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| TENDER DOCUMENTATION FOR SINGLE TENDER PROCEDURE |

**PART A: INFORMATION FOR TENDERER**

This document contains the following parts:

* Instructions to tenderer
* Technical specifications / required services
* Format of contract to be signed with the tenderer
* Administrative compliance grid

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| INSTRUCTIONS TO TENDERERS |

1. **INFORMATION ON SUBMISSION OF THE TENDERS**

Subject of the contract:

The subject of this tender is:

* Provision of supplies as indicated in the technical information in the part ‘’services required / technical specifications’’ of this document.

Deadline for submission of the tenders:

The deadline for submission of tenders is **10.02.2023 at 14:00 hours**. Any tender received after this deadline will be automatically rejected.

Address and meanings for submission of the tenders:

The tenderers will submit their tenders using the:

* **standard tender submission form and technical offer available in the Part B of the tender dossier** AND
* **financial offer available in the Part C of this tender dossier**. The financial offer needs to be submitted in a separate envelope.

The tender will be submitted in **1 original**. In case of e-mail submission the tenderer will provide a scan of signed original of the tender. Any tenders not using the prescribed form might be rejected by the contracting authority.

In addition to the offer, the tenderer is required to provide the following supporting documentation (in copies or scanned versions in case of e-mail submission):

* Copy of legal registration,
* Bank account details to which the payments shall be made.

The tenders will be submitted via post/currier, containing the following information:

* Name and address of the tenderer
* Title of the tender: Procurement of the equipment for AIHOME project
* Reference number: CFCU/MNE/208
* The words: ‘’Not to be opened before the tender opening session’’ – “Ne otvarati prije procedure za otvaranje ponuda”.

The tenders will be submitted in person, by post or courier service to the following address:

Novi Volvox

Voislavljevića 91, 81 000 Podgorica

Contact person: Jovana Otašević

The tenderers are reminded that in order to be eligible the tenders need to be received by the contracting authority by the deadline indicated above.

1. **TECHNICAL INFORMATION**

The tenderers are required to provide supplies as indicated in the part ‘’Required services / Technical specifications’’ of this document. In the tenderer’s technical offer, the tenderers will indicate more details on the deliveries, referring back to the below table.

1. **FINANCIAL INFORMATION**

N/A

1. **ADDITIONAL INFORMATION**

The award criteria is:

* Lowest price of technically compliant offers.

The unsuccessful/successful tenderers will be informed of the results of the evaluation procedure in written.

The estimated time of response to the tenderers is 7 days from the deadline for submission of tenders.

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| TECHNICAL SPECIFICATIONS |

