

REQUEST FOR PROPOSALS

Supply of server equipment for operating the e-MCH system.

I. BACKGROUND

Improved data capacity and digital technologies are important catalysts for accelerating achievement of the 2030 Sustainable Development Goal 3 (SDG) targets. Actionable and relevant data is the foundation to monitor progress toward SDG 2030. Harmonized digital systems optimize the health system to deliver in a coordinated manner, quality and equitable health services. Digital systems can catalyze a necessary transformation in the health system - addressing ongoing data gaps and persistent health system challenges, facilitating a more resilient, person-centered, and responsive health system.

The health sector of Viet Nam is transitioning from data reporting using paper-based methods to digital applications/solutions. In the area of maternal and child health, data related to pregnant women, mothers, newborn and young children are collected during health check-ups using relevant software installed at the health facilities. Aggregated statistical data are reported vertically on a monthly basis to the national level to assist with monitoring of progress and implementing activities.

In partnership with Ministry of Health, UNICEF Viet Nam is supporting to develop an overall Maternal and Child Health (MCH) electronic information management system that manages every individual's information, ensuring data connection with other relevant digital health platforms such as Medical examination and treatment management software (HIS), Medical statistics software and National Immunization Information System (NIIS). This will ease the burden of data entry for medical staff, improve data quality, and enable data aggregation and analysis for administration, intervention mapping, and policy making in the field of maternal and child health care including reproductive health.

To ensure functioning of this system, UNICEF Viet Nam seeks to contract a highly qualified supplier to provide server equipment for Ministry of Health (MOH). The server equipment will meet the detail technical information mentioned in the **Annex 1**.

II. SCOPE OF WORK & TIMEFRAME

1. Scope of Work

- Contractor will be responsible for the supply, installation and delivery of server equipments to MOH.
- Contractor is required to provide on-site demo session regarding basic operations.
- Contractor must provide a complete list of items, including quantity. Each item is to be identified with manufacturer name, origin, brand, model, and serial number (if possible).
- Contractor must provide details of the warranty, a list of centers for maintenance and contact details for all service/maintenance requests.
- Contractor shall be responsible for on-site maintenance of the equipment during the warranty period.
- Contractor shall provide a copy of the maintenance and operation manual in Vietnamese and warranty information for product.
- Contractor shall coordinate its activities with relevant colleagues from MOH and UNICEF.

2. Expected Delivery Date

All products must be handed over to the recipients at national level (relevant line department of Ministry of Health) by **30th June 2024**.

III. TECHNICAL SPECIFICATIONS AND REQUIREMENTS

1. General requirements

The Contractor can be a **Local Manufacturer, an Importer, or a Distributor with local office in Viet Nam**.

1	Product and brand	International recognized brands and products have been established and traded in Viet Nam for at least 3 years.
2	Quality of goods	Brand-new, manufactured in 2023 or after. <i>Environmental friendly and energy saving products are preferred.</i>
3	Origin of goods	Certificate of origin (original or certified copy) Certificate of quality Records of importation in case of imported goods Or factory certificates and invoices in case of domestically manufactured goods (original or certified copy)
4	Warranty (from date of delivery)	Minimum of 36 months and one-to-one exchange of products within the first 3 months in case of hardware faults. Onsite warranty for server equipment.
5	Maintenance centers	Maintenance centers are available in Ha Noi to ensure quick access.
6	Installation	Install server equipments, setup the latest operating system (Ubuntu 22.04 or the newest) for servers
7	User manual	For each product, provide one copy of maintenance and operation manual in Vietnamese (and one copy in English (if any)).
8	Accessories	Power cord and Rackmount kit

2. Minimum technical requirement for server equipment:

No.	INFORMATION	SPECIFICATIONS OF THE PRODUCT	Quantity
1	Web Server		2
1	Form Factor	Rackmount 2U, 16 x 2.5 chassis	

