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TO: ALL BIDDERS FROM: Sally Alvarez de Schreiner  
Chief, Procurement Services Section

DATE: 14 June 2024 REF.: RFQ No. 2024-0083/MCNEILL VM

TEL. NO.: TEL. NO.: +43 1 26030 6350

EMAIL: EMAIL: procurement@ctbto.org

SUBJECT: Clarifications No. 2  
RFQ No. 2024-0083/MCNEILL - "Supply and Delivery of laptops and spare hard drives".

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Dear Bidders,

Reference is made to the Request for Quotation No. 2024-0083/MCNEILL for the "Supply and Delivery of laptops and spare hard drives" (RFQ).

Please find attached **Clarifications #2** and kindly note that as a result of this round of clarifications, the **Compliance Matrix** and **Specifications were updated**.

These clarifications, including updated Compliance Matrix and Specifications shall be an integral part of the RFQ and shall be taken into account in the preparation and submission of quotations.

If you have already submitted a quotation and these clarifications and/or revised RFQ documents have an impact in the submitted quotation, you may withdraw your earlier submission and submit a new quotation before the deadline.

We are looking forward to receiving your quotation prior to the deadline of **Friday 21 June 2024 17:00 hours, Vienna (Austria) local time**.

Sincerely,

*SAS*  
Sally Alvarez de Schreiner  
Chief, Procurement Services Section

**Attachments:**

1. Clarifications No. 2
2. Updated Compliance Matrix
3. Updated Specifications

### Clarifications No. 2

(Please note, the shaded questions/answers were already sent out as Clarifications No. 1)

<b>RFQ No. 2024-0083/MCNEILL</b> <i>Supply and Delivery of laptops and spare hard drives</i> <b>Clarifications</b>	
Question	Answers from the Commission
<p><u>Question 1</u></p> <p>In the Introduction there is a request for 7p.; in the Compliance Matrix 2.1 8p. Please inform us how many pieces are requested.</p>	<p><u>Answer 1</u></p> <p>7 pieces are requested. Please see attached the updated “Compliance Matrix” including the amendments highlighted in red.</p>
<p><u>Question 2</u></p> <p>Compliance Matrix 19: Expansion Slot: “1XVGA,1XSerial,1X2ndLAN” – should this exp. slot already included in the device and pricing, or separately listed with separate pricing or both?? Like in the Introduction listed under 2.2?? but not in the Compliance Matrix</p>	<p><u>Answer 2</u></p> <p>It should not be included in the price for 2.1. The laptop requested in 2.1 must have an expansion slot free for the expansion module that must provide 1xVGA, 1xSerial, 1x Gigabit LAN (minimum). The expansion slot is separately requested in 2.3.</p>
<p><u>Question 3</u></p> <p>Partly Offers acceptable per Section like only for example: 2.1, 2.5. The question is not the amount, for example: an offer for the Toughbooks only acceptable or all other items like Lenovo, Hard Disks, need to be included in the offer</p>	<p><u>Answer 3</u></p> <p>Yes, partial offers are acceptable.</p>
<p><u>Question 4</u></p> <p>Compliance Matrix Point 2.1 5) in the introduction requested HD LCD, in the Matrix Full HD-Touchscreen requested: Please inform HD or FHD-TS</p>	<p><u>Answer 4</u></p> <p>HD LCD is requested (no touchscreen). Please refer to the Specification and be guided accordingly.</p>

<p><u>Question 5</u></p> <p>We have still one point to clarify, regarding the Answer Clarification No.1 Answer: HD LCD is requested (no touchscreen). Please refer to the Specification and be guided accordingly.</p> <p><b><u>Compliance Matrix (Specifications):</u></b>        2.1 5)        Display: LCD,14" TFT active matrix color LCD screen <b>1920 x 1080 pixels (Full HD Capacitive Touch Screen)</b></p> <p><b>FZ-55 MK3: only HD or FHD with Touchscreen available, FHD without Touchscreen not available for MK3!</b>        HD: 14" Active Matrix (TFT) colour LCD <b>1366 x 768 pixels (HD)</b>        FHD-TS: 14" Active Matrix (TFT) colour LCD <b>1920 x 1080 pixels (Full-HD)</b>, capacitive 10 finger Touch Screen, up to 1.000cd/m<sup>2</sup> brightness        à (Touch Screen can be deactivated)        Please clarify which resolution will be requested?</p>	<p><u>Answer 5</u></p> <p>Full HD resolution of 1920x1080 is requested, (touch screen is not necessary)</p>
<p><u>Question 6</u></p> <p>In position 2.2 you write that “The Contractor will be responsible for the supply and delivery of seven (7) external ruggedized SSD hard drives meeting the following specification:” but are listing specifications of a laptop. Can you elaborate on that?</p>	<p><u>Answer 6</u></p> <p>Please see the updated Compliance Matrix and the updated Specifications which address this point. Please be guided accordingly.</p>