| **1.**  **Item Number** | **2.**  **Specifications Required** |
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| **1** | Computer working station, 3 PCs  CPU: 8 cores or better  RAM: 8 GB or higher  Display: 2560x1664 or higher, 13.6 inch or larger  Memory: min 512 GB SSD  Brand name: Yes  Operating system: Linux/Unix based  Connectivity: Wifi, BLE, HDMI, USB 3.0  **Expected delivery: 7-10 days** |
| **2** | *Programmable logical controller with OS, 10 PCs*   * Microcomputer: RPI 4, Model B – 4GB * OS: Rasbian * AI IOs: 13 Inputs and 8 Outputs; * Digital Optoisolated Inputs (5-24Vdc): 13 * Digital Optoisolated Outputs (5-24Vdc): 8 * Operating voltage: 12-24V * Ready for industrial applications   **Expected delivery: 7-10 days** |
| **3** | *Industrial arduino programmable logical controller, 10 PCs*   * Microcontroller: Arduino Mega; * Digital Optoisolated Inputs (5-24Vdc): 16 * Analog Inputs (0-10Vdc): 6 * Digital Optoisolated Outputs (5-24Vdc): 14 * Analog Inputs (0-10Vdc): 8 * Communication: Ethernet, USB, I2C, UART, RS-232, RS-485, SPI, DALI * Flash Memory (KB): 256 * Flash Memory of which used by bootloader (KB): 8 * SRAM (KB): 8 * EEPROM (KB): 4 * Clock Speed (MHz): 16 * Power Supply Voltage (Vdc) Range - 12-24   **Expected delivery: 7-10 days** |
| **4** | *Relay board with 32CH, 10 PCs*   * Interface: RS485 * Operating Voltage: DC 12V * Standby current: 8mA * Maximum current per relay: 10A * Channels: 32   **Expected delivery: 7-10 days** |
| **5** | *Modbus thermo controller, 26 PCs*   * Max Measuring Temperature: 49°C & Under * Usage: Indoor * Power Type: Charger * Remote control: RS485 protocol * Voltage: 24VAC,95-240VAC * Temperature range: 5°C -45°C * Accuracy: 0.5°C   **Expected delivery: 7-10 days** |
| **6** | *DALI controller, 10 PCs*   * Power supply: DALI Power * DALI BUS Standard: IEC62386 * 4 channel control   **Expected delivery: 7-10 days** |
| **7** | *DALI slave device, 26 PCs*   * Power supply: DALI Power * DALI BUS Standard: IEC62386 * Control voltage/current: 220V, 10A   **Expected delivery: 7-10 days** |
| **8** | DC Power supply 12/24V, 10 PCs   * Power Supply AC: 220V * Current: 0-10A * Output Frequency: 50/60Hz * Output Type: single output * Voltage output DC: 12V, 24V * Power: 75W, 120W   **Expected delivery: 7-10 days** |
| **9** | DALI Power supply, 10 PCs   * Rated supply voltage: 220 – 240 V * Mains frequency: 50 / 60 Hz * Typ. rated current (at 230 V, 50 Hz, full load) - 57 mA * Power: >= 4.7 W * Output voltage: - 13.5 V ± 5 % * Max. output current, DALI: 240 mA * Max. casing temperature tc: 80 °C * Type of protection: IP20   **Expected delivery: 7-10 days** |
| **10** | Microcontroller board, 30 PCs   * Operating Voltage: 3.3V * Input Voltage: 3.3V~5.5V * Support Low-Power: 2mA * Max Discharge Current: 600mA@3.3V LDO * Max Charge Current: 500mA * Processor: Tensilica LX6 dual-core processor (One for high-speed connection; one for independent application development) * Main Frequency: 240MHz * SRAM: 520KB * Flash: 4MB * Wi-Fi Standard: FCC/CE/TELEC/KCC * Wi-Fi Protocol: 802.11 b/g/n/d/e/i/k/r (802.11n，speed up to 150 Mbps), A-MPDU and A-MSDU Aggregation, support 0.4us guard interval) * Frequency Range: 2.4~2.5 GHz * Bluetooth Protocol: Bluetooth v4.2 BR/EDR and BLE standard compliant * Operating Current: 80mA（Average） * On-chip Clock: 40MHz crystal, 32.768KHz crystal * Digital I/O x10 * Analog Input x5 * SPI x1 * IIC x1 * I2S x1 * Operating Temperature: -40℃~+85℃   **Expected delivery: 7-10 days** |
| **11** | *10'' industrial touch screen display, 10 PCs*   * Touch type: Resistive touch * Brightness: 300cd/m2 * Viewing Angle: 160° * Size: 10 inch * Contrast Ratio: 1000:1 * Response Time: 5ms   **Expected delivery: 7-10 days** |
| **12** | *Environmental sensors, 10 sets*   * Set of sensors measuring minimum three environmental parameters * Communication: I2C, UART or USB * Manual with communication protocol.   **Expected delivery: 7-10 days** |
| **13** | *Thermal sensors, 10 sets*   * Set of sensors measuring health conditions of humans * Communication: I2C, UART or USB * Manual with communication protocol.   **Expected delivery: 7-10 days** |
| **14** | *Measurement sensors, 10 sets*   * Arduino compatible sensors for measuring power, current and voltage * Communication: I2C, UART, RS-485 or USB * Manual with communication protocol.   **Expected delivery: 7-10 days** |
| **15** | Meteo station, 1 PC   * Operating voltage: 5V * Temperature range: -40-80℃ * Humidity range: 0-99% * Communication interface: TTL * Measurements: temperature, humidity, wind direction, wind speed, precipitation.   **Expected delivery: 7-10 days** |
| **16** | *Matrix display, 4 PCs*   * Tube Chip Color: Full Color * Pixels: 3mm * Module Chip: SMD2121 * Interface Way: HUB-75 * With power supply and video processing board * Waterproof: Yes   **Expected delivery: 7-10 days** |
| **17** | *IP camera, 2 PCs*   * Power Supply(V): DC12V * Power Supply: With POE * High Definition: 8.0 Megapixels * Supported Operating Systems: Windows XP,Windows 7,Windows 8,Windows 10 * Lens (mm): 6mm,3.6mm,2.8mm * Style: Bullet * CameraConnectivity: IP/Network Wired * Illumination(Lux): 0.001Lux F1.2 * Scene: Indoor and Outdoor * Color Night Vision: YES * Megapixels: 8MP * Compression Format: H.264,H.265IR * Distance(m): 30-50 meter * AlarmAction: FTP Photo,Local * Functions: Face Detection * IP Rating: IP67 * Special Features: Waterproof * Supply(V): DC12V * Audio Output: 1CH * Sensor: CMOSSensor   **Expected delivery: 7-10 days** |
| **18** | Inductive loop, 6 PCs   * Voltage: 220VAC * Three levels of sensitivity; * Waterproof outdoor   **Expected delivery: 7-10 days** |
| **19** | *Electronic enclosure, 50 PCs*   * Nominal insulation voltage Ui = 690 V a.c./d.c. * Nominal current: 40 A * Material PP (polypropylene) * Type of protection IP 66   **Expected delivery: 7-10 days** |
| **20** | *PCB board, 30 PCs*   * Type: Double Side Copper Prototype PCB * Dimension: 8x12cm 80\*120mm DIY Universal Printed Circuit Board Protoboard   **Expected delivery: 7-10 days** |