2	Processor (CPU)	2 x Intel Xeon Gold 6430 32 C 2.1 GHz	
3	Chipset	Intel C741	
4	Memory	8 x 32GB (1x32GB) 2Rx8 DDR5-4800 R ECC	
		32 DIMM slots	
		Expandable capacity 8TB	
5	Support RAM memory protection mechanism	ECC Memory Scrubbing SDDC ADDDC (Adaptive Double DRAM Device Correction) Memory Mirroring	
6	Storage	5 x SSD SATA 6G 3.84TB Read-Int. 2.5'	
7	Raid	Raid 0,1,5	
8	Optical drive	Capability for upgrading to an additional DVD-RW drive supermulti ultraslim SATA	
		Capability for upgrading to an additional Blu-ray Disc™ Triple Writer, (6x BD-RW, 8x DVD, 24x CD), ultraslim	
9	Tape	Capability to add additional LTO7, RDX Drive on the mainboard	
10	Connection port	4 x 1G BaseT	
11	Interface port	5 x USB 3.0 (2x front, 2x rear, 1x internal)	
		Expansion capability up to 2 x VGA	
		Capability to upgrade with an additional 1 x serial RS-232-C	
12	PCI Bus & Slots	6 x PCI-Express 5.0, 1 x PCI-Express 4.0 Capability to upgrade to up to 8 PCIe slots	
13	Standard	CB; CE; GS; RoHS; WEEE; VCCI Class A + JIS 61000-3-2	
14	Management feature	Integrated remote management controller (minimum 1GB memory);	
		Compatibility IPMI 2.0; DCMI 1.5;	
		Feature support : Advanced Video Redirection (AVR) và Virtual Media;	
		Support integration with user management: Microsoft Active Directory; OpenLDAP	

		There is a centralized management system that allows the administration of devices including servers, storage devices, and switches. Supports management for up to 1000 devices	
15	Cooling system	6 fans, redundant / hot-plug	
16	BIOS Features and Security	UEFI compliant	
		Secure boot support	
		ROM based setup utility	
		GPT support for boot drives larger than 2.2 TB	
		Memory Redundancy support (Mirroring)	
		IPMI support	
		Recovery BIOS	
		BIOS settings save and restore	
		Local BIOS update from USB device	
		Online update tools for main Linux versions	
		IPv4/IPv6 remote PXE & iSCSI boot support	
		Cryptographically Signed BIOS Firmware Update	
		HTTP and HTTPS Boot	
		PCIe Bifurcation configurable	
		Agent-free device management	
		Alerts and logging	
		Supports PFR technology enabling workload protection, data encryption, virtual machine protection, and prevention of unauthorized access	
		Secure security and authentication	
17	Supported operating systems	Windows Server 2019, 2022 Red Hat® Enterprise Linux 8 SUSE® Linux Enterprise Server 15 Vmware 7.0, 8.0 UBUNTU 22.04	
18	Power supply	02 x 1600W hot-plug power supply ;	
19	Accessories	Power cord and Rackmount kit	
20	Guarantee	03 year onsite	

2	Database Server		1
1	Form Factor	Rackmount 2U, 16 x 2.5 chassis	
2	Processor (CPU)	2 x Intel Xeon Gold 6430 32 C 2.1 GHz	
3	Chipset	Intel C741	
4	Memory	8 x 32GB (1x32GB) 2Rx8 DDR5-4800 R ECC	
		32 DIMM slots	
		Expandable capacity 8TB	
5	RAM memory protection mechanism	ECC Memory Scrubbing SDDC ADDDC (Adaptive Double DRAM Device Correction) Memory Mirroring	
6	Storage	5 x SSD SATA 6G 3.84TB Read-Int. 2.5'	
7	Raid	Raid 0,1,5	
8	Optical drive	Capability for upgrading to an additional DVD-RW drive supermulti ultraslim SATA	
		Capability for upgrading to an additional Blu-ray Disc™ Triple Writer, (6x BD-RW, 8x DVD, 24x CD), ultraslim	
9	Tape	Capability to add additional LTO7, RDX Drive on the mainboard	
10	Connection port	4 x 1G BaseT	
11		5 x USB 3.0 (2x front, 2x rear, 1x internal)	
		Expansion capability up to 2 x VGA	
		Capability to upgrade with an additional 1 x serial RS-232-C	
12	PCI Bus & Slots	6 x PCI-Express 5.0, 1 x PCI-Express 4.0 Capability to upgrade to up to 8 PCIe slots	
13	Standard	CB; CE; GS; RoHS; WEEE; VCCI Class A + JIS 61000-3-2	
14	Management feature	Integrated remote management controller (minimum 1GB memory);	
		Compatibility IPMI 2.0; DCMI 1.5;	
		Feature support: Advanced Video Redirection (AVR) và Virtual Media;	