## ANNEX B

### SPECIFICATION

#### Supply and Delivery of Laptops and Spare Hard Drives

#### 1. INTRODUCTION

##### 1.1 Background

The Preparatory Commission for the Comprehensive Nuclear-Test-Ban Treaty Organization (hereinafter referred to as “the Commission”) desires to engage a contractor (hereinafter referred to as “the Contractor”) to supply, deliver ruggedized field laptops and external hard drives (hereinafter referred to as the “Goods” or “Equipment” for the International Monitoring System (IMS) Infrasound Stations.

This Specification defines all technical requirements for the Equipment.

IMS staff frequently perform computer tasks outdoors in harsh environments, that can include rain/high humidity, high-heat, and dust. In addition, field deployments often present opportunities for equipment damage, necessitating more robust equipment choices.

#### 2. CONTRACTOR’S REQUIREMENTS

The Contractor shall deliver the Goods/Equipment in accordance with this Specification, while doing so in the most cost-effective manner possible. The Goods shall be delivered by the Contractor to the Commission no later than **4-6 weeks** after receipt of the Purchase Order, unless otherwise agreed between the Commission and Contractor.

##### 2.1 Supply of Ruggedized Laptops

The Contractor shall be responsible for the supply and delivery of **seven (7)** ruggedized laptops meeting the following specification:

- 1) **Manufacturer:** Panasonic or equivalent;
- 2) **Model:** Toughbook 55 mk3 HD or equivalent;
- 3) **Processor:** Processor Intel® Core™ i5-1345U vPro™ or higher;
- 4) **Operating System:** Windows 10 Pro or higher, in English language;
- 5) **Display:** LCD,14” TFT active matrix LCD screen;
- 6) **Graphics card:** Intel® Iris Xe Graphics or equivalent;
- 7) **LAN:** Minimum one 1000BASE-T RJ45 port;
- 8) **WLAN:** Intel® Wi-Fi6E AX211;
- 9) **RAM:** Minimum 32GB;
- 10) **Hard Drive and Capacity:** Minimum 1TB NVMe OPAL SSD;
- 11) **Keyboard:** QWERTY English;
- 12) **Interfaces:** minimum 2x USB 3.1, 1x Thunderbolt, 1x HDMI, 1x Micro SDCX, 1x

Headset/sound;

- 13) **Bluetooth:** 5.3;
- 14) **Front webcam:** 2 MP with infrared / protective shutter (Windows Hello compliance);
- 15) **Mobile Network:** 4G LTE, EM7421, eSIM support;
- 16) **Warranty:** 2 years minimum;
- 17) **Battery:** Lithium-ion 10,8 V, 6500 mAh (typ.), 6300 mAh (min.), battery hot-swap function for 2<sup>nd</sup> battery functionality required;
- 18) **Backpack/Case:** Basic topload for 15.6" laptop;
- 19) **Expansion slot** for additional VGA x1, Serial x1, 2nd Gigabit LAN x1 for rear Expansion Slot communication ports;
- 20) **Drop resistance** 91cm, IP5x dust resistance, IPx3 water resistance, operating temperature -29 Celsius to +60 Celsius
- 21) **Dimensions** 345x272x32.8mm without protruding parts, approx. 2.08kg;
- 22) **AC Adapter** Input 100-240Vac 50-60Hz, Output 15.6Vdc 7.05A;

## 2.2 Supply of robust office Laptops

The Contractor shall be responsible for the supply and delivery of **ten (10)** ruggedized laptops meeting the following specification:

