

## Corrigendum-I: RCCIIT/MeitY Project 2024/NCB/001

**Pre-Bid Meeting:** 30-08-2024 @ 14:00 hrs,

**Venue** : Boardroom, Administrative Building, RCCIIT, Canal South Road, Beliaghata, Kolkata - 15

**Bid Reference** : RCCIIT/MeitY Project 2024/NCB/001

**Description** : Supply, Installation of Desktop PCs/WS and Mobile WS

As per provisions given queries/clarifications sought by the prospective bidders, RCCIIT, Kolkata issues the Amendments and also Responses to the Pre-Bid queries as follows:

### Amendments in Tender after Pre-bid Meeting

<b>SL. No.</b>	<b>Page No.</b>	<b>Clause No.</b>	<b>Description of Clause as per existing NCB</b>	<b>Decision to be read as</b>
1.	2	LAST DATE AND TIME FOR RECEIPT OF BIDS	DATE 13/09/2024 TIME 14:30 Hrs	DATE 23/09/2024 TIME 14:30 Hrs
2.	2	Inv TIME AND DATE OF OPENING OF BIDS	DATE 13/09/2024 TIME 15:00 Hrs	DATE 23/09/2024 TIME 15:00 Hrs
3.	41, 41, 42,43,44	SECTION VI: TECHNICAL SPECIFICATIONS	Attached as Annexure-I	Attached as Annexure-II
4.	Bidders are requested to quote for both the options as per option given in attached Annexure-II			

## **SECTION VI: TECHNICAL SPECIFICATIONS**

### Desktop /Workstation 100Nos

<b>Desktop with Core i5</b>	
<b>Features</b>	<b>Minimum Requirement</b>
<b>Processor</b>	CPU: Minimum Intel Core i5-14500 or higher processor <b>Cores/Threads:</b> 14/20 or higher, Base <b>Clock Speed:</b> 1.90 GHz or higher , <b>Max Turbo Boost Speed:</b> 5.00 GHz or higher, <b>Cache:</b> 24 MB Intel Smart Cache or higher (must supports both 32bit and 64 bit OS and application)
<b>Motherboard</b>	Intel W680 or latest series processor Compatible with processor OEM mother board with OEM/ODM's LOGO must be embossed on it <b>(No sticker/No print/No Paint)</b>
<b>Ram</b>	16GB (1x16GB) DDR5 4400 ECC or better (expandable up to 128 GB or more) with at least [4 DIMM Socket]
<b>Hard Disk Drive</b>	512GB PCIe M.2 NVMe Solid State Drive (SSD) or better
<b>Lan Card</b>	Ethernet: 1 x Gigabit Ethernet port or better
<b>Dedicated Grapic Card</b>	Dedicated GPU: NVIDIA T1000 8GB, 8 GB GDDR6 or higher with required connecting cable for monitor connectivity
<b>SMPS</b>	Minimum 850W or higher internal power supply compatible with the system preferred with Standard 24+4 pin connector only. It is desirable to have the option to fit a Standard size SMPS(W 15 cm, H 8.5 cm,D 14 cm) within the cabinet. Specify SMPS Dimension in cm with 80% - 95% efficiency
<b>Cabinet</b>	Standard Tower Only. Please specify dimensions in cm (H x W x D) and weight
<b>MISC.</b>	Minimum 2 x USB 3.2 Gen 2 (10GB) ports , 1 x USB 3.2 Type-C Gen 2x2 (20GB) and 2 x USB 3.2 Type-C Gen 2 (10GB) ports, 1x RJ45 Port , 2 x Display Port, Slots : Full-height Gen5 PCIe x16 slot , Full-height Gen3 PCIe x4 slot ,Full-height Gen 4 PCIe x4
	Audio: 1 x 3.5mm headphone/microphone combo jack / Universal audio port
<b>Audio:</b>	Integrated audio with internal speakers in the cabinet
<b>Keyboard</b>	Same OEM Standard USB Keyboard
<b>Mouse</b>	Same OEM Standard USB Optical Scroll
<b>Operating System support</b>	Windows 10/11 Unix, Linux/ fedora Ubuntu etc. And must support Dual boot with windows10/11 and Ubuntu 20 or higher
<b>Pre-Installed OS</b>	Windows 11 Professional Preloaded

