camera** (type 2 – bullet camera)<br>• Sensor: Type: CMOS 4 Mp, Size: 1/3"<br>• Focal Length: 2.8 – 6 mm or more<br>• Video Compression: H.265+/H.265/H.264+/H.264, MJPEG<br>• IR distance up to 50 m or more<br>• Iris Type: Fixed focal<br>• Zoom: 16x digital zoom<br>• Resolution: up to 2688x1520<br>• MicroSD Card Slot: supports up to 256GB or more<br>• Day/Night : Auto(ICR)/Color/B/W<br>• Protection: IP67<br>• CCTV cyber security built-in<br>• Day/Night Switch: color/B/W/ auto/<br>• Surge Protection and Voltage Transient Protection<br>• Power Supply: 12Vdc, Poe<br>• Built-in MIC: Yes<br>• Ethernet: RJ-45 (10/100Base-T) | Pcs. | 16 |

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| | • Intelligent detection: Yes<br>• BLC, HLC, 3D DNR<br>• Working Environment: -30°C to +60°C<br>• Casing Metal<br>• Compatible with INVIPO Smart City Platform (data transmission documented API via HTTP(S))<br>• Network access to each camera separately (e.g., using communication with the parent video server but keeping format requirements valid)<br>• API endpoints:<br>  - Static image (jpeg format), i.e. http://{ip_address}:{port}/ISAPI/Streaming/channels/1/picture<br>  - Video stream (mjpeg format), i.e. http://{ip_address}:{port}/ISAPI/Streaming/channels/2/httpPreview<br>**Warranty: minimum 3 years.** | | |
| 3.3 | **24 Port Gigabit Switch**<br>• Ethernet Ports: 24 x 10/100/1000 Mbps RJ-45<br>• Switching Capacity: 48Gbps<br>• Packet Forwarding Rate: 35.7 Mpps<br>• MAC Address Table: 8K<br>• Durable metal construction<br>• Lightning protection<br>• Packet Buffer Memory: 2MB<br>• Power: AC: 100-240V; 50/60Hz<br>• Operating Temperature: Typically, 0°C to 40°C<br>• Cooling: Passive cooling design, possibly supplemented with quiet fans<br>• Communication Standard: Compliant with IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.3ab, IEEE 802.3az<br>**Warranty: minimum 2 years.** | Pcs. | 2 |
| 3.4 | **6-Port Cloud Managed Switch with 4-port PoE**<br>• Ethernet Port up to 250 m long-distance power supply<br>• Ethernet Port: 4*10/100 Mbps PoE RJ45<br>• IEEE 802.3at/af/bt standard for PoE ports<br>• Operating Temperature –10 °C to +55 °C<br>• Storage Temperature –40 °C to +70 °C<br>• Switching Capacity min 1.6Gbps<br>• MAC Table Size min 2K<br>• PoE Protocol: Compliant with IEEE802.3af/at, Hi-PoE<br>• Certifications: CE; FCC<br>**Warranty: minimum 2 years** | Pcs. | 36 |
| 3.5 | **Micro SD Memory Card**<br>• Capacity: min. 256GB<br>• Read Speed: Up to 95 MB/s<br>• Write Speed: Up to 40 MB/s<br>• Speed Rating: C10/U3/V30<br>• TBW: up to 50TB<br>• Endurance & Durability: Water-resistant, temperature-proof, shock-proof, X-ray proof, and magnetic-proof. | Pcs. | 52 |

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| | • File System: exFAT | | | |
| | **Warranty: minimum 2 years** | | | |
| 3.6 | **PoE Extender**<br>• Supports passive PoE cascade power supply and Ethernet data exchange<br>• Compliant with the IEEE 802.3af/at standard for powering IP cameras<br>• Transmission Distance: transmission distance up to 300m<br>• Ports: 1x RJ45 10/100M for PoE power supply input<br>• 1x RJ45 10/100M to power the IP camera<br>• 1x RJ45 10/100M to power the next extender<br>• Cooperate with High PoE Midspan, able to cascade level 2 PoE Extender, connect to 3 IPC<br>• Internal junction box mounting<br>• Certification: CE, FCC<br>**Warranty: minimum 2 years** | Pcs. | 36 | |
| 3.7 | **5GHz Outdoor Wireless Base Station**<br>• WLAN Standard: IEEE802.11 a/n<br>• Radio Mode: MIMO 2x2<br>• Transmit Power: Up to 29 dBm<br>• Wireless N speed up to 300Mbps<br>• Channel Size: 5,10, 20, 40 MHz<br>• Transmission Distance: Up to 5 km<br>• Interface: 10/100 Base-T, RJ45<br>• Wireless Operating Modes (Access point (auto WDS), access point (TDMA2), access point (TDMA3), station (WDS, TDMA2,TDMA3), station (ARP NAT))<br>• Network Operating Modes: Bridge, router iPv4, router IPv6<br>• Management: HTTP(S) GUI, SSH, SNMP read, Telnet<br>• Internal Antenna Frequency Range: 5.1 – 5.9 GHz<br>• Antenna Gain: 18 dBi<br>• Power Supply: 12 - 24 VDC passive PoE<br>• Power Source: 100 – 240V AC<br>• Operating Temperature: -30°C ~ +70°C<br>• Certification: CE, FCC<br>**Warranty: minimum 2 years** | Pcs. | 4 | |
| 3.8 | **5GHz Outdoor Wireless CPE**<br>• WLAN Standard: IEEE802.11 a/n<br>• Radio Mode: MIMO 2x2<br>• Transmit Power: Up to 29 dBm<br>• Wireless N speed up to 300Mbps<br>• Channel Size: 5,10, 20, 40 MHz<br>• Transmission Distance: Up to 5 km<br>• Interface: 10/100 Base-T, RJ45<br>• Wireless Operating Modes (Access point (auto WDS), access point (TDMA2), access point (TDMA3), station (WDS, TDMA2, TDMA3 ), station (ARP NAT))<br>• Network Operating Modes: Bridge, router iPv4, router IPv6<br>• Management: HTTP(S) GUI, SSH, SNMP read, Telnet | Pcs. | 36 | |

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|---|---|---|---|
| | • Antenna  Gain: 20 dBi<br>• Power Supply: 12 - 24 VDC passive PoE<br>• Power Source: 100 – 240V AC<br>• Operating Temperature: -30°C ~ +70°C<br>• Certification: CE, FCC<br>**Warranty: minimum 2 years** | | |
| 3.9 | **Telecommunications rack**<br>19-inch 42U 600x600 | Pcs. | 1 |
| 3.10 | **Distribution box**<br>Minimum protection IP66<br>Working temperature: - 40°C / +60°C. | Pcs. | 16 |
| | **Other supplies** | | |
| - | **Fasteners, connectors, cables, other elements according to the Technical Project.** | | |
| | **Other services** | | |
| - | **Full video monitoring system installation, commissioning, and training of the Police Inspectorate Operators and of the IT specialists from the Ungheni Mayoralty, responsible for managing the Smart City Platform will be ensured by the Offeror.** | | |
| - | **Offeror will ensure technical support and maintenance of the video monitoring system during 12 (twelve) months after commissioning of the system.** | | |