		Support integration with user management: Microsoft Active Directory; OpenLDAP	
		There is a centralized management system that allows the administration of devices including servers, storage devices, and switches. Supports management for up to 1000 devices	
15	Cooling system	6 fans, redundant / hot-plug	
16	BIOS Features and Security	UEFI compliant	
		Secure boot support	
		ROM based setup utility	
		GPT support for boot drives larger than 2.2 TB	
		Memory Redundancy support (Mirroring)	
		IPMI support	
		Recovery BIOS	
		BIOS settings save and restore	
		Local BIOS update from USB device	
		Online update tools for main Linux versions	
		IPv4/IPv6 remote PXE & iSCSI boot support	
		Cryptographically Signed BIOS Firmware Update	
		HTTP and HTTPS Boot	
		PCIe Bifurcation configurable	
		Agent-free device management	
		Alerts and logging	
		Supports PFR technology enabling workload protection, data encryption, virtual machine protection, and prevention of unauthorized access	
		Secure security and authentication	
17	Supported operating systems	Windows Server 2019, 2022 Red Hat® Enterprise Linux 8 SUSE® Linux Enterprise Server 15 Vmware 7.0, 8.0 UBUNTU 22.04	
18	Power supply	02 x 1600W hot-plug power supply	
19	Accessories	Power cord and Rackmount kit	
20	Guarantee	03 year on site	

	Storage Server (NAS)		1
1	Form Factor	Rackmount 2U, 10 x 3.5 chassis	
2	Processor (CPU)	1 x Intel Xeon Silver 4410Y 12C 2.0 GHz	
3	Chipset	Intel C741	

4	Memory	4x 32GB (1x32GB) 2Rx8 DDR5-4800 R ECC	
		32 DIMM slots	
		Expandable capacity 8TB	
5	RAM memory protection mechanism	ECC Memory Scrubbing SDDC ADDDC (Adaptive Double DRAM Device Correction) Memory Mirroring	
6	Storage	2 x SSD SATA 6G 240GB Read-Int. 3.5	
		4 x HD SATA 6G 4TB 7.2K 3.5'	
7	Raid	Raid 0,1,5	
8	Optical drive	Capability for upgrading to an additional DVD-RW drive supermulti ultraslim SATA	
		Capability for upgrading to an additional Blu-ray Disc™ Triple Writer, (6x BD-RW, 8x DVD, 24x CD), ultraslim	
10	LAN port	4 x 1G BaseT	
11	Interface port	5 x USB 3.0 (2x front, 2x rear, 1x internal)	
		Expansion capability up to 2 x VGA	
		Capability to upgrade with an additional 1 x serial RS-232-C	
12	PCI Bus & Slots	6 x PCI-Express 5.0, 1 x PCI-Express 4.0 Capability to upgrade to up to 8 PCIe slots	
13	Standard	CB; CE; GS; RoHS; WEEE; VCCI Class A + JIS 61000-3-2	
14	Management feature	Integrated remote management controller (minimum 1GB memory);	
		Compatibility IPMI 2.0; DCMI 1.5;	
		Feature support : Advanced Video Redirection (AVR) và Virtual Media;	
		Support integration with user management: Microsoft Active Directory; OpenLDAP	
		There is a centralized management system that allows the administration of devices including servers, storage devices, and switches. Supports management for up to 1000 devices	

