

INVITATION TO BID: No. ITB/CO/YEMSA/24/03

Annex A:

Technical Specification for Supply and Delivery of ICT Items to Southern and Northern Areas in Yemen

1- Item: Lenovo ThinkPad T14s G4 i5 vPro without Autopilot

Required Specifications	
Lenovo ThinkPad T14s G4 i5 vPro with Autopilot	
OS	Windows 11 Pro 64 English
Processor	13th Generation Intel® Core™ i5-1345U vPro® Processor (E-cores up to 3.50 GHz P-cores up to 4.70 GHz)
Graphics	Integrated Intel Iris Xe Graphics
Camera	5MP RGB+IR with Microphone
Display	14" WUXGA (1920 x 1200), IPS, Anti-Glare, Touch, 45%NTSC, 300 nits, 60Hz
Memory	32 GB LPDDR5-6400MHz (Soldered)
Storage	512 GB SSD M.2 2280 PCIe Gen4 TLC Opal
WWAN	Fibocom L860-GL-16 4G LTE CAT16
Ethernet	Lenovo USB-C to RJ45 Ethernet adapter.
WLAN	Intel Wi-Fi 6E AX211 2x2 AX
Bluetooth	Bluetooth Version 5.1 or above
Fingerprint reader	Fingerprint reader
Battery	Integrated Li-Polymer 57Wh battery
Keyboard	Backlit Keyboard Black English (EU)
Warranty	3 Years Manufacturers Warranty
AC Adapter	65W USB-C Slim 90% PCC 3Pin AC Adapter - EU
4X41C12468	Lenovo ThinkPad Essential 16-inch Backpack
4Y51D20850	Lenovo ThinkPad USB Compact Mouse

2- Item: Lenovo ThinkPad P16 G2 – 128GB

Required Specifications	
Lenovo ThinkPad P16 G2	
OS	Windows 11 Pro 64 English
Processor	13th Generation Intel Core i9-13980HX Processor (E-cores up to 4.00 GHz P-cores up to 5.60 GHz)
Graphics	NVIDIA RTX A1000 Laptop GPU 6GB GDDR6
Camera	1080P FHD IR/RGB Hybrid with Microphone
Display	16" WQXGA (2560 x 1600), IPS, Anti-Glare, Non-Touch, 100% sRGB, 500 nits, 165Hz, Low Blue Light
Memory	128 GB DDR5-5600MHz (SODIMM) - (4 x 32 GB)
Security Chip	Discrete TPM 2.0
Storage Selection	1 TB SSD M.2 2280 PCIe Gen4 TLC Opal
Second Storage	1 TB SSD M.2 2280 PCIe Gen4 TLC Opal
HDD Total Capacity	2TB
WWAN	Fibocom L860-GL-16 4G LTE CAT16

Ethernet	USB-C to 2.5G Ethernet Dongle
WLAN	Intel Wi-Fi 6E AX211 2x2 AX & Bluetooth 5.2 or above with vPro
Raid	RAID 0
Fingerprint reader	Fingerprint Reader
Battery	6 Cell Li-Polymer 94Wh
Keyboard	Backlit, Grey with Number Pad - US International (w/ Euro)
Warranty	3 Year On-site
AC Adapter	170W Slim 30%PCC 3pin AC Adapter - EU
4X41C12468	Lenovo ThinkPad Essential 16-inch Backpack
4Y51D20850	Lenovo ThinkPad USB Compact Mouse

