Appendix 2 - MICAS Passive Networking Infrastructure Proposal Submission Form

Project Title: Passive Networking Infrastructure for Malta International Contemporary Art Space (MICAS)

Project Reference: MICAS/EOI/11/2024

Submission Deadline: Monday, September 2, 2024

Please fill out this form comprehensively to ensure all aspects of your proposal are clearly outlined. This will facilitate our evaluation process.

Bidder Information

Company Name: _____

Contact Person: _____

Email Address: _____

Phone Number: _____

Address: _____

Proposal Overview

Provide a summary of your approach to the project, highlighting your experience with similar projects and your proposed methodology for this project.

Total Cost Summary			Total Cost Including Taxes, Other Duties and Discounts but Exclusive of VAT. €
A	The contractor will install a single-mode fibre optic backbone from the main MDF in the Admin Block Server Room, terminating at all other IDFs distributed across the entire MICAS complex. This will be accomplished via an underground manhole and protected by contractor-supplied metal sleeving. The installation includes necessary labelling, termination, testing, and certification of all fibre optic connections to ensure compliance with industry standards and optimal performance. Additionally, the contractor shall provide specialized lifting equipment to access the underfloor plenum space within the Galleries (Phase 3) for cable routing and termination at the Main Distribution Frame (MDF).	Single Mode	
B	The contractor will install a multimode fibre optic backbone from the main MDF in the Admin Block, terminating at other IDFs distributed across the entire MICAS complex. This will be accomplished via the same underground manhole, utilizing "separate" contractor-supplied metal sleeving for protection. The installation includes the necessary labelling, termination, testing, and certification of all fibre optic connections to ensure compliance with industry standards and optimal performance. The contractor shall also provide specialized lifting equipment necessary to access the underfloor plenum space within the Galleries (Phase 3) for cable routing and termination at the Main Distribution Frame (MDF).	Multimode	
C1	Supply and installation of a server rack cabinet in the Administration Block Server Room.	Qty x 3 – 19-inch floor standing lockable cabinet with front and back mesh/glass door, split front & back door opening, ventilation fans and adjustable feet measuring 800x1000 47U	

C2	Supply and installation of a server rack cabinet in the Administration Block, serving as an IDF at the basement level.	Qty x 1 wall mounted 10U	
C3	Supply and installation of a server rack cabinet in the Security Room.	Qty x 1 – 19-inch floor standing lockable cabinet with front and back mesh/glass door, split front & back door opening, ventilation fans and adjustable feet measuring 800x1000 42U	
D	Copper cabling infrastructure throughout the Administration Block. This installation will include labelling, termination, testing, and certification of all STP (Shielded Twisted Pair) and/or FFTP (Foiled Fully Shielded Twisted Pair) connections to ensure compliance with industry standards and to achieve optimal performance.	Cat6 Shielded Twisted Pair (STP) or Foiled Fully Screened Twisted Pair (FFTP) copper cabling will be installed throughout the Administration Block to support high-speed data transmission. Cabling will extend from patch panels in the Main Distribution Frame (MDF) to floor boxes in the raised flooring, providing wired Ethernet connectivity. Additionally, STP/FFTP uplinks will be installed to support wireless access points (APs) for two separate Wi-Fi networks: one integrated with MITA's MAGNET network and the other with a private WiMAX network.	
E	Copper cabling infrastructure in the Security Room. This installation will include labelling, termination, testing, and certification of all STP (Shielded Twisted Pair) and/or FFTP (Foiled Fully Shielded Twisted Pair) connections to ensure compliance with industry standards and achieve optimal performance.	The contractor will install Cat6 Shielded Twisted Pair (STP) or Foiled Fully Screened Twisted Pair (FFTP) copper cabling in the Security Room to enable high-speed data transmission. The copper cabling will run from patch panels in the Main Distribution Frame (MDF) to wall ports in the Security Room, providing wired Ethernet connectivity. The cabling will be routed through surface-mounted trunking. Additionally, STP/FFTP uplinks will be deployed to support wireless access points (APs) for two separate Wi-Fi networks: one integrated with MITA's MAGNET network and the other with a private network.	

F	Supply, installation, and testing of passive equipment inside server racks. This includes three racks in the Server Room, one rack in the Main Administration Block IDF, and one rack in the Security Room.	Procurement, supply, installation, testing, and certification of all required passive network components within the Main Server Room inside the Administration Block, including three server racks, a basement-located Intermediate Distribution Frame (IDF), and the Security Room's Main Distribution Frame (MDF). Passive equipment to be supplied shall encompass, but not be limited to, patch panels and cable assemblies. The contractor is obligated to provide high-quality passive network components that are not currently part of MICAS' inventory.	
G	Mounting of all active network equipment, including switches, routers, Wi-Fi controllers, firewalls, and UPS systems. This equipment will be supplied by MICAS through MITA, as well as from third-party vendors and ISPs.	Effective coordination by the contractor with third-party stakeholders, primarily MITA and Internet Service Providers (ISPs), including WiMAX provider is essential to ensure seamless equipment commissioning and optimal system performance.	
H	The contractor shall provide a comprehensive set of network documentation, including network topology diagrams, cable schedules, termination points, and test results for all installed copper and fibre optic cabling. This documentation must include certification reports detailing performance metrics such as attenuation, return loss, and crosstalk for each cable link. Additionally, a detailed as-built drawing showing the final network configuration, including equipment locations and interconnections, must also be provided.		
I	One rack-mountable UPS for the MDF in the Administration Block: The UPS should be a 3kVA unit designed for high performance. It must feature true double-conversion online topology with a pure sine wave output and a power factor of 0.9 or higher. The UPS should include hot-swappable batteries, an LCD display for real-time monitoring, and network		

	management capabilities via SNMP. It must offer surge protection, automatic voltage regulation (AVR), and a minimum runtime of 10 minutes at full load. Additionally, the UPS should support scalable runtime with extra battery packs, include both USB and serial ports, and comply with EU safety and performance standards, including EN 62040-1 (safety), EN 62040-2 (EMC), and EN 62040-3 (performance and testing).		
J	**MICAS Structured Cabling Solution BOQ:** Please insert Grand Total from Appendix 1 - MICAS Structured Cabling Solution BOQ		
		Total Cost for the Entire Proposal **Values are to be submitted in Euro Including Taxes, Other Duties and Discounts but Exclusive of VAT.**	
All amounts quoted are to be submitted up to two decimal points.			
Bidders are reminded that the Contracting Authority is entitled to reject any offer which is considered to be abnormally low.			

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Certification

I certify that the information provided in this proposal is accurate and that the quoted prices are valid for 90 days from the submission deadline.

Authorized Signature: _____

Name and Title: _____

Date: _____

Instructions for Submission

- Please ensure all sections of the form are completed.
- Attach any additional documentation or detailed plans as necessary.
- Submit the completed form and any attachments via email to people@micas.art by the submission deadline.
- **Bidders capable of commencing project activities on or before Tuesday, September 10, 2024, and achieving project completion by Monday, September 30, 2024, will be given priority. Bidders must demonstrate the capacity for around-the-clock operations if required to meet the specified timeline.**
- **The installation, termination, testing, and certification of the dual fibre optic backbone shall be accorded the highest priority within the project timeline.**