	Factory Pre-loaded / Pre-installed Windows 11 Professional Operating System. OEM letter confirming that Operating system is pre-loaded / pre- installed from OEM factory and is genuine.
<b>Others</b>	Drivers to be provided and all drivers of supported operating systems must available in public domain for free download
<b>Power Cable</b>	Required power cable for connecting. PC and monitor with <b>6 Amp Indian type plug Only</b>
<b>Monitor</b>	Minimum Screen Size: 21.5 inches or higher Resolution: FHD (1920x1080) Panel Type: IPS/TN/VA Monitor Stand : Height Adjustable Monitor Power supply must integrate with the monitor, without any external power adaptor. Monitor regulatory certification : TCO 9 and Energy Star 8.0 by the same OEM
<b>Additional Features</b>	Security: Integrated Hardware TPM 2.0 in the motherboard Motherboard make from the same Workstation OEM (OEM logo must be embossed in the motherboard), Chassis must comply with chassis intrusion switch / sensor. Integrated Hardware Diagnostics software (same Workstation OEM make, any 3rd party software will not accept) in the BIOS. System must be capable for 64-bit operating system (Microsoft Windows and Ubuntu / Redhat / Suse Linux)
<b>Warranty</b>	3-year (3-3-3) onsite warranty and service including monitor, 3 years of parts, labour and on-site repair , Product serial number and warranty information should be available in public domain
<b>Certification</b>	ISO 9001, 14001, ISO 27001 for OEM, Energy star 7.1, EPEAT India Certified, TCO, ROHS and UL certificate.
<b>Quoted Workstation model Regulatory Certifications</b>	FCC, UL, CE, Energy Star 8.0 , Epeat India Gold , Windows 11 and Ubuntu / Redhat / Suse Linux certification for the quoted Workstation Model.
<b>OEM criteria</b>	OEM Must be ISO 27001,90001,14001 certified .Minimum 10 Years presence in India . Service request would be placed directly with the Workstation OEM for the duration of warranty. OEM Toll free service phone no, Email ID and chat option must be required along with the bid offering .