3- Item: Lenovo ThinkPad P1 G6 – 128GB

Required Specifications	
Lenovo ThinkPad P1 Gen6-OLED-Touch	
Autopilot	MS Autopilot Registration
OS	Windows 11 Pro 64 English
Processor	13th Generation Intel Core i7-13700H Processor (E-cores up to 3.70 GHz P-cores up to 5.00 GHz)
Graphics	NVIDIA GeForce RTX 4060 Laptop GPU 8GB GDDR6
Camera	5MP RGB+IR with Privacy Shutter and Dual Microphone
Display	16" WQUXGA (3840 x 2400), OLED, Anti-Reflection/Anti-Smudge, Dolby Vision, Touch, 100%DCI-P3, 400 nits, 60Hz, Low Blue Light
Memory	64 GB DDR5-5600MHz (SODIMM) - (2 x 32 GB)
Storage	1 TB SSD M.2 2280 PCIe Gen4 Performance TLC Opal
WWAN	
Ethernet	USB-C to 2.5G Ethernet Dongle
WLAN	Intel Wi-Fi 6E AX211 2x2 AX vPro & Bluetooth 5.1 or above
Bluetooth	Bluetooth 5.1 or above
Fingerprint reader	Fingerprint Reader
Battery	4 Cell Li-Polymer 90Wh
Keyboard	Backlit Keyboard Black US International (EURO) with Fingerprint Reader
Warranty	3 Year On-site
AC Adapter	230W Slim 3pin AC Adapter - EU
4X41C12468	Lenovo ThinkPad Essential 16-inch Backpack
4Y51D20850	Lenovo ThinkPad USB Compact Mouse

4- Item: Accessories, Lenovo, Docking Station

Required Specifications

ThinkPad Universal USB-C Dock (40AY0090UK)

Max. No of Monitors	3
Refresh Rate	2x 3840x2160 @60 Hz, 1x 3840x2160 @30 Hz
AC Plug	Slip Tip
Output Power	65 W with 90 W power adapter connected, 100 W with 135 W power adapter connected
Charging Port	DC-IN
USB Ports	3 x USB 3.2 Gen 2, 2 x USB 2.0, 1 x USB-C
Video Ports	1x Display Port, 1x HDMI Port
Ethernet	Gigabit Ethernet 10/100/1000
Warranty	3 Years
Input Power	90W
Power Button & Delivery	Yes, Yes

5- Item: Accessories, Lenovo, Docking Station

Required Specifications

ThinkPad Thunderbolt 4 Workstation Dock (40B00300UK)

Max. No of Monitors	4
Refresh Rate	1* 8K 30Hz Via HDMI 2.1 4*4K 60 Hz
AC Plug	Slip Tip
Hardware Requirements	Host with USB-C/Thunderbolt port
Output Power	230W
Charging Port	DC-IN
Thunderbolt Port	1x Thunderbolt Port - for Host connect; 1x Thunderbolt Port - for Device connect
USB Ports	4* USB-A 3.2 Gen 2 (1 always on), 1* USB-C 3.2 Gen 2
Video Ports	1x HDMI 2.1; 2x DP 1.4
Ethernet	Gigabit Ethernet 10/100/1000
Warranty	3 Years
Included Accessory	300W adapter, 1x power cord, 0.7 m Thunderbolt 4 Split Cable
Input Power	20V. 15A
Power Button & Delivery	Yes, Yes

6- Item: Thales Cogent Multi-Finger Scanner DactyScan84c,

Required Specifications

Thales Cogent Multi-Finger Scanner DactyScan84c

Active Scanning Window	<ul style="list-style-type: none">▪ Flat four fingers up to 3.2" x 3.0",▪ Two Flat Thumbs up to 3.2" x 3.0"▪ Rolled finger up to 1.6" x 1.6"▪ 500 dpi
Scratch Resistant Surface	At Least 6H Hardness
Interface	USB 2.0
Image Quality and Formats	<ul style="list-style-type: none">▪ FBI IAFIS IQS Appendix F & Mobile ID FAP60 certified▪ ANSI/NIST-ITL 1-2007/2011 ISO/IEC FCD 19794-4▪ ANSI/NIST-ITL 1-2000▪ ANSI/NIST-ITL 1-2000 Interpol Implementation
Temperature	Storage: from -20°C to +60°C, Operating: from +0°C to +50°C
Humidity	From 10 to 90% (non-condensing), IP Rating: IP54
Dimensions	Standard top version: 148x152x148mm, Flat top version: 148x152x121mm
Weight	1,4 Kg
Supported Operating Systems	Microsoft Windows® up to Win11, 64-bit configuration, Linux Ubuntu, and Fedora distributions in 32-bit and 64-bit configuration, Android
Certifications	CE, FCC, RoHS, KCC and USB-IF
Options	Silicone Membrane