- 1) **Manufacturer:** Lenovo or equivalent;
- 2) **Model:** T16 G2 21HH007SGE or equivalent;
- 3) **Processor:** Processor Intel® Core™ i7-1355U vPro™ 1.2/1.7GHz to 3.7/5.0GHz, 12MB cache or higher;
- 4) **Operating System:** Windows 10 Pro or higher;
- 5) **Display:** LCD, 15" WUXGA IPS display 1920x1200 16:10, 400nits, 1000:1 contrast ratio, anti-glare, lower power, eyesafe certified 2.0;
- 6) **Graphics card:** Intel® Iris Xe Graphics or equivalent or higher;
- 7) **LAN:** Minimum one built-in 1000BASE-T RJ45 port, I219-V Ethernet connection;
- 8) **WLAN:** Intel® Wi-Fi 6E AX211;
- 9) **RAM:** Minimum 32GB DDR5-5600;
- 10) **Hard Drive and Capacity:** Minimum 1TB NVMe OPAL 2.0 SSD;
- 11) **Keyboard:** QWERTY English;
- 12) **Interfaces:** minimum 2x USB 3.2 Gen 1, 2xUSB 4 (Typ-C/Thunderbolt 4, 1x HDMI, 1x Headset);
- 13) **Bluetooth:** 5.3;
- 14) **Front webcam:** 5 MP with infrared / protective shutter;
- 15) **Mobile Network:** Quectel EM05-G, 4G LTE CAT4 with eSIM support;
- 16) **Warranty:** 3 years minimum;
- 17) **Battery:** Lithium-polymer 52.5Wh, Rapid charge 0-80% in 60 minutes;
- 18) **Backpack/Case:** Basic topload style for 16" laptop;
- 19) **Mil-STD-810H** military test passed, operating temperature +5Celsius to +35Celsius;
- 20) **Dimensions** 20.5x361.9x255.5mm, 1.67kg;
- 21) **AC Adapter** Input 100-240Vac 50-60Hz, 65W USB-C charger

## 2.3 Supply of Expansion boards for Panasonic Toughbook 55 mk3 HD

The Contractor shall be responsible for the supply and delivery of **seven (7) Panasonic FZ-VCN552U** expansion boards for Panasonic Toughbook 55 mk3 HD:

- 1) **Manufacturer:** Panasonic or equivalent;

- 2) **Model:** FZ-VCN552U or equivalent, must be compatible with Panasonic Toughbook 55;
- 3) **Ports:** 1x VGA, 1x Serial, 1x Gigabit LAN
- 4) **Warranty:** 1 year minimum;

#### **2.4 Supply of 65W USB-C travel charger**

The Contractor shall be responsible for the supply and delivery of **seventeen (17)** 65W USB-C travel chargers:

- 1) **Manufacturer:** Lenovo or equivalent;
- 2) **Model:** #40AW0065WW equivalent;
- 3) **Power:** 65W, 100-240Vac input, output USB-C;
- 4) **Input power connector:** mains power connector changeable to US, EU, AU and UK mains power plugs;
- 5) **Dimensions:** 117g, 6x4.25x3cm, 1.8m USB-C cable;
- 6) **Warranty:** 1 year minimum;

#### **2.5 Supply of Hard Drives 1TB NVMe M2 2280 PCIe 4.0**

The Contractor shall be responsible for the supply and delivery of **twenty (20)** 1TB NVMe M2 2280 PCIe 4.0 hard drives:

- 1) **Manufacturer:** Samsung or equivalent;
- 2) **Model:** 980 Pro or equivalent;
- 3) **Capacity:** minimum 1TB;
- 4) **Data speed:** minimum 7000MB/sec read, 5100MB/s write;
- 5) **IOPS:** 1000000 read/1000000 write
- 6) **MTBF:** 1.5 mio. hours
- 7) **SSD Encryption:** 256bit TVG Opal encryption
- 8) **Other:** TRIM support, Turbo Write, V-NAND 3bit MLC technology, Elpis Controller
- 9) **Dimensions:** M.2.2280 – 80mm, PCI-E 4.0 x4 connection, 22.15x80.15x2.38mm, 9g;
- 10) **Operating temperature:** 0-70Celsius
- 11) **Warranty:** 5 year/600TBW minimum;

#### **2.6 Supply of 1TB 2.5" SATA internal hard drives**

The Contractor shall be responsible for the supply and delivery of **forty (40)** 1TB 2.5" SATA internal hard drives:

- 1) **Manufacturer:** Samsung or equivalent;
- 2) **Model:** 870EVO or equivalent;
- 3) **Capacity:** minimum 1TB;
- 4) **Data speed:** minimum 560MB/sec read, 530MB/s write;
- 5) **IOPS:** 98000 read/88000 write
- 6) **MTBF:** 1.5 mio. hours
- 7) **SSD Encryption:** 256bit TCG/Opal encryption
- 8) **Other:** V-NAND 3bit MLC technology, SATA 6Gb/s interface
- 9) **Dimensions:** 2.5", 100x69.85x6.8mm, 45g;

- 10) **Operating temperature:** 0-70Celsius
- 11) **Warranty:** 5year/600TBW minimum;

### **2.7 Delivery Timeline**

The Contractor shall deliver the Goods described in Sections 2 to the Commission's Headquarters in Vienna, Austria. Shipping of the Goods to Vienna shall be done in the most efficient manner possible. The Goods shall also be packed in such a manner that they can be stored for extended periods of time and travel by either land or sea. Delivery of the Goods described in this Specification shall be made within 4-6 weeks, unless otherwise agreed between the Commission and Contractor.