**TECHNICAL SPECIFICATIONS FOR GOODS AND SERVICES FOR CAHUL MUNICIPALITY (LOT2):**

| Item No | Minimum technical requirements | Unit | Quantity |
|---|---|---|---|
| **1.** | **VIDEO MONITORING CENTER. ACTIVE EQUIPMENT** | | |
| 1.1 | **Telecommunications rack, 19-inch**<br>• Dimensions 14Ux800x800<br>• Tempered glass front door<br>• Metal rear door and removable sides, Fan included | Set | 1 |
| 1.2 | **Core Switch**<br>• Form-factor: 1 or 2U for rack 19"<br>• Minimum 16x SFP+ 10Gbps ports<br>• Minimum 3x 100/1000MB ports RJ-45<br>• Managed L2/L3 layer with VLAN support<br>• Other ports & supported technologies<br>**Warranty: minimum 2 years** | Pcs. | 1 |
| 1.3 | **Main Router**<br>• Form-factor: 1 or 2U for rack 19"<br>• Minimum 4x 100/1000MB ports RJ-45<br>• Minimum 1x SFP+ 10Gbps port<br>• Mandatory protocols & technologies:<br>  − Managed switching & routing at L2/L3 with VLAN support<br>  − Managed firewall up to L7 with NAT/DNAT support<br>  − VPNs technologies & protocols: IPSec, L2TP<br>• Network management: DHCP relay<br>• Other ports, protocols & technologies are optional<br>**Warranty: minimum 2 years** | Pcs. | 1 |
| 1.4 | **Network Video Recorder**<br>• 64-ch IP Video Input<br>• Codecs: H.265+, H.265, H.264, MPEG4 Decoding<br>• Hard Disks:<br>• Support for up to 10 HDD SATA-III with RAID 0,1,5 (other RAID support are optional)<br>• 10x HDD 10Tb SATA-Ill<br>• Compatible with INVIPO Smart City Platform (data transmission documented API via HTTP(S))<br>• Network access to each camera separately (e.g., using communication with the parent video server but keeping format requirements valid)<br>• API endpoints:<br>  - Static image (jpeg format), i.e. http://{ip_address}:{port}/ISAPI/Streaming/channels/1/picture<br>  - Video stream (mjpeg format), i.e. http://{ip_address}:{port}/ISAPI/Streaming/channels/2/httpPreview<br>**Warranty: minimum 2 years** | Pcs. | 1 |
| 1.5 | **UPS 2200VA**<br>• 2U | Pcs. | 1 |

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| | • 19" rackmount<br>**Warranty: minimum 2 years** | | |
| 1.6 | **High-Performance Surveillance HDD**:<br>• Hard drive – Internal 3.5"<br>• Capacity: 10TB<br>• Interface: SATAIII 6Gb/s<br>• Rotational Vibration Sensors: Yes<br>• Internal Data Rate: 180Mb/s<br>• Drive Transfer Data: 600MB/s (external)<br>• Cache: 256Mb<br>• Supports up to 180 TB/yr workload rate<br>• **Compatible with Network Video Recorder included in pct. 1.4**<br>**Warranty: minimum 2 years** | Pcs. | 10 |
| 1.7 | **Power Distribution Unit**<br>• 16A<br>• 200-240V, 50/60Hz<br>• 8 sockets Single Phase<br>• Vertical mounting for rack 19", EU standard (1U)<br>**Warranty: minimum 2 years** | Pcs. | 1 |
| 1.8 | **Software + licenses** (for 58 video surveillance cameras).<br>Software has to be able to provide event analytics, vehicle detection by category, face detection/crowd detection, stored information analytics, etc. | Set | 1 |
| 1.9 | **Transceiver**<br>1Gbps transceiver, compatible with Core Switch and other switches, including SFP various modules | Pcs. | 40 |
| 1.10 | **ODF Panel, Cross FO for TS 19" 24 ports Cabinet 1 or 2U for rack 19"** | Pcs. | 1 |
| 1.11 | **Computer for Operator**<br>• Processor: x64 bit, 3GHz, min 12 cores<br>• RAM: 32GB DDR5<br>• SSD: 1TB NVMe PCIe 4.0<br>• Video card: memory – min 4 GB DDR5, 2 DP or HDMI output ports, simultaneous displays – min 2 with FullHD resolution<br>• Network interface – 1 x 1 Gbps RJ-45<br>• Wireless keyboard/mouse – Eng/Ro/Ru layout<br>• Operating system: MS Windows 11 Pro 64-bit<br>**Warranty: minimum 2 years** | Set | 2 |
| 1.12 | **Monitor for Operator PC**<br>• Diagonal: minimum 27"<br>• Resolution: minimum Full HD (1080p) 1980x1080<br>• Response time: ≤ 2 ms (gray-to-gray)<br>• Eye protection function<br>• Ports: 2 x HDMI or DP 1.2<br>• Suitable for continuous 24/7 operation<br>**Warranty: minimum 2 years** | Pcs. | 4 |
| **2.** | **VIDEO WALL** | | |
| 2.1 | **LCD display**<br>• 49-55-inch screen size | Pcs. | 4 |

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|---|---|---|---|---|
| | • LED backlight<br>• 1.2-2.5 mm bezel width<br>• 1920x1980@60 Hz resolution<br>• 178° viewing angle<br>• 8 ms. or better maximum response time<br>• HDMI x1, DVI x1, VGA x1, DP x 1, USB x1 inputs<br>• HDMI x1 or DP x1 video output<br>• VESA<br>• Cables for Video Wall<br>**Warranty: minimum 2 years** | | | |
| 2.2 | Display modular bracket for video wall LCDs, VESA compatible | Pcs. | 4 | |
| 2.3 | **Video wall controller**<br>• Multiple signal sources support (VGA, DVI, HDMI, DP, etc.)<br>• Up to 3840 × 2160@30 Hz resolution for HDMI and DP signal inputs<br>• Decoding: H.264 and H.265 compression standard to display 2-ch@8.0 MP, 2-ch@6.0 MP, 2-ch@5.0 MP, 8-ch@1080p, 16-ch@720p and 32-ch@D1 signals<br>• Lossless output of 60 frames<br>• Compatible with wireless projection<br>• Adjustable LED background color<br>• 1/4/9/16 window division modes support and full-screen switch of the window<br>• Minimum 20 board slots (10 x Input, 10 x Output).<br>**Warranty: minimum 2 years** | Pcs. | 1 | |
| 2.4 | HDMI input board: 2 HDMI interfaces | Pcs. | 1 | |
| 2.5 | **Video output board**<br>4 x DVI interface<br>**Warranty: minimum 2 years** | Pcs. | 1 | |
| 2.6 | Software for Video Wall | Set | 1 | |
| **3.** | **OUTDOOR VIDEO MONITORING SYSTEM** | | | |
| 3.1 | **Distribution cabinet**<br>• 800x600x300 with padlock<br>• IP65+fixing elements<br>• Thermostat<br>• Built-in fan<br>• Key | Pcs. | 16 | |
| 3.2 | **Battery 12V 17A**<br>**Warranty: minimum 2 years** | Pcs. | 32 | |
| 3.3 | **Backup power supply 48V**<br>• 4A (max 5,5A);<br>• 17Ah battery capacity (4pcs)<br>• Protection against overvoltage, short circuit, battery polarity reversal<br>• RS-485 interface<br>**Warranty: minimum 2 years** | Pcs. | 16 | |
| 3.4 | **4 Port Switch:**<br>• Minimum 4x 100/1000 Mbps PoE-out ports<br>• Minimum 1x 10 Gbps SFP+ port | Pcs. | 8 | |

| | | | |
|---|---|---|---|
| | • Working temperatures -30 / +65 °C<br>• High resistance metal housing<br>• Protection up to 6KV<br>**Warranty: minimum 2 years** | | |
| 3.5 | **8 Port Switch:**<br>• Minimum 8x 100/1000 Mbps PoE-out ports<br>• Minimum 1x 10 Gbps SFP+ port<br>• Working temperatures -30 / +65 °C<br>• High resistance metal housing<br>• Protection up to 6KV<br>**Warranty: minimum 2 years** | Pcs. | 8 |
| 3.6 | **IP outdoor video camera:**<br>• 1/2.8" Progressive Scan CMOS<br>• Color: 0.005 Lux@ (F1.6, AGC ON),<br>• 8MP, lens 2.8, 4,6mm<br>• IR =60m<br>• H.265+/H.265/H.264+/H.264<br>• Working temperature: -30°C to 60 °C<br>• PoE (802.3af)<br>• CCTV cyber security built-in<br>• IP67<br>• Compatible with INVIPO Smart City Platform (data transmission documented API via HTTP(S))<br>  - Network access to each camera separately (e.g., using communication with the parent video server but keeping format requirements valid)<br>• API endpoints:<br>  - Static image (jpeg format), i.e. http://{ip_address}:{port}/ISAPI/Streaming/channels/1/picture<br>  - Video stream (mjpeg format), i.e. http://{ip_address}:{port}/ISAPI/Streaming/channels/2/httpPreview<br>**Warranty: minimum 2 years** | Pcs. | 58 |
| 3.7 | Junction box for outdoor cameras | Pcs. | 58 |
| 3.8 | ODF Panel, Cross FO for cabinet | Pcs. | 16 |
| 3.9 | Mounting (distribution) box 100x100mm | Pcs. | 7 |
| | **Supplies:** | | |
| - | **Fasteners, connectors, cable, other elements according to the Technical Project** | | |
| | **Other services:** | | |
| - | **Full video monitoring system installation, commissioning, and training of the Police Inspectorate Operators and of the IT specialists from the Cahul Mayoralty, responsible for managing the Smart City Platform will be ensured by the Offeror.** | | |
| - | **Offeror will ensure technical support and maintenance of the video monitoring system 12 (twelve) months after commissioning of the system.** | | |

