Response to the queries received regarding Technical Specifications and Amendment

Desktop Computers (Type 1)

Features	Specification	Revised Specifications
Processor	Intel® Core™ i7-10710U Processor 10th Generation (12M Cache, Up to 4.7 GHz)	Intel® Core i7-9700k 9th Generation 12M Cache, 8 cores Base Frequency 3.60 GHz, Turbo Frequency 4.90 GHz
Ports	Rear: 4x USB3.0, 2x Type-C (TBT3, DP, USB3.1) and Side: 1x USB 3.0	**Front Ports:** 1 x USB Type-C, 1 x USB 3.1 Gen 1 1 x USB 3.1 Gen 2 1 x Combo Audio jack 1 x Mic **Rear Ports:** 2 x USB 2.0, 1 x USB 3.1 Gen 1 1 x USB 3.1 Gen 2 HDMI, VGA, DP + DP 1 x Serial, 1 x LAN, 1 x Audio
Chipset		Intel H370 Chipset
Expansion Slot		1 x PCIe 3.0 x16slots, 2 x PCIe 3.0 x 1 slot
Power Supply		500W 80% or better
Graphic card :	Nvidia GeForce GTX 1070	No change

Desktop Computers (Type 2)

Features	Specification	Revised Specifications
Processor	Intel® Core™ i7-10710U Processor 10th Generation (12M Cache, Up to 4.7 GHz)	Intel® Core™ i7-9700k 9th Generation 12M Cache, 8 cores Base Frequency 3.60 GHz, Turbo Frequency 4.90 GHz
Ports	Rear: 4x USB3.0, 2x Type-C (TBT3, DP, USB3.1) and Side: 1x USB 3.0	**Front Ports:** 1 x USB Type-C, 1 x USB 3.1 Gen 1 1 x USB 3.1 Gen 2 1 x Combo Audio jack 1 x Mic **Rear Ports:** 2 x USB 2.0, 1 x USB 3.1 Gen 1 1 x USB 3.1 Gen 2 HDMI, VGA, DP + DP 1 x Serial, 1 x LAN, 1 x Audio
Chipset		Intel H370 Chipset
Expansion Slot		1 x PCIe 3.0 x16slots, 2 x PCIe 3.0 x 1 slot
Power Supply		500W 80% or better
Graphic card	Nvidia GeForce GTX 1070	No Change

Desktop Computers (Type 3)

Features	Specification	Revised Specifications
Processor	Intel® Core™ i5-9600K Processor 10th Generation (9M Cache, up to 4.60 GHz)	Intel® Core™ i5-9700k, 9th Generation 12M Cache, 8 cores Base Frequency 3.60 GHz, Turbo Frequency 4.90 GHz
Graphics	4 GB integrated graphics	Intel UHD Graphics 620
Chipset		Intel B360
Expansion Slot		1 x PCIe 3.0 x16slots, 2 x PCIe 3.0 x 1 slot
Power Supply		300W 80% or better

Laptop (Type 1)

Features	Specification	Revised Specifications
Processor	Processor: Minimum Intel® Core™ i7-8565U or higher Processor	Original specification clearly mentions "8th generation or higher". This means 8th, 9th and 10th generation is eligible and can participate. Therefore no changes accepted
RAM	Minimum 16 GB DDR4 Memory expandable up to 64GB	We would like to allow upgrade options in the future and have flexibility. Limiting upto only 32GB RAM is not acceptable. Therefore no changes accepted.
Communication & I/O Ports	(Integrated in the laptop motherboard): Minimum 4 USB ports out of which 2 No USB 3.1 and One USB Type C 3.1 Gen1, 1x HDMI, 1 x VGA, RJ-45, SD Memory card reader, Universal Audio port Jack, security Lock slot.	Cannot remove VGA as it gives greater compatibility and flexibility especially since our work requires working in remote rural regions. Also, by removing VGA port option, consumer segment (i.e. home use segment) can also participate. We want ONLY COMMERCIAL products, which are rugged and robust. Therefore no changes accepted
Graphics:	Minimum Nvidia MX130 or higher	Minimum Nvidia MX130 or higher" is not OEM specific, it is a generic specification. You can participate with equal or higher specs (as mentioned in the original specification) but IT SHOULD BE NVIDIA ONLY as it gives superior performance especially when working with heavy high-resolution softwares. Therefore no changes accepted.
Battery Type:	Minimum 7 hrs. Back up (minimum 4 cell and 55Whr	It clearly indicates minimum 7 hrs. No change

Laptop (Type 2)

Features	Tender Specification	Revised Specifications
Operating System	64 bit	Microsoft Windows 10 Professional x64
Weight	Not more than 2.00 kg	No change.
Display	Maximum 13" Full HD, LED Widescreen	It is not OEM Specific and is available in most brands. No change

Laptop (Type 3)

Features	Specification	MBMA's Response
Processor	Intel® Core™ i5-9600K Processor 10th Generation (9M Cache, up to 4.60 GHz)	Intel® Core™ i5-10400H Processor 10th Generation (8M Cache, up to 4.60 GHz)
Graphics	4 GB Integrated Graphics	Intel UHD Graphics 620
RAM	8 GB RAMDDR4 Ram (expandable to 64 GB), 2400 MHz to 4233 MHz	No Change
Weight		Not more than 2.00 kg
Display		15 inch FHD Anti Glare
Battery		Up to 9 hours

Workstation (WK)

Features	Specification	MBMA's Response
DIMMs & Expansion Slots	4 DIMM slots or higher, minimum 4 expansion slots (including minimum 1x PCIe x 16, 1x PCI and 1x PCIe) or higher and minimum 1 x M.2 slots	Minimum 3 expansion slots and 1 x M.2 Slots.
Graphics	Nvidia GeForce RTX 2060, 6 GB or higher	Nvidia GeForce RTX 2060, 6 GB or higher is required for the proposed work. Therefore no changes accepted
SMPS	Minimum 800 Watt or above (90% energy efficient Power Supply) Should be capable of supporting fully configured PC	Even normal desktops use 400W/450W SMPS. This is a workstation – heavy machine. This SMPS is required for smooth working of high-resolution software, 3D software etc. Therefore no changes accepted
Motherboard:	Motherboard make from the same Desktop OEM (OEM logo must be embossed in the motherboard)	No change
Audio:	Integrated Audio controller with Internal speaker	No Change

Features	Specification	MBMA's Response
USB / HDMI / VGA Ports:	Integrated USB Port: Minimum 10 no's (Min 4 no's of USB 3.1 Gen-1 and 1 x USB 3.1 Type C), out of 10 Nos minimum 4 in front, 4 in back and should be easily accessible; Integrated HDMI: Minimum 1 no, Should be easily accessible; Integrated Display Port: Minimum 1 no should be easily accessible	No change and it is not OEM specific
OS certification	Windows 10 Professional and Ubuntu Linux	No change
Security:	Hardware based TPM 2.0, chassis Intrusion switch / Intrusion Sensor with chassis physical security cable lock slot. Desktop Auto performance tuning software from same Desktop OEM	No change
	Production Unit, Certification and Compliance: EPEAT India for the quoted desktop model; FCC, UL and ROHS for the quoted desktop model; Minimum Energy Star 6.0 / BIS & TCO Certification for Monitor and quoted Desktop model; OEM ISO 9001 and 14001 Certified India Unit (Proof of Certification of India unit to be submitted).	No change

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