**SECTION VI - TECHNICAL  
SPECIFICATIONS**

**High-end Desktop 10Nos**

<b>Desktop/Workstation with Core i9</b>	
<b>Features</b>	<b>Minimum Requirement</b>
<b>Processor</b>	CPU: Minimum Intel Core i9-14900 or higher processor <b>Cores/Threads:</b> 24/32 or higher, <b>Base Clock Speed:</b> 2.00 GHz or higher, <b>Max Turbo Boost Speed:</b> 5.80 GHz or higher, <b>Cache:</b> 36 MB Intel Smart Cache or higher (must supports both 32bit and 64 bit OS and application)
<b>Motherboard</b>	Intel W680 or latest series processor Compatible with processor OEM mother board with OEM/ODM's LOGO must be embossed on it <b>(No sticker/No print/No Paint)</b>
<b>Ram</b>	64GB (2x32GB) DDR5 4400 ECC or better (expandable up to 128 GB or more) with at least [4 DIMM Socket]
<b>Hard Disk Drive</b>	1TB PCIe M.2 NVMe Solid State Drive (SSD) or better
<b>Lan Card</b>	Ethernet: 1 x Gigabit Ethernet port or better
<b>Dedicated Grapic Card</b>	Dedicated GPU: NVIDIA RTX 4000 Ada Generation, 20GB GDDR6, with required connecting cable for above monitor connectivity
<b>SMPS</b>	Minimum 850W or higher internal power supply compatible with the system preferred with Standard 24+4 pin connector . It is desirable to have the option to fit a Standard size SMPS(W 15 cm, H 8.5 cm,D 14 cm) within the cabinet. Specify SMPS Dimension in cm with 80% - 95% efficiency
<b>Cabinet</b>	Standard Tower Only. Please specify dimensions in cm (H x W x D) and weight
<b>MISC.</b>	Minimum 2 x USB 3.2 Gen 2 (10GB) ports , 1 x USB 3.2 Type-C Gen 2x2 (20GB) and 2 x USB 3.2 Type-C Gen 2 (10GB) ports, 1x RJ45 Port , 2 x Display Port, Slots : Full-height Gen5 PCIe x16 slot , Full-height Gen3 PCIe x4 slot ,Full-height Gen 4 PCIe x4
<b>Audio:</b>	Audio: 1 x 3.5mm headphone/microphone combo jack / Universal audio port Integrated audio with internal speakers in the cabinet
<b>Keyboard</b>	Same OEM Standard USB Keyboard
<b>Mouse</b>	Same OEM Standard USB Optical Scroll
<b>Operating System support</b>	Windows 10/11 Unix, Linux/ fedora Ubuntu etc. And must support Dual boot with windows10/11 and Ubuntu 20 or higher
<b>Pre-Installed OS</b>	Windows 11 Professional Preloaded Factory Pre-loaded / Pre-installed Windows 11 Professional Operating System. OEM letter confirming that Operating system is pre-loaded / pre- installed from OEM factory and is genuine.
<b>Others</b>	Drivers to be provided and all drivers of supported operating systems must available in public domain for free download

<b>Power Cable</b>	Required power cable for connecting. PC and monitor with <b>6 Amp Indian type plug Only</b>
<b>Monitor</b>	Minimum Screen Size: 21.5 inches or higher Resolution: FHD (1920x1080) Panel Type: IPS/TN/VA Monitor Stand : Height Adjustable Monitor Power supply must integrate with the monitor, without any external power adaptor. Monitor regulatory certification : TCO 9 and Energy Star 8.0 by the same OEM
<b>Additional Features</b>	Security: Integrated Hardware TPM 2.0 in the motherboard . Motherboard make from the same Workstation OEM (OEM logo must be embossed in the motherboard), Chassis must comply with chassis intrusion switch / sensor. Integrated Hardware Diagnostics software (same Workstation OEM make, any 3rd party software will not accept) in the BIOS. System must be capable for 64-bit operating system (Microsoft Windows and Ubuntu / Redhat / Suse Linux)
<b>Warranty</b>	3-year (3-3-3) onsite warranty and service including monitor, 3 years of parts, labour and on-site repair , Product serial number and warranty information should be available in public domain
<b>Certification</b>	ISO 9001, 14001, ISO 27001 for OEM, Energy star 7.1, EPEAT India Certified, TCO, ROHS and UL certificate.
<b>Quoted Workstation model Regulatory Certifications</b>	FCC, UL, CE, Energy Star 8.0 , Epeat India Gold , Windows 11 and Ubuntu / Redhat / Suse Linux certification for the quoted Workstation Model.
<b>OEM criteria</b>	OEM Must be ISO 27001,90001,14001 certified .Minimum 10 Years presence in India . Service request would be placed directly with the Workstation OEM for the duration of warranty. OEM Toll free service phone no, Email ID and chat option must be required along with the bid offering .