**Delivery Requirements**

| Delivery Requirements | |
|---|---|
| **Delivery date and time** | Bidder shall deliver and install the goods within up to 90 days after Contract signature. |
| **Delivery Terms (INCOTERMS 2020)** | **LOT 1: DDP 1** - Ungheni Mayoralty<br>**LOT 2: DDP 2** - Cahul mayoralty |
| **Customs clearance (must be linked to INCOTERM** | Shall be done by:<br>☒ Supplier/bidder |
| **Exact Address(es) of Delivery Location(s)** | **LOT 1: DDP 1** Ungheni Mayoralty, mun. Ungheni, str. Nationala 7, MD-3600, Republic of Moldova.<br>**LOT 2: DDP 2** - Cahul mayoralty, mun. Cahul, Piata Independentei 6, MD-3090, Republic of Moldova. |
| **Training on Operations and Maintenance** | Yes, at least 24 working hours training per LOT 1 and 24 working hours for LOT 2 |
| **Warranty Period** | 24 months/ 36 months, according to the technical specifications |
| **After-sales service and local service support requirements** | **Technical support and maintenance of the system during 12 (twelve) months after commissioning of the video monitoring system** |

## ANNEX 2: QUOTATION SUBMISSION FORM

*Bidders are requested to complete this form, including the Company Profile and Bidder's Declaration, sign it and return it as part of their quotation along with Annex 3: Technical and Financial Offer. The Bidder shall fill in this form in accordance with the instructions indicated. No alterations to its format shall be permitted and no substitutions shall be accepted.*

| | | |
|---|---|---|
| Name of Bidder: | Click or tap here to enter text. | |
| RFQ reference: | RfQ 23 / 02771 | Date: Click or tap to enter a date. |

## Company Profile

| Item Description | Detail |
|---|---|
| Legal name of bidder or Lead entity for JVs | Click or tap here to enter text. |
| Legal Address, City, Country | Click or tap here to enter text. |
| Website | Click or tap here to enter text. |
| Year of Registration | Click or tap here to enter text. |
| Legal structure | Choose an item. |
| Are you a UNGM registered vendor? | ☐ Yes ☐ No                                                                          If yes, insert UNGM Vendor Number |
| Quality Assurance Certification (e.g. ISO 9000 or Equivalent) *(If yes, provide a Copy of the valid Certificate):* | ☐ Yes ☐ No |
| Does your Company hold any accreditation such as ISO 14001 or ISO 14064 or equivalent related to the environment? *(If yes, provide a Copy of the valid Certificate):* | ☐ Yes ☐ No |
| Does your Company have a written Statement of its Environmental Policy? *(If yes, provide a Copy)* | ☐ Yes ☐ No |
| Does your organization demonstrate significant commitment to sustainability through some other means, | ☐ Yes ☐ No |

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| for example internal company policy documents on women empowerment, renewable energies or membership of trade institutions promoting such issues *(If yes, provide a Copy)* | |
| Is your company a member of the UN Global Compact | ☐ Yes ☐ No |
| Bank Information | Bank Name: Click or tap here to enter text.<br><br>Bank Address: Click or tap here to enter text.<br><br>IBAN: Click or tap here to enter text.<br><br>SWIFT/BIC: Click or tap here to enter text.<br><br>Account Currency: Click or tap here to enter text.<br><br>Bank Account Number: Click or tap here to enter text. |

| Previous relevant experience: 2 contracts (in terms of type and volume of goods/works/services) contracts undertaken in the past 3 (three) years | | | | |
|---|---|---|---|---|
| **Name of previous contracts** | **Client & Reference Contact Details including e-mail** | **Contract Value** *(insert currency)* | **Period of activity** *(month, year)* | **Types of activities undertaken** |
| | | | | |
| | | | | |
| | | | | |

**Bidder's Declaration**

| Yes | No | |
|---|---|---|
| ☐ | ☐ | **Requirements and Terms and Conditions:** I/We have read and fully understand the RFQ, including the RFQ Information and Data, Schedule of Requirements, the General Conditions of Contract, and any Special Conditions of Contract. I/we confirm that the Bidder agrees to be bound by them. |
| ☐ | ☐ | I/We confirm that the Bidder has the necessary capacity, capability, and necessary licenses to fully meet or exceed the Requirements and will be available to deliver throughout the relevant Contract period. |
| ☐ | ☐ | **Ethics**: In submitting this Quote I/we warrant that the bidder: has not entered into any improper, illegal, collusive or anti-competitive arrangements with any Competitor; has not directly or indirectly approached any representative of the Buyer (other than the Point of Contact) to lobby or solicit information in relation to the RFQ ;has not attempted to influence, or provide any form of personal inducement, reward or benefit to any representative of the Buyer. |

| Yes | No | |
|:---:|:---:|---|
| ☐ | ☐ | I/We confirm to undertake not to engage in proscribed practices, , or any other unethical practice, with the UN or any other party, and to conduct business in a manner that averts any financial, operational, reputational or other undue risk to the UN and we have read the United Nations Supplier Code of Conduct :https://www.un.org/Depts/ptd/about-us/un-supplier-code-conduct and acknowledge that it provides the minimum standards expected of suppliers to the UN. |
| ☐ | ☐ | **Conflict of interest:** I/We warrant that the bidder has no actual, potential, or perceived Conflict of Interest in submitting this Quote or entering a Contract to deliver the Requirements. Where a Conflict of Interest arises during the RFQ process the bidder will report it immediately to the Procuring Organisation's Point of Contact. |
| ☐ | ☐ | **Prohibitions and Sanctions:** I/We hereby declare that our firm, ultimate beneficial owners, affiliates or subsidiaries or employees, including any JV/Consortium members or subcontractors or suppliers for any part of the contract is not under procurement prohibition by the United Nations, including but not limited to prohibitions derived from the Compendium of United Nations Security Council Sanctions Lists and have not been suspended, debarred, sanctioned or otherwise identified as ineligible by any UN Organization or the World Bank Group or any other international Organization. |
| ☐ | ☐ | **Bankruptcy**: I/We have not declared bankruptcy, are not involved in bankruptcy or receivership proceedings, and there is no judgment or pending legal action against them that could impair their operations in the foreseeable future. |
| ☐ | ☐ | **Offer Validity Period:** I/We confirm that this Quote, including the price, remains open for acceptance for the Offer Validity. |
| ☐ | ☐ | I/We understand and recognize that you are not bound to accept any Quotation you receive, and we certify that the goods offered in our Quotation are new and unused. |
| ☐ | ☐ | By signing this declaration, the signatory below represents, warrants and agrees that he/she has been authorised by the Organization/s to make this declaration on its/their behalf. |

Signature: _____

Name:     Click or tap here to enter text.

Title:     Click or tap here to enter text.

Date:     Click or tap to enter a date.