**Attachment 1 to the Specification - Compliance Matrix  
Laptops and Spare Hard Drives**

Please fill in the statements and provide descriptions to confirm the technical specifications:

No.	Section	Specification	Statement (Y/N)	Description (provided by the Bidder)
2	CONTRACTOR'S REQUIREMENTS	The Contractor shall deliver the Goods/Equipment in accordance with this Specification, while doing so in the most cost-effective manner possible.		
		The Goods shall be delivered by the Contractor to the Commission no later than 4-6 weeks after receipt of the Purchase Order, unless otherwise agreed between the Commission and Contractor		
2.1	Supply of Ruggedized Laptops	The Contractor will be responsible for the supply and delivery of <b>seven (7)</b> ruggedized laptops meeting the following specification:		
		1) Manufacturer: Panasonic or equivalent		
		2) Model: Toughbook 55 mk3 HD or equivalent		
		3) Processor: Processor Intel® Core™ i5-1345U vPro™ or higher		
		4) Operating System: Windows 10 Pro or higher		
		5) Display: LCD,14" TFT active matrix color LCD screen 1920 x 1080 pixels (Full HD Capacitive <del>Touch Screen</del> )		
		6) Graphics card: Intel® Iris Xe Graphics or equivalent		
		7) LAN: Minimum one 1000BASE-T RJ45 port		
		8) WLAN: Intel® Wi-Fi6E AX211		
		9) RAM: Minimum 32GB		
		10) Hard Drive: Minimum 1TB NVMe OPAL SSD		
		11) Keyboard: QWERTY English;		
		12) Interfaces: minimum 2x USB 3.1, 1x Thunderbolt, 1x HDMI, 1x Micro SDCX, 1x Headset/sound		
		13) Bluetooth: 5.3;		
		14) Front webcam: 2 MP with infrared / protective shutter (Windows Hello compliance);		
		15) Mobile Network: 4G LTE, EM7421, eSIM support		
		16) Warranty: 2 year minimum		
		17) Battery: Lithium-ion 10,8 V, 6500 mAh (typ.), 6300 mAh (min.), battery hot-swap function for 2nd battery functionality required		
		18) Backpack/Case: Basic topload for 15.6" laptop		
		19) Expansion slot for additional VGA x1, Serial x1, 2nd Gigabit LAN x1 for rear Expansion Slot communication ports		
20) Drop resistance 91cm, IP5x dust resistance, IPx3 water resistance, operating temperature -29 Celsius to +60 Celsius				
21		Dimensions 345x272x32.8mm without protruding parts, approx. 2.08kg		
		AC Adapter Input 100-240Vac 50-60Hz, Output 15.6Vdc 7.05A		
2.2	Supply of robust office Laptops	The Contractor will be responsible for the supply and delivery of <b>ten (10)</b> robust office Laptops meeting the following specification:		
		1) <b>Manufacturer:</b> Lenovo or equivalent;		
		2) <b>Model:</b> T16 G2 21HH007SGE or equivalent;		
		3) <b>Processor:</b> Processor Intel® Core™ i7-1355U vPro™ 1.2/1.7GHz to 3.7/5.0GHz, 12MB cache or higher;		
		4) <b>Operating System:</b> Windows 10 Pro or higher;		
		5) <b>Display:</b> LCD,15" WUXGA IPS display 1920x1200 16:10, 400nits, 1000:1 contrast ratio, anti-glare, lower power, eyesafe certified 2.0;		
		6) <b>Graphics card:</b> Intel® Iris Xe Graphics or equivalent or higher;		
		7) <b>LAN:</b> Minimum one built-in 1000BASE-T RJ45 port, I219-V Ethernet connection;		
		8) <b>WLAN:</b> Intel® Wi-Fi 6E AX211;		
		9) <b>RAM:</b> Minimum 32GB DDR5-5600;		
		10) <b>Hard Drive and Capacity:</b> Minimum 1TB NVMe OPAL 2.0 SSD;		
		11) <b>Keyboard:</b> QWERTY English;		
		12) <b>Interfaces:</b> minimum 2x USB 3.2 Gen 1, 2xUSB 4 (Typ-C/Thunderbolt 4, 1x HDMI, 1x Headset);		
		13) <b>Bluetooth:</b> 5.3;		
		14) <b>Front webcam:</b> 5 MP with infrared / protective shutter;		
		15) <b>Mobile Network:</b> Qcetel EM05-G, 4G LTE CAT4 with eSIM support;		
		16) <b>Warranty:</b> 3 years <u>minimum</u> ;		
		17) <b>Battery:</b> Lithium-polymer 52.5Wh, Rapid charge 0-80% in 60 minutes;		
		18) <b>Backpack/Case:</b> Basic topload style for 16" laptop;		
		19) <b>Mil-STD-810H</b> military test passed, operating temperature +5Celsius to +35Celsius;		
20) <b>Dimensions</b> 20.5x361.9x255.5mm, 1.67kg;				
21) <b>AC Adapter</b> Input 100-240Vac 50-60Hz, 65W USB-C charger				
2.3	Supply of Expansion boards for Panasonic Toughbook 55 mk3 HD	The Contractor shall be responsible for the supply and delivery of <b>seven (7)</b> Panasonic FZ-VCN552U expansion boards for Panasonic Toughbook 55 mk3 HD		
		1) <b>Manufacturer:</b> Panasonic or equivalent;		