15	Cooling system	6 fans, redundant / hot-plug	
16	BIOS Features and Security	UEFI compliant	
		Secure boot support	
		ROM based setup utility	
		GPT support for boot drives larger than 2.2 TB	
		Memory Redundancy support (Mirroring)	
		IPMI support	
		Recovery BIOS	
		BIOS settings save and restore	
		Local BIOS update from USB device	
		Online update tools for main Linux versions	
		IPv4/IPv6 remote PXE & iSCSI boot support	
		Cryptographically Signed BIOS Firmware Update	
		HTTP and HTTPS Boot	
		PCIe Bifurcation configurable	
		Agent-free device management	
		Alerts and logging	
		Supports PFR technology enabling workload protection, data encryption, virtual machine protection, and prevention of unauthorized access	
		Secure security and authentication	
17	Operating systems	Windows Server 2022 Standard	
18	Power supply	02 x 1600W hot-plug power supply ;	
19	Accessories	Power cord and Rackmount kit	
20	Warranty	03 year on site	

IV. TECHNICAL PROPOSAL

The following documents must be included in/attached to the Technical Proposal:

1. Business Registration Certificate;
2. Financial Statements of two recent years (2021 - 2022) in English with notarization and in Vietnamese (duly signed and stamped);
3. Supplier Profile Form (**attached as Annex 3**);
4. Letter of Authorization/Endorsement from the Manufacturer;
5. Proof of past experience with UN agencies, well-known customers if available.
6. Relevant certificates/brochures/data sheets demonstrating the general requirements in section III for the quoted items.

7. A Technical Proposal indicating briefly how the vendor will execute and manage this project to meet the expected delivery date (details of quoted items, personnel, mode of transportation).
8. Completed **Vendor Compliance Matrix** form (see **Annex 1**)

V. FINANCIAL PROPOSAL

- Price must be quoted in Viet Nam Dong (VND) exclusive of all taxes as UNICEF is a tax-exempted organization.
- Unit price must be inclusive of all services described under the Scope of Work.
- Financial Proposals must be submitted separately from the Technical Proposals.

VI. EVALUATION PROCESS AND METHOD

Both Technical and Financial Proposals must be submitted **in Vietnamese with letterhead, signature, title, and stamp of the Contractor, and in pdf. files.**

Any proposals received by UNICEF after the Submission Deadline will be rejected.

The proposals will be evaluated against the following criteria:

1. Technical Evaluation Criteria (maximum 60 points)

Criteria		Points
1	Meeting of all general requirements	15
2	Meeting of all technical specifications	30
3	Delivery time	15
Total		60

2. Financial Evaluation Criteria (maximum 40 points)

Criteria		Points
1	Best value for the price	25
2	Inclusive of all required accessories	10
3	Extra offers beneficial to end users and/or sustainability features	5
Total		40

Each Proposal will be assessed first on its technical merits and subsequently on its price. A maximum of 60 points is allocated to the technical component and 40 points for the price component, with a maximum possible total score of 100 points. Only bidders who meet the minimum of 50 points for technical criteria will be qualified for financial evaluation.

The proposal obtaining the overall highest score after adding the scores for the technical and financial proposals is the proposal that offers best value for money and will be recommended for award of the contract.

VII. PAYMENT TERMS

- Payment shall be made in **two instalments**:
 - 1st payment: advance of 10% of total contract value after signing the contract, upon submission of a valid invoice and Bank Guarantee (**see template in Annex 2**);
 - 2nd payment: 90% of total contract value within 30 days upon submission of a valid invoice and the receipt of delivery signed and stamped by the recipient.
- Vendor is required to submit the **Bank Guarantee (following the template provided in Annex 2)** for the advance payment of 10% of total contract value.
- UNICEF reserves the right to withhold all or a portion of payment if performance is unsatisfactory, or work is incomplete or not delivered, or failure to meet deadlines.

VIII. PROJECT MANAGEMENT

The overall management will lie with the Chief of CSDE while the day-to-day management will be undertaken by the MCH Specialist and Health Officer.

Women-owned companies are encouraged to bid. Preference will be given to equally technically qualified women-owned companies.

LIST OF ANNEXES

ATTACHED TO THE REQUEST FOR PROPOSAL

ANNEX 1 - Vendor Compliance Matrix

ANNEX 2 - Bank Guarantee (mandatory template)

ANNEX 3 - Supplier Profile Form

ANNEX 4 - The UNICEF General Terms and Conditions of Contract (Goods)