**ANNEX 3: TECHNICAL AND FINANCIAL OFFER – GOODS**

<span style="color:#2E74B5">**LOT1: UNGHENI MAYORALTY**</span>

*Bidders are requested to complete this form, sign it and return it as part of their bid along with Annex 2: Quotation Submission Form. The Bidder shall fill in this form in accordance with the instructions indicated. No alterations to its format shall be permitted and no substitutions shall be accepted.*

| Name of Bidder: | Click or tap here to enter text. | |
|---|---|---|
| RFQ reference: | RfQ 23 / 02771 | Date: Click or tap to enter a date. |

| Currency of the Quotation: USD<br><br>INCOTERMS: DDP Ungheni | | | | | |
|---|---|---|---|---|---|
| **Item No** | **Description** | **UOM** | **Qty** | **Unit price** | **Total price** |
| **1.** | **VIDEO MONITORING CENTER** | | | | |
| 1.1 | Video storage server | Pcs. | 1 | | |
| 1.2 | High-Performance Surveillance HDD | Pcs. | 16 | | |
| 1.3 | Video Management System Server | Pcs. | 1 | | |
| 1.4 | Software + licenses (for 52 video surveillance cameras). | Set | 1 | | |
| 1.5 | Uninterruptible power supply | Pcs. | 1 | | |
| 1.6 | Power Distribution Unit | Pcs. | 1 | | |
| **2.** | **VIDEOWALL** | | | | |
| 2.1 | LCD Monitor 49"-55" (16:9) | Pcs. | 4 | | |
| 2.2 | HDMI Cable DP to HDMI or HDMI to HDMI 10.0m | Pcs. | 4 | | |
| 2.3 | Wall Mount for 55" Flat Screen/LED/4K Monitor, VESA compatible | Pcs. | 4 | | |
| 2.4 | Computer for Operator | Pcs. | 2 | | |
| 2.5 | Monitor for Operator' PC | Pcs. | 2 | | |
| 2.6 | Uninterruptible power supply | Pcs. | 2 | | |
| 2.7 | Software for video wall | Set | 1 | | |
| 2.8 | Video wall controller | Pcs | 1 | | |
| **3** | **OUTDOOR VIDEO MONITORING SYSTEM** | | | | |
| 3.1 | IP Camera (type 1) | Pcs. | 36 | | |
| 3.2 | IP Camera (type 2 – bullet camera) | Pcs. | 16 | | |
| 3.3 | 24 Port Gigabit Switch | Pcs. | 2 | | |
| 3.4 | 6-Port Cloud Managed Switch with 4-port PoE | Pcs. | 36 | | |
| 3.5 | Micro SD Memory Card | Pcs. | 52 | | |
| 3.6 | PoE Extender | Pcs. | 36 | | |
| 3.7 | 5GHz Outdoor Wireless Base Station | Pcs. | 4 | | |
| 3.8 | 5GHz Outdoor Wireless CPE | Pcs. | 36 | | |
| 3.9 | Telecommunications rack | Pcs. | 1 | | |
| 3.10 | Distribution box | Pcs. | 16 | | |
| 3.11 | Fasteners, connectors, cables, other elements according to the Technical Project. | Set | 1 | | |
| 3.12 | Full video monitoring system installation, commissioning, and training of the Police Inspectorate Operators and of the IT specialists from the Ungheni Mayoralty, responsible | Set | 1 | | |

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|---|---|---|---|---|---|
| | for managing the Smart City Platform will be ensured by the Offeror. | | | | |
| 3.13 | Offeror will ensure technical support and maintenance of the video monitoring system during 12 (twelve) months after commissioning of the system. | Month | 12 | | |
| | Total Price | | | | |
| | Transportation Price | | | | |
| | Insurance Price | | | | |
| | Installation Price | | | | |
| | Training Price | | | | |
| | Other Charges (specify) | | | | |
| | **Total Final and All-inclusive Price** | | | | |

**Compliance with Requirements**

| | You Responses | | |
|---|---|---|---|
| | Yes, we will comply | No, we cannot comply | If you cannot comply, pls. indicate counter - offer |
| Minimum Technical Specifications | ☐ | ☐ | Click or tap here to enter text. |
| Delivery Term (INCOTERMS) | ☐ | ☐ | Click or tap here to enter text. |
| Delivery to location | | | |
| Delivery Lead Time | ☐ | ☐ | Click or tap here to enter text. |
| Warranty and After-Sales Requirements | ☐ | ☐ | Click or tap here to enter text. |
| Validity of Quotation | ☐ | ☐ | Click or tap here to enter text. |
| Payment terms: within 30 days after receipt of goods, works and/or services and submission of payment documentation. | ☐ | ☐ | Click or tap here to enter text. |

**Other Information:**

| | |
|---|---|
| Estimated weight/volume/dimension of the Consignment: | Click or tap here to enter text. |
| Country/ies of Origin: (*if export licence required this must be submitted if awarded the contract*) | Click or tap here to enter text. |

| | |
|---|---|
| I, the undersigned, certify that I am duly authorized to sign this quotation and bind the company below in event that the quotation is accepted. | |
| *Exact name and address of company*<br><br>Company NameClick or tap here to enter text.<br><br>Address: Click or tap here to enter text. | Authorized Signature: _____<br><br>_____<br>Date: Click or tap here to enter text. |

| Phone No.: Click or tap here to enter text. | Name: Click or tap here to enter text. |
|---|---|
| Email Address:   Click or tap here to enter text. | Functional Title of Authorised Signatory: Click or tap here to enter text. |
| | Email Address: Click or tap here to enter text. |

# ANNEX 3: TECHNICAL AND FINANCIAL OFFER – GOODS

## LOT2: CAHUL MAYORALTY

*Bidders are requested to complete this form, sign it and return it as part of their bid along with Annex 2: Quotation Submission Form. The Bidder shall fill in this form in accordance with the instructions indicated. No alterations to its format shall be permitted and no substitutions shall be accepted.*

| Name of Bidder: | Click or tap here to enter text. | |
|---|---|---|
| RFQ reference: | RfQ 23 / 02771 | Date: Click or tap to enter a date. |

| Currency of the Quotation: USD |||||||
|---|---|---|---|---|---|---|
| **INCOTERMS: DDP Cahul** |||||||
| Item No | Description | UOM | Qty | Unit price | Total price |
| **1.** | **VIDEO MONITORING CENTRE. ACTIVE EQUIPMENT** | | | | |
| 1.1 | Telecommunications rack, 19-inch | Set | 1 | | |
| 1.2 | Core Switch | Pcs. | 1 | | |
| 1.3 | Main Router | Pcs. | 1 | | |
| 1.4 | Network Video Recorder | Pcs. | 1 | | |
| 1.5 | UPS 2200VA | Pcs. | 1 | | |
| 1.6 | High-Performance Surveillance HDD: | Pcs. | 10 | | |
| 1.7 | Power Distribution Unit | Pcs. | 1 | | |
| 1.8 | Software + licenses (for 58 video surveillance cameras). | Set | 1 | | |
| 1.9 | 1Gbps transceiver, compatible with Core Switch and other switches, including SFP various modules. | Pcs. | 40 | | |
| 1.10 | ODF Panel, Cross FO for TS 19" 24 ports Cabinet 1 or 2U for rack 19" | Pcs. | 1 | | |
| 1.11 | Computer for Operator | Set | 2 | | |
| 1.12 | Monitor for Operator PC | Pcs. | 4 | | |
| **2.** | **VIDEO WALL** | | | | |
| 2.1 | LCD display | Pcs. | 4 | | |
| 2.2 | Display modular bracket for video wall LCDs, VESA compatible | Pcs. | 4 | | |
| 2.3 | Video wall controller | Pcs. | 1 | | |
| 2.4 | HDMI input board: 2 HDMI interfaces | Pcs. | 1 | | |
| 2.5 | Video output board | Pcs. | 1 | | |
| 2.6 | Software for Video Wall | Set | 1 | | |
| **3.** | **OUTDOOR VIDEO MONITORING SYSTEM** | | | | |
| 3.1 | Distribution cabinet | Pcs. | 16 | | |
| 3.2 | Battery 12V 17A | Pcs. | 32 | | |
| 3.3 | Backup power supply 48V | Pcs. | 16 | | |
| 3.4 | 4 Port Switch | Pcs. | 8 | | |
| 3.5 | 8 Port Switch | Pcs. | 8 | | |
| 3.6 | IP outdoor video camera | Pcs. | 58 | | |
| 3.7 | Junction box for outdoor cameras | Pcs. | 58 | | |
| 3.8 | ODF Panel, Cross FO for cabinet | Pcs. | 16 | | |