2.4	2)	<b>Model:</b> FZ-VCN552U or equivalent, must be compatible with Panasonic Toughbook 55;		
	3)	<b>Ports:</b> 1x VGA, 1x Serial, 1x Gigabit LAN		
	4)	<b>Warranty:</b> 1 year minimum		
2.5	Supply of 65W USB-C travel charger	The Contractor shall be responsible for the supply and delivery of <b>seventeen (17)</b> 65W USB-C travel chargers:		
	1)	<b>Manufacturer:</b> Lenovo or equivalent;		
	2)	<b>Model:</b> #40AW0065WW equivalent;		
	3)	<b>Power:</b> 65W, 100-240Vac input, output USB-C;		
	4)	<b>Input Power Connector:</b> mains power connector changeable to US, EU, AU and UK mains power plugs;		
	5)	<b>Dimensions:</b> 117g, 6x4.25x3cm, 1.8m USB-C cable;		
2.6	Supply of Hard Drives 1TB NVMe M2 2280 PCIe 4.0	The Contractor shall be responsible for the supply and delivery of <b>twenty (20)</b> 1TB NVMe M2 2280 PCIe 4.0 hard drives:		
	1)	<b>Manufacturer:</b> Samsung or equivalent;		
	2)	<b>Model:</b> 980 Pro or equivalent;		
	3)	<b>Capacity:</b> minimum 1TB;		
	4)	<b>Data speed:</b> minimum 7000MB/sec read, 5100MB/s write;		
	5)	<b>IOPS:</b> 1000000 read/1000000 write		
	6)	<b>MTBF:</b> 1.5 mio. hours		
	7)	<b>SSD Encryption:</b> 256bit TVG Opal encryption		
	8)	<b>Other:</b> TRIM support, Turbo Write, V-NAND 3bit MLC technology, Elpis Controller		
	9)	<b>Dimensions:</b> M.2.2280 – 80mm, PCI-E 4.0 x4 connection, 22.15x80.15x2.38mm, 9g;		
	10)	<b>Operating temperature:</b> 0-70Celsius		
2.6	Supply of 1TB 2.5" SATA internal hard drives	The Contractor shall be responsible for the supply and delivery of <b>forty (40)</b> 1TB 2.5" SATA internal hard drives:		
	1)	<b>Manufacturer:</b> Samsung or equivalent;		
	2)	<b>Model:</b> 870EVO or equivalent;		
	3)	<b>Capacity:</b> minimum 1TB;		
	4)	<b>Data speed:</b> minimum 560MB/sec read, 530MB/s write;		
	5)	<b>IOPS:</b> 98000 read/88000 write		
	6)	<b>MTBF:</b> 1.5 mio. hours		
	7)	<b>SSD Encryption:</b> 256bit TCG/Opal encryption		
	8)	<b>Other:</b> V-NAND 3bit MLC technology, SATA 6Gb/s interface		
	9)	<b>Dimensions:</b> 2.5", 100x69.85x6.8mm, 45g;		
	10)	<b>Operating temperature:</b> 0-70Celsius		
2.7	Delivery of items	The Contractor shall deliver the Goods described in Section 2 to the Commission's headquarters in Vienna, Austria.		
		Shipping of the Goods to Vienna shall be done so in the most efficient manner possible.		
		The Goods shall also be packed in such a manner that they can be stored for extended periods of time and travel by either land or sea.		
		Delivery of the Goods described in this Specification shall be made within <b>4-6 weeks after receipt of the Purchase Order, unless otherwise agreed between the Commission and Contractor</b>		