**SECTION VI - TECHNICAL  
SPECIFICATIONS**

**Mobile Workstation 5Nos**

<b>Features</b>	<b>Minimum Requirements</b>
<b>Processor</b>	Intel Core Ultra 5 135H or latest Processor
<b>Chipset</b>	Intel make chipset
<b>RAM</b>	64 GB: (2 x 32 GB) DDR5, 5600 MT/s, non-ECC, Two DIMM slots
<b>HDD</b>	1 TB PCIe-NVME SSD
<b>Display</b>	15.6" (inch) 15.6" , 1920x1080, 60Hz, 250 nits, FHD HDR RGB Camera.
<b>Input devices</b>	Spill Resistant Premium Keyboard ,Touch pad (mouse pointer control)
<b>Audio</b>	Dual stereo speakers
<b>Communications</b>	Intel AX211, 2x2 MIMO, 2400 Mbps,+Bluetooth 5.2
<b>Graphics</b>	NVIDIA RTX 1000 Ada Generation, 6 GB GDDR6
<b>Ports</b>	Minimum 2 x Thunderbolt 4 (40 Gbps) with support DisplayPort /USB Type-C/USB4 and charging . 2 x USB 3.2 Gen 1 port 1x HDMI 2.1 port 1 x Universal audio port 1 x RJ45 Ethernet port, 1 x MicroSD-card slot and 1 x physical security cable lock slot.
<b>Power</b>	Long Life 6-cell 90 Wh Li-ion polymer Battery with fast charge & minimum 65 Watt AC Adapter
<b>Operating System</b>	Factory Pre-loaded / Pre-installed Windows 11 Professional Operating System. OEM letter confirming that Operating system is pre-loaded / pre-installed from OEM factory and is genuine.
<b>Regulatory and Environmental Compliance</b>	FCC, UL,CE, Energy Star 8.0, Windows 11 and Ubuntu / Red hat Linux , ROHS, Epeat India Gold registered .
<b>Warranty</b>	03 years comprehensive onsite warranty (including 3 years on battery)
<b>BIOS</b>	BIOS of the Workstation to have tool for Enhanced security features like self healing, regular checks.
<b>Laptop Bags</b>	Bidder shall provide superior Quality Executive Laptop Bag or Backpack Bag for each Laptop and shall give undertaking while submitting the bid document.
<b>Additional Features:</b>	Security: Integrated Hardware TPM 2.0 in the motherboard . Motherboard make from the same Laptop OEM (OEM logo must be embossed in the motherboard), Diagnostics software (same Laptop OEM make, any 3rd party software will not accept) in the BIOS. System must be capable for 64-bit operating system (Microsoft Windows and Ubuntu / Red hat / Suse Linux)
<b>Warranty:</b>	03 years comprehensive onsite warranty (including 3 years on battery) (OEM supplied mobile workstation model warranty must be visible in the OEM website in respect to each product serial number).
<b>Laptop OEM criteria</b>	OEM Must ISO 27001,90001,14001 certified .Minimum 10 Years presence in India . Service request would be placed directly with the Workstation OEM for the duration of warranty. OEM Toll free service phone no, Email ID and chat option must be required along with the bid offering .

**Bidders are requested to quote for both the options as per option given below**

Desktop /Workstation 100Nos **Option 1**

Desktop with Core i5	
Features	Minimum Requirement
<b>Processor</b>	CPU: Minimum Intel Core i5-14500 or higher processor Cores/Threads: 14/20 or higher, Base Clock Speed: 1.90 GHz or higher ,Max Turbo Boost Speed: 5.00 GHz or higher, Cache: 24 MB Intel Smart Cache or higher (must supports both 32bit and 64 bit OS and application)
<b>Motherboard</b>	Intel W680 or latest series processor Compatible with processor OEM mother board with OEM/ODM's LOGO must be embossed on it <b>(No sticker/No print/No Paint)</b>
<b>Ram</b>	16GB (1x16GB) DDR5 4400 ECC or better (expandable up to 128 GB or more) with at least [4 DIMM Socket]
<b>Hard Disk Drive</b>	512GB PCIe M.2 NVMe Solid State Drive (SSD) or better
<b>Lan Card</b>	Ethernet: 1 x Gigabit Ethernet port or better
<b>Dedicated Graphic Card</b>	Dedicated GPU: NVIDIA T1000 <b>8GB</b> , GDDR6 or higher with required connecting cable for monitor connectivity
<b>SMPS</b>	Minimum 850W internal power supply compatible with the system preferred with Standard 24+4 pin connector only. It is desirable to have the option to fit a Standard size SMPS(W 15 cm, H 8.5