| 3.9 | Mounting (distribution) box 100x100mm | Pcs. | 7 | | |
|---|---|---|---|---|---|
| 3.10 | **Fasteners, connectors, cable, other elements according to the Technical Project.** | Set | 1 | | |
| 3.11 | **Full video monitoring system installation, commissioning, and training of the Police Inspectorate Operators and of the IT specialists from the Cahul Mayoralty, responsible for managing the Smart City Platform will be ensured by the Offeror.** | Set | 1 | | |
| 3.12 | **Offeror will ensure technical support and maintenance of the video monitoring system 12 (twelve) months after commissioning of the system.** | Month | 12 | | |
| | | | Total Price | | |
| | | | Transportation Price | | |
| | | | Insurance Price | | |
| | | | Installation Price | | |
| | | | Training Price | | |
| | | | Other Charges (specify) | | |

**Compliance with Requirements**

| | You Responses | | |
|---|---|---|---|
| | **Yes, we will comply** | **No, we cannot comply** | **If you cannot comply, pls. indicate counter - offer** |
| Minimum Technical Specifications | ☐ | ☐ | Click or tap here to enter text. |
| Delivery Term (INCOTERMS) | ☐ | ☐ | Click or tap here to enter text. |
| Delivery to location | | | |
| Delivery Lead Time | ☐ | ☐ | Click or tap here to enter text. |
| Warranty Sand After-Sales Requirements | ☐ | ☐ | Click or tap here to enter text. |
| Validity of Quotation | ☐ | ☐ | Click or tap here to enter text. |
| Payment terms: within 30 days after receipt of goods, works and/or services and submission of payment documentation. | ☐ | ☐ | Click or tap here to enter text. |

**Other Information:**

| Estimated weight/volume/dimension of the Consignment: | Click or tap here to enter text. |
|---|---|
| Country/ies of Origin: (*if export licence required this must be submitted if awarded the contract*) | Click or tap here to enter text. |

| I, the undersigned, certify that I am duly authorized to sign this quotation and bind the company below in event that the quotation is accepted. | |
|---|---|
| *Exact name and address of company*<br><br>Company NameClick or tap here to enter text. | Authorized Signature: _____<br><br>_____<br>Date: Click or tap here to enter text. |

| Address: Click or tap here to enter text. | Name: Click or tap here to enter text. |
|---|---|
| Phone No.: Click or tap here to enter text. | Functional Title of Authorised Signatory: Click or tap here to enter text. |
| Email Address:   Click or tap here to enter text. | Email Address: Click or tap here to enter text. |

**ANNEX 4: TECHNICAL RESPONSIVENESS TABLE**

**LOT1: UNGHENI MAYORALTY**

*Bidders are requested to complete this form, sign it and return it as part of their bid along with Annex 2: Quotation Submission Form and Annex 3: Technical and Financial Offer. The Bidder shall fill in this form in accordance with the instructions indicated. No alterations to its format shall be permitted and no substitutions shall be accepted.*

| Name of Bidder: | Click or tap here to enter text. | |
|---|---|---|
| RFQ reference: | RfQ 23 / 02771 | Date: Click or tap to enter a date. |

Bidders shall supplement the information provided in the tables below with detailed description of the offered goods, including design and Technical Data Sheets (including photos).

| # | Technical requirements (Features at least) | Conformity (Yes/No) | Offered Brand, Model and Exact characteristics *(Technical characteristics should not be less/worse than those listed in Annex 1: Schedule of Requirements)* |
|---|---|---|---|
| **1.** | **VIDEO MONITORING CENTER** | | |
| 1.1 | **Video storage server** <br> • Web User Interface <br> • HDD Slot: min. 16 HDDs <br> • Capacity for each HDD: 10TB or more <br> • Video performance: min. 320-channel <br> • HDD Support: single, RAID (Entreprise Hard Disk) <br> • RAID support (RAID 0, 1, 5, 6, 10, 50,60, JBOD, hotspare) <br> • Support iSCSI volume management <br> • Network: 2 RJ-45 ports (10/100/1000Mbps), ONVIF <br> • Auxiliary interface: USB 2.0, USB 3.0, Com port (RS232), miniSAS port <br> • Power Supply: AC100V-240V <br> • Record Mode: Manual, Continuous, Motion Detection, Alarm <br> • Compatible with INVIPO Smart City Platform (data transmission documented API via HTTP(S)) <br> • Network access to each camera separately (e.g., using communication with the parent video server but keeping format requirements valid) <br> • API endpoints: <br>   - Static image (jpeg format), i.e. http://{ip_address}:{port}/ISAPI/Streaming/channels/1/picture | | |

| | | | |
|---|---|---|---|
| | - Video stream (mjpeg format), i.e. http://{ip_address}:{port}/ISAPI/Streaming/channels/2/httpPreview<br>**Warranty: minimum 2 years** | | |
| 1.2 | **High-Performance Surveillance HDD**:<br>• Hard drive – Internal 3.5"<br>• Capacity: 10TB<br>• Interface: SATAIII 6Gb/s<br>• Rotational Vibration Sensors: Yes<br>• Internal Data Rate: 180Mb/s<br>• Drive Transfer Data: 600MB/s (external)<br>• Cache: 256Mb<br>• Supports up to 180 TB/yr workload rate<br>• **Compatible with Video storage server in pt. 1.1.**<br>**Warranty: minimum 2 years** | | |
| 1.3 | **Video Management System Server**<br>• Main Processor: 64-bit 4 core CPU<br>• Operating System: Linux<br>• Memory: min. 8GB<br>• Network Ports: 4 Ethernet Ports (10/100/1000Mbps)<br>• USB Port: 4 × USB 3.0, 2 HDMI, 1 VGA<br>• HDD Storage<br>• For System: Built-in 1× 1T HDD disk (2.5")<br>• For Video & Pictures: Support for 3 HDD disks (2.5")<br>• Video Management<br>• Video: min. 256 Channels<br>• Facial Recognition: 32 Channels<br>• Installation Method: Standard 19" rack installation<br>• Compatible with INVIPO Smart City Platform (data transmission documented API via HTTP(S))<br>• Network access to each camera separately (e.g., using communication with the parent video server but keeping format requirements valid)<br>• API endpoints:<br>　- Static image (jpeg format), i.e. http://{ip_address}:{port}/ISAPI/Streaming/channels/1/picture<br>　- Video stream (mjpeg format), i.e. http://{ip_address}:{port}/ISAPI/Streaming/channels/2/httpPreview<br>**Warranty: minimum 3 years** | | |
| 1.4 | **Software + licenses** (for 52 video surveillance cameras)<br>Software has to be able to provide event analytics, vehicle detection by category, face detection/crowd detection, stored information analytics, etc. | | |
| 1.5 | **Uninterruptible power supply**<br>• UPS transformer type: Linear-interactive<br>• Number of connectors: 4<br>• Output connector types: Schuko CEE 7/4<br>• Output power capacity: 1600 VA | | |