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| FORMAT OF CONTRACT TO BE SIGNED WITH THE TENDERER |

**CONTRACT TITLE:** Procurement of the equipment for AIHOME project

**REF:** CFCU/MNE/208

**Concluded between:**

Novi Volvox, LLC

Vojislavljevića 91, 81 000 Podgorica

Represented by: Samo Jovićević, CEO

(Contracting Authority)

AND

Title

Address of the contractor

Represented by:

(Contractor)

**Article 1: Subject of the contract**

The subject of the contract are the supplies as indicated in the contractor’s offer – ‘’Part B: Documents to be completed by the tenderer’’

**Article 2: Contract value**

The total contract value for delivery of supplies indicated in the Article 1 is: XXX EUR. The price cannot be revised.

**Article 3: Contracting documents**

This documents which form the part of this contract are (by the order of precedence):

* Contract agreement
* Contractor’s technical offer as provided in the tendering phase – ‘’Part B: Documents to be completed by the tenderer’’
* Contractor’s financial offer as provided in the tendering phase ‘’Part C: Financial offer’’
* Any other supporting documentation if applicable

**Article 4: General provisions**

The Contractor shall execute the contract with due care, efficiency and diligence in accordance with the best professional practice.

The Contractor shall ensure the highest visibility to the financial contribution of the European Union. To ensure such publicity the Contractor shall implement among other actions the specific activities described in the Special Conditions. All measures must comply with the rules in the Communication and Visibility Requirements for EU External Actions by the European Commission.

**Article 5: Deliveries and payments**

The contractor will deliver without reservation the supplies indicated in the contractor’s offer ‘’Part B: Documents to be completed by the tenderer’’. The deliveries will be implemented within the indicated dates.

The Contractor shall deliver the supplies in accordance with the conditions of the contract. The supplies shall be at the risk of the Contractor until their final acceptance.

The contracting authority will pay to the contractor the supplies in the amount indicated in the Article 2 of this contract document. The payments will be issued by the following time schedule.

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| **Month** |  | **<EUR/\*\*\*>** |
| 1 | Maximum Pre-financing payment | <0% of the contract value> |
| 2 | Balance final payment | <100 % of the contract value> |
|  | **Total** | <Total contract value> |

The payments for delivery of supplies will be made upon verification of the provisional/final acceptances.

This contract is exempt from taxes (Customs duties, import duties, taxes or fiscal charges having equivalent effect, Value added tax, documentary stamp or registration duties or fiscal charges having equivalent effect) as per Framework Agreement signed between European Commission and Government of Montenegro.

**Article 6: Duration of the contract**

The duration of the contract is 2 months.

**Article 7: Cancellation of the contract**

The contract can be suspended by the Contractor due to one of the following reasons:

* Contracting Authority not fulfilling payment and other obligations

The contract can be terminated by the Contracting Authority due to one of the following reasons:

* The Contractor is in serious breach of the contract, failing to meet contractual obligations
* The Contractor is bankrupted or being wound up, is having its affairs administrated by courts, has entered into arrangements with creditors, has suspended business activities, is the subject of proceedings concerning those matters, or is in any analogous situations arising from a similar situation provided for in national legislation or regulations.

**Article 8: Resolving of disputes**

Any disputes arising out of or relating to this Contract which cannot be settled otherwise shall be referred to the exclusive jurisdiction of Privredni sud Podgorica in accordance with the national legislation.

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| **For the Contractor** | | **For the Contracting Authority** | |
| Name: |  | Name: Samo Jovićević |  |
| Title: |  | Title: CEO |  |
| Signature: |  | Signature: |  |
| Date: |  | Date: |  |

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| ADMINISTRATIVE COMPLIANCE GRID (to be completed by Contracting Authority) |

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| **Contract title :** | Procurement of the equipment for AIHOME project | **Publication reference :** | CFCU/MNE/208 |

| Tender envelope number | Name of Tenderer | Is tenderer nationality eligible?  (Y/N) | Is documentation complete?  (Y/N) | Is language as required?  (Y/N) | Is tender submission form complete?  (Y/N) | Other administrative requirements of the tender dossier?  (Yes/No/Not applicable) | Overall decision?  (Accept / Reject) |
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