

Laptop Computers Type III (Core i7)

Features	Required Specification	Bidders Compliance	
		Yes/No	If No, Bidders Response
Make and Model	(Branded)		
Country of manufacture	(Branded)		
Country of origin	(Branded)		
Form Factor	Business Laptop Computer (Manufacture Confirmation must be attached)		
Chipset	Intel Integrated Chipset		
Processor	Intel® Core™ i7-10510U 1.8GHz processor (8 MB L3 cache) / AMD Ryzen™ 7 4700U Processor 2.00GHz up to 4.1GHz (12MB L2/L3 Cache)		
Memory RAM	16 GB of DDR4 system memory Upgradable to 32 GB or Higher capacity		
Maximum RAM speed and type	2666 MHz, DDR4 or higher		
Hard Disk	1TB SSD or Above		
Graphics	Intel HD Graphics / AMD Radeon™ Graphics		
Keyboard	(Specify)		
Touch Pad	Multi-gesture touchpad, supporting two-finger scroll		
Audio Audio Integrated speakers' microphone	Integrated high definition audio Integrated internal speakers Built-in microphone		
Communications Modem Ethernet description wireless Bluetooth	WLAN: 802.11ac WPAN: Bluetooth 4.0		
Inbuilt Camera	720p HD camera		
Expansion options PC card I/O ports	SDTM Card reader Microphone / Earphone jack USB 2.0 port Two USB 3.0 ports HDMI® port DC-in jack for AC adapter Fingerprint Reader		
Display type	14"/15.6" TFT LCD HD Resolution		



Quality/Stability and reliability tests of the Product quoted	The quoted product should possess test reports of the following, Spill-resistant keyboard to Provides protection against water spillage. (Should provide lab test as proof)		
Operating system	The system should be compatible with 64-bit Windows 10 and Ubuntu 16 (or latest)		
Application Software	Sinhala and Tamil Unicode Software Commercial Anti-virus with license for 3 years		
Battery	Minimum 8 Hours battery life (Specify Type / mAh / Hours)		
Security	Kensington lock slot		
Accessories Carrying case	Should be same brand		
Product certifications of the quoted Model	Energy Star or any other equal certificate to Energy Star, issued by authorized body who has the authority to do so, Documentary evidence must be provided Valid ISO 9001: 2015, and ISO 14001:2015		
Manufacture Experience	Manufacturer should have minimum of 3 years' experience in manufacturing of the same brand. (Proof document should be attached)		
Manufacturer Authorization Certificate	Manufacturer Authorization Certificate should be provided (Originals should be provided on request)		
Warranty	Comprehensive on-site manufacturer authorized warranty for 36 months (Labor and Parts) Excluding Consumes. Bidder or its parent company or its subsidiary should have Island wide owned branch network Documentary evidence to be provided of the following under bidders' name. (a) Address, Contact Details and Date of Commencement of each branch/regional office. (Should have completed minimum of 5 years from the Date of Commencement of each ranch/regional)		

Warranty Information	A sticker with -Supplier name -Contact Numbers -Date of Commissioning of Hardware -Warranty period In all Laptops		
Brochure	Supplier should provide original brochure of make/model quoted as per above specification		

Specification for High End Laptop Integrated Graphics

Description		Bidder's Response	Page No.
Make			
Model			
Country of Origin			
Detailed Specification - <i>Must be attached</i>			
Processor			
Processor Type	Intel Cor i7 (10th Generation or better)		
Processor Speed	2.80 GHz or Higher		
Processor Cores/Thread	4 / 8 or higher		
Processor cache	12 MB or higher		
Processor Architecture	64-bit		
Display & Graphics			
Graphics Memory Accessibility	Shared		
Graphics Controller Model	Iris Xe Graphics or Nvidia or AMD equivalent		
Screen Size	Between 13.3" - 15.6"		
Display Screen Technology	In-plane Switching (IPS) Technology or better		
Touchscreen	Yes		
Multi-touch Screen	Yes		
Screen Resolution	Full HD 1920 x 1080 or better		
Memory			
Standard Memory	16 GB or higher		
Memory Technology	LPDDR4X or better		
Memory Card Reader	Optional		
Memory Card Supported	microSD		
Storage			
Total Solid State Drive Capacity	512GB		
Solid State Drive Interface	PCI Express NVMe M.2		
Optical Drive Type	No		
Network & Communication			
Wireless LAN Standard	IEEE 802.11 a/b/g/n/ac/ax		

Description		Bidder's Response	Page No.
Built-in Devices			
Microphone	Yes		
Fingerprint Reader	Optional		
Number of Speakers	2		
Sound Mode	Stereo or better		
Webcam Resolution	720p or better		
Interfaces/Ports			
Number of HDMI Outputs	1		
Total Number of USB Ports (Two of them must be USB 3.0 or higher)	2 or more		
USB Type-C Detail	USB Type-C port: USB 3.2 Gen 2 (up to 10 Gbps), Thunderbolt 4 (optional)		
Input Devices			
Keyboard	Standard QWERTY		
TouchPad Features	Multi-touch Gesture		
Battery Information			
Number of Cells	4-cell or better		
Battery Chemistry	Lithium Ion (Li-Ion)		
Maximum Battery Run Time	10 Hour or better		
Maximum Power Supply Wattage	65 W or higher		
Miscellaneous			
Operating system	Not required.		
Weight (laptop only)	1.8kg or lower		
Dimensions	Depth (thickness): 19.5mm or lower Height: Not specified Width: Not specified		
Security Features	Firmware Trusted Platform Module (TPM) solution, Noble Lock TZ08		
Warranty	3 years or more comprehensive warranty		
Manufacturer Authorization Letter	Yes		

Specifications for General Purpose Server with FPGA capabilities

No.	Discription	Requirement	Supplier's Response	Page No.
			YES / NO	
	Brand	Specify by supplier		
	Model	Specify by supplier		
	Country of Origin	Specify by supplier		
	Detailed Specification	General Purpose Server with FPGA capabilities		
1	Processor	2 x 2nd Generation Intel® Xeon® Scalable processors, 22core/44thread or better (virtualization capable)		
2	Memory	4 x 32GB or more DDR4 expandable up to 512GB		
3	Memory Bandwidth	2933 MT/s or better		
4	Storage	HDD with RAID 0 configuration - 12TB usable storage		
5	Storage Controllers	RAID controller (1/0/10 compatible)		
6	Power Supplies	Dual hot plug redundant power supply (1+1) - 1100W - 2400W 100-240 V AC		
7	Dimensions	Rack Mountable (2U)		
8	Bezel	Optional LCD bezel or security bezel		
9	Security	TPM 2.0, Secure Boot, System Lockdown, Secure Erase		
10	Network options	4 x 1GbE, 4 x 10GbE, 2 x 10GbE+2 x 1GbE, or 2 x 25GbE		
11	Graphics	Integrated graphics		
12	I&O and Ports	PCIe: 6 x Gen3 slots or better		
		External : 3x USB 3.0, 1 managed (micro-usb), Video, Serial		
13	Accelerator	Xilinx Alveo U50 FPGA		
14	Supported operating systems	Canonical® Ubuntu® LTS, Citrix® Hypervisor, Microsoft® Windows Server® LTSC with Hyper-V, Oracle® Linux, Red Hat® Enterprise Linux, SUSE® Linux Enterprise Server, VMware® ESXi		
15	Warranty	Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response. (note: a copy of the warranty terms and conditions of the Bidder must be submitted with the Bid document)		
16	Manufacturer Authorization Letter	Should attach		