| | | | |
|---|---|---|---|
| | • Maximum Load: 900 W<br>• Output Voltage: 230<br>• VInput Voltage: 110~240 VAC<br>**Warranty: minimum 2 years** | | |
| 1.6 | **Power Distribution Unit**<br>• 16A, 200-240V, 50/60Hz<br>• 8 sockets Schuko CEE 7/3, min. 2m cable length<br>**Warranty: minimum 2 years** | | |
| **2.** | **VIDEO WALL** | | |
| 2.1 | **LCD Monitor 49"-55" (16:9)**<br>• Resolution: 4K UHD (3840 x 2160)<br>• Response Time: ≤ 5 ms.<br>• Backlight: LED<br>• Inputs: HDMI, VGA(D-Sub), USB, Audio, Ethernet<br>• Viewing Angle: 178°/178° (horizontal/vertical)<br>• Mounting Options: VESA<br>• Brightness/Luminance: 350 cd/m$^2$<br>• Contrast Ratio: 1200:1<br>• Certifications: CE/FCC<br>• Power Supply: AC100~240V 50/60 Hz<br>• Suitable for continuous 24/7 operation<br>**Warranty: minimum 2 years** | | |
| 2.2 | HDMI Cable DP to HDMI or HDMI to HDMI 10.0m | | |
| 2.3 | Wall Mount for 55" Flat Screen/LED/4K Monitor, VESA compatible | | |
| 2.4 | **Computer for Operator**<br>• Processor: min 14 total cores, performance-core base frequency 2.5-4.8 GHz or similar, production - no earlier than Q1 2023.<br>• Motherboard:  ATX form factor, support: Slot M2 PCIe Gen4 x4 (64 Gb/s), RAID( 0,1,5,10), min 4x DIMM memory slots, USB Type-C, HDMI port, Cooler with min 66CFM, 120mm, 220W, 600g<br>• RAM: 32GB DDR5 5600MHZ, SSD: 1TB NVMe 3DTLC PCIe 4.0x4 R/W: 7000/5100MB/s<br>• Video card: memory – min 4 GB DDR6, min. 1 DP, 1HDMI output ports.<br>• Network interface: 1 x 2.5 Gbps RJ-45.<br>• Power supply source: min 700W, 80+ Gold certification, semi-modular or fully modular<br>• PC Case Fan 120x120  min 66CFM<br>• Case ATX, USB 3.0<br>• Wireless keyboard/mouse – Eng/Ro/Ru layout.<br>• Operating system: MS Windows 11 Pro 64-bit.<br>• **Warranty: minimum 2 years.** | | |
| 2.5 | **Monitor for Operator' PC**<br>• Minimum 27" | | |

| | | | |
|---|---|---|---|
| | <ul><li>Brightness/Luminance: 350 cd/m$^2$, Viewing angle: 178°/178° (horizontal/vertical). Screen resolution: 2560x1440.</li><li>Response Time: ≤ 5 Ms.</li><li>Eye protection functions.</li><li>Interfaces: HDMI, VGA.</li><li>Certifications: CE/FCC</li><li>Power Supply: AC100~240V 50/60 Hz.</li><li>Suitable for continuous 24/7 operation.</li></ul>**Warranty: minimum 2 years.** | | |
| 2.6 | **Uninterruptible power supply**<ul><li>UPS transformer type: Linear-interactive</li><li>Output power capacity : 800 VA</li><li>Maximum load : 480 W</li><li>Input voltage : 170~280 VAC</li><li>Number of connectors : 2 Sockets</li><li>Output connector types: Schuko CEE 7/3</li></ul> | | |
| 2.7 | Software for video wall | | |
| 2.8 | **Video wall controller**<ul><li>Multiple signal sources support (VGA, DVI, HDMI, DP, etc.)</li><li>Up to 3840 × 2160@30 Hz resolution for HDMI and DP signal inputs</li><li>Decoding: H.264 and H.265 compression standard to display 2-ch@8.0 MP, 2-ch@6.0 MP, 2-ch@5.0 MP, 8-ch@1080p, 16-ch@720p and 32-ch@D1 signals</li><li>Lossless output of 60 frames</li><li>Compatible with wireless projection</li><li>Adjustable LED background color</li><li>1/4/9/16 window division modes support and full-screen switch of the window</li><li>Minimum 20 board slots (10 x Input, 10 x Output)</li></ul>**Warranty: minimum 2 years** | | |
| **3.** | **OUTDOOR VIDEO MONITORING SYSTEM** | | |
| 3.1 | **IP Camera** (type 1)<ul><li>Camera type: motorized IP PTZ camera</li><li>Sensor: CMOS 4 Mp, Size: 1/2.8"</li><li>Outdoor PTZ (Pan-Tilt-Zoom) Features: Pan (Rotation): 360° continuous rotation, Tilt (Inclination): Up to 90°</li><li>Focal Length: 4.8 mm to 120 mm</li><li>Video Compression: H.265+/H.265/H.264+/H.264</li><li>IR distance up to 100 m or more.</li><li>Zoom: 25x optical, 16x digital zoom</li><li>Micro SD Card Slot: supports 256GB or more</li><li>Protection: IP66 Standard or higher</li><li>CCTV cyber security built-in</li><li>Day/Night Switch: day, night, auto</li></ul> | | |

| | | | | |
|---|---|---|---|---|
| | • Surge Protection and Voltage Transient Protection<br>• Support PoE+<br>• Ethernet: RJ-45 (10/100Base-T).<br>• Working temperature: - 40°C / +65°C<br>• Lightning protection: TVS 6000 V<br>• Conformité Européenne (CE) certification<br>• All mounting materials must be included<br>• Compatible with INVIPO Smart City Platform (data transmission documented API via HTTP(S))<br>• Network access to each camera separately (e.g., using communication with the parent video server but keeping format requirements valid)<br>• API endpoints:<br>  - Static image ( jpeg format), i.e. http://{ip_address}:{port}/ISAPI/Streaming/channels/1/picture<br>  - Video stream (mjpeg format), i.e. http://{ip_address}:{port}/ISAPI/Streaming/channels/2/httpPreview<br>**Warranty: minimum 3 years.** | | |
| 3.2 | **IP Camera** (type 2 – bullet camera)<br>• Sensor: Type: CMOS 4 Mp, Size: 1/3"<br>• Focal Length: 2.8 – 6 mm or more<br>• Video Compression: H.265+/H.265/H.264+/H.264, MJPEG<br>• IR distance up to 50 m or more<br>• Iris Type: Fixed focal<br>• Zoom: 16x digital zoom<br>• Resolution: up to 2688x1520<br>• MicroSD Card Slot: supports up to 256GB or more<br>• Day/Night : Auto(ICR)/Color/B/W<br>• Protection: IP67<br>• CCTV cyber security built-in<br>• Day/Night Switch: color/B/W/ auto/<br>• Surge Protection and Voltage Transient Protection<br>• Power Supply: 12Vdc, Poe<br>• Built-in MIC: Yes<br>• Ethernet: RJ-45 (10/100Base-T)<br>• Intelligent detection: Yes<br>• BLC, HLC, 3D DNR<br>• Working Environment: -30°C to +60°C<br>• Casing Metal<br>• Compatible with INVIPO Smart City Platform (data transmission documented API via HTTP(S))<br>• Network access to each camera separately (e.g., using communication with the parent video server but keeping format requirements valid)<br>• API endpoints:<br>  - Static image (jpeg format), i.e. http://{ip_address}:{port}/ISAPI/Streaming/channels/1/picture | | |

| | | - Video stream (mjpeg format), i.e. http://{ip_address}:{port}/ISAPI/Streaming/channels/2/httpPreview<br>**Warranty: minimum 3 years.** | | |
|---|---|---|---|---|
| 3.3 | | **24 Port Gigabit Switch**<br>• Ethernet Ports: 24 x 10/100/1000 Mbps RJ-45<br>• Switching Capacity: 48Gbps<br>• Packet Forwarding Rate: 35.7 Mpps<br>• MAC Address Table: 8K<br>• Durable metal construction<br>• Lightning protection<br>• Packet Buffer Memory: 2MB<br>• Power: AC: 100-240V; 50/60Hz<br>• Operating Temperature: Typically, 0°C to 40°C<br>• Cooling: Passive cooling design, possibly supplemented with quiet fans<br>• Communication Standard: Compliant with IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.3ab, IEEE 802.3az<br>**Warranty: minimum 2 years.** | | |
| 3.4 | | **6-Port Cloud Managed Switch with 4-port PoE**<br>• Ethernet Port up to 250 m long-distance power supply<br>• Ethernet Port: 4*10/100 Mbps PoE RJ45<br>• IEEE 802.3at/af/bt standard for PoE ports<br>• Operating Temperature –10 °C to +55 °C<br>• Storage Temperature –40 °C to +70 °C<br>• Switching Capacity min 1.6Gbps<br>• MAC Table Size min 2K<br>• PoE Protocol: Compliant with IEEE802.3af/at, Hi-PoE<br>• Certifications: CE; FCC<br>**Warranty: minimum 2 years** | | |
| 3.5 | | **Micro SD Memory Card**<br>• Capacity: min. 256GB<br>• Read Speed: Up to 95 MB/s<br>• Write Speed: Up to 40 MB/s<br>• Speed Rating: C10/U3/V30<br>• TBW: up to 50TB<br>• Endurance & Durability: Water-resistant, temperature-proof, shock-proof, X-ray proof, and magnetic-proof.<br>• File System: exFAT<br>**Warranty: minimum 2 years** | | |
| 3.6 | | **PoE Extender**<br>• Supports passive PoE cascade power supply and Ethernet data exchange<br>• Compliant with the IEEE 802.3af/at standard for powering IP cameras<br>• Transmission Distance: transmission distance up to 300m<br>• Ports: 1x RJ45 10/100M for PoE power supply input | | |

| | | | |
|---|---|---|---|
| | • 1x RJ45 10/100M to power the IP camera<br>• 1x RJ45 10/100M to power the next extender<br>• Cooperate with High PoE Midspan, able to cascade level 2 PoE Extender, connect to 3 IPC<br>• Internal junction box mounting<br>• Certification: CE, FCC<br>**Warranty: minimum 2 years** | | |
| 3.7 | **5GHz Outdoor Wireless Base Station**<br>• WLAN Standard: IEEE802.11 a/n<br>• Radio Mode: MIMO 2x2<br>• Transmit Power: Up to 29 dBm<br>• Wireless N speed up to 300Mbps<br>• Channel Size: 5,10, 20, 40 MHz<br>• Transmission Distance: Up to 5 km<br>• Interface: 10/100 Base-T, RJ45<br>• Wireless Operating Modes (Access point (auto WDS), access point (TDMA2), access point (TDMA3), station (WDS, TDMA2,TDMA3), station (ARP NAT))<br>• Network Operating Modes: Bridge, router iPv4, router IPv6<br>• Management: HTTP(S) GUI, SSH, SNMP read, Telnet<br>• Internal Antenna Frequency Range: 5.1 – 5.9 GHz<br>• Antenna Gain: 18 dBi<br>• Power Supply: 12 - 24 VDC passive PoE<br>• Power Source: 100 – 240V AC<br>• Operating Temperature: -30°C ~ +70°C<br>• Certification: CE, FCC<br>**Warranty: minimum 2 years** | | |
| 3.8 | **5GHz Outdoor Wireless CPE**<br>• WLAN Standard: IEEE802.11 a/n<br>• Radio Mode: MIMO 2x2<br>• Transmit Power: Up to 29 dBm<br>• Wireless N speed up to 300Mbps<br>• Channel Size: 5,10, 20, 40 MHz<br>• Transmission Distance: Up to 5 km<br>• Interface: 10/100 Base-T, RJ45<br>• Wireless Operating Modes (Access point (auto WDS), access point (TDMA2), access point (TDMA3), station (WDS, TDMA2, TDMA3 ), station (ARP NAT))<br>• Network Operating Modes: Bridge, router iPv4, router IPv6<br>• Management: HTTP(S) GUI, SSH, SNMP read, Telnet<br>• Antenna Gain: 20 dBi<br>• Power Supply: 12 - 24 VDC passive PoE<br>• Power Source: 100 – 240V AC<br>• Operating Temperature: -30°C ~ +70°C<br>• Certification: CE, FCC<br>**Warranty: minimum 2 years** | | |

| | | | |
|---|---|---|---|
| 3.9 | **Telecommunications rack**<br>19-inch 42U 600x600 | | |
| 3.10 | **Distribution box**<br>Minimum protection IP66<br>Working temperature: - 40°C / +60°C. | | |
| | **Fasteners, connectors, cable, other elements according to the Technical Project** | | |
| | **Full video monitoring system installation, commissioning, and training of the Police Inspectorate Operators and of the IT specialists from the Cahul Mayoralty, responsible for managing the Smart City Platform will be ensured by the Offeror.** | | |
| | **Offeror will ensure technical support and maintenance of the video monitoring system 12 (twelve) months after commissioning of the system.** | | |

| | |
|---|---|
| I, the undersigned, certify that I am duly authorized to sign this quotation and bind the company below in event that the quotation is accepted. | |
| *Exact name and address of company*<br><br>Company NameClick or tap here to enter text.<br><br>Address: Click or tap here to enter text.<br><br><br>Phone No.: Click or tap here to enter text.<br><br><br>Email Address:  Click or tap here to enter text. | Authorized Signature: _____<br><br>_____<br><br>Date: Click or tap here to enter text.<br><br><br>Name: Click or tap here to enter text.<br><br><br>Functional Title of Authorised Signatory: Click or tap here to enter text.<br><br>Email Address: Click or tap here to enter text. |

# ANNEX 4: TECHNICAL RESPONSIVENESS TABLE

## LOT2: CAHUL MAYORALTY

*Bidders are requested to complete this form, sign it and return it as part of their bid along with Annex 2: Quotation Submission Form and Annex 3: Technical and Financial Offer. The Bidder shall fill in this form in accordance with the instructions indicated. No alterations to its format shall be permitted and no substitutions shall be accepted.*

| Name of Bidder: | Click or tap here to enter text. | |
|---|---|---|
| RFQ reference: | RfQ 23 / 02771 | Date: Click or tap to enter a date. |

Bidders shall supplement the information provided in the tables below with detailed description of the offered goods, including design and Technical Data Sheets (including photos).

| # | Technical requirements (Features at least) | Conformity (Yes/No) | Offered Brand, Model and Exact characteristics *(Technical characteristics should not be less/worse than those listed in Annex 1: Schedule of Requirements)* |
|---|---|---|---|
| **1.** | **VIDEO MONITORING CENTER. ACTIVE EQUIPMENT** | | |
| 1.1 | **Telecommunications rack, 19-inch** <br> • Dimensions 14Ux800x800 <br> • Tempered glass front door <br> • Metal rear door and removable sides, Fan included | | |
| 1.2 | **Core Switch** <br> • Form-factor: 1 or 2U for rack 19" <br> • Minimum 16x SFP+ 10Gbps ports <br> • Minimum 3x 100/1000MB ports RJ-45 <br> • Managed L2/L3 layer with VLAN support <br> • Other ports & supported technologies <br> **Warranty: minimum 2 years** | | |
| 1.3 | **Main Router** <br> • Form-factor: 1 or 2U for rack 19" <br> • Minimum 4x 100/1000MB ports RJ-45 <br> • Minimum 1x SFP+ 10Gbps port <br> • Mandatory protocols & technologies: <br>    – Managed switching & routing at L2/L3 with VLAN support <br>    – Managed firewall up to L7 with NAT/DNAT support <br>    – VPNs technologies & protocols: IPSec, L2TP <br> • Network management: DHCP relay <br> • Other ports, protocols & technologies are optional <br> **Warranty: minimum 2 years** | | |

| | | | |
|---|---|---|---|
| 1.4 | **Network Video Recorder**<br>• 64-ch IP Video Input<br>• Codecs: H.265+, H.265, H.264, MPEG4 Decoding<br>• Hard Disks:<br>• Support for up to 10 HDD SATA-III with RAID 0,1,5 (other RAID support are optional)<br>• 10x HDD 10Tb SATA-Ill<br>• Compatible with INVIPO Smart City Platform (data transmission documented API via HTTP(S))<br>• Network access to each camera separately (e.g., using communication with the parent video server but keeping format requirements valid)<br>• API endpoints:<br>  - Static image (jpeg format), i.e. http://{ip_address}:{port}/ISAPI/Streaming/channels/1/picture<br>  - Video stream (mjpeg format), i.e. http://{ip_address}:{port}/ISAPI/Streaming/channels/2/httpPreview<br>**Warranty: minimum 2 years** | | |
| 1.5 | **UPS 2200VA**<br>• 2U<br>• 19" rackmount<br>**Warranty: minimum 2 years** | | |
| 1.6 | **High-Performance Surveillance HDD**:<br>• Hard drive – Internal 3.5"<br>• Capacity: 10TB<br>• Interface: SATAIII 6Gb/s<br>• Rotational Vibration Sensors: Yes<br>• Internal Data Rate: 180Mb/s<br>• Drive Transfer Data: 600MB/s (external)<br>• Cache: 256Mb<br>• Supports up to 180 TB/yr workload rate<br>• **Compatible with Network Video Recorder included in pct. 1.4**<br>**Warranty: minimum 2 years** | | |
| 1.7 | **Power Distribution Unit**<br>• 16A<br>• 200-240V, 50/60Hz<br>• 8 sockets Single Phase<br>• Vertical mounting for rack 19", EU standard (1U)<br>**Warranty: minimum 2 years** | | |
| 1.8 | **Software + licenses** (for 58 video surveillance cameras).<br>Software has to be able to provide event analytics, vehicle detection by category, face detection/crowd detection, stored information analytics, etc. | | |

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| 1.9 | **Transceiver**<br>1Gbps transceiver, compatible with Core Switch and other switches, including SFP various modules | | |
| 1.10 | **ODF Panel, Cross FO for TS 19" 24 ports Cabinet 1 or 2U for rack 19"** | | |
| 1.11 | **Computer for Operator**<br>• Processor: x64 bit, 3GHz, min 12 cores<br>• RAM: 32GB DDR5<br>• SSD: 1TB NVMe PCIe 4.0<br>• Video card: memory – min 4 GB DDR5, 2 DP or HDMI output ports, simultaneous displays – min 2 with FullHD resolution<br>• Network interface – 1 x 1 Gbps RJ-45<br>• Wireless keyboard/mouse – Eng/Ro/Ru layout<br>• Operating system: MS Windows 11 Pro 64-bit<br>**Warranty: minimum 2 years** | | |
| 1.12 | **Monitor for Operator PC**<br>• Diagonal: minimum 27"<br>• Resolution: minimum Full HD (1080p) 1980x1080<br>• Response time: ≤ 2 ms (gray-to-gray)<br>• Eye protection function<br>• Ports: 2 x HDMI or DP 1.2<br>• Suitable for continuous 24/7 operation<br>**Warranty: minimum 2 years** | | |
| **2.** | **VIDEO WALL** | | |
| 2.1 | **LCD display**<br>• 49-55-inch screen size<br>• LED backlight<br>• 1.2-2.5 mm bezel width<br>• 1920x1980@60 Hz resolution<br>• 178° viewing angle<br>• 8 ms. or better maximum response time<br>• HDMI x1, DVI x1, VGA x1, DP x 1, USB x1 inputs<br>• HDMI x1 or DP x1 video output<br>• VESA<br>• Cables for Video Wall<br>**Warranty: minimum 2 years** | | |
| 2.2 | Display modular bracket for video wall LCDs, VESA compatible | | |
| 2.3 | **Video wall controller**<br>• Multiple signal sources support (VGA, DVI, HDMI, DP, etc.)<br>• Up to 3840 × 2160@30 Hz resolution for HDMI and DP signal inputs<br>• Decoding: H.264 and H.265 compression standard to display 2-ch@8.0 MP, 2-ch@6.0 MP, 2-ch@5.0 MP, 8-ch@1080p, 16-ch@720p and 32-ch@D1 signals<br>• Lossless output of 60 frames | | |

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| | • Compatible with wireless projection<br>• Adjustable LED background color<br>• 1/4/9/16 window division modes support and full-screen switch of the window<br>• Minimum 20 board slots (10 x Input, 10 x Output).<br>**Warranty: minimum 2 years** | | |
| 2.4 | HDMI input board: 2 HDMI interfaces | | |
| 2.5 | **Video output board**<br>4 x DVI interface<br>**Warranty: minimum 2 years** | | |
| 2.6 | Software for Video Wall | | |
| **3.** | **OUTDOOR VIDEO MONITORING SYSTEM** | | |
| 3.1 | **Distribution cabinet**<br>• 800x600x300 with padlock<br>• IP65+fixing elements<br>• Thermostat<br>• Built-in fan<br>• Key | | |
| 3.2 | **Battery 12V 17A**<br>**Warranty: minimum 2 years** | | |
| 3.3 | **Backup power supply 48V**<br>• 4A (max 5,5A);<br>• 17Ah battery capacity (4pcs)<br>• Protection against overvoltage, short circuit, battery polarity reversal<br>• RS-485 interface<br>**Warranty: minimum 2 years** | | |
| 3.4 | **4 Port Switch:**<br>• Minimum 4x 100/1000 Mbps PoE-out ports<br>• Minimum 1x 10 Gbps SFP+ port<br>• Working temperatures -30 / +65 °C<br>• High resistance metal housing<br>• Protection up to 6KV<br>**Warranty: minimum 2 years** | | |
| 3.5 | **8 Port Switch:**<br>• Minimum 8x 100/1000 Mbps PoE-out ports<br>• Minimum 1x 10 Gbps SFP+ port<br>• Working temperatures -30 / +65 °C<br>• High resistance metal housing<br>• Protection up to 6KV<br>**Warranty: minimum 2 years** | | |
| 3.6 | **IP outdoor video camera:**<br>• 1/2.8" Progressive Scan CMOS<br>• Color: 0.005 Lux@ (F1.6, AGC ON),<br>• 8MP, lens 2.8, 4,6mm<br>• IR =60m<br>• H.265+/H.265/H.264+/H.264 | | |

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| | • Working temperature: -30°C to 60 °C<br>• PoE (802.3af)<br>• CCTV cyber security built-in<br>• IP67<br>• Compatible with INVIPO Smart City Platform (data transmission documented API via HTTP(S))<br>  - Network access to each camera separately (e.g., using communication with the parent video server but keeping format requirements valid)<br>• API endpoints:<br>  - Static image (jpeg format), i.e. http://{ip_address}:{port}/ISAPI/Streaming/channels/1/picture<br>  - Video stream (mjpeg format), i.e. http://{ip_address}:{port}/ISAPI/Streaming/channels/2/httpPreview<br>**Warranty: minimum 2 years** | | |
| 3.7 | Junction box for outdoor cameras | | |
| 3.8 | ODF Panel, Cross FO for cabinet | | |
| 3.9 | Mounting (distribution) box 100x100mm | | |
| | **Fasteners, connectors, cable, other elements according to the Technical Project** | | |
| | **Full video monitoring system installation, commissioning, and training of the Police Inspectorate Operators and of the IT specialists from the Cahul Mayoralty, responsible for managing the Smart City Platform will be ensured by the Offeror.** | | |
| | **Offeror will ensure technical support and maintenance of the video monitoring system 12 (twelve) months after commissioning of the system.** | | |

I, the undersigned, certify that I am duly authorized to sign this quotation and bind the company below in event that the quotation is accepted.

| *Exact name and address of company* | Authorized Signature: _____ |
|---|---|
| Company NameClick or tap here to enter text.<br><br>Address: Click or tap here to enter text.<br><br><br>Phone No.: Click or tap here to enter text.<br><br><br>Email Address: Click or tap here to enter text. | _____<br><br>Date: Click or tap here to enter text.<br><br><br>Name: Click or tap here to enter text. |

| | Functional Title of Authorised Signatory: Click or tap here to enter text. |
| | Email Address: Click or tap here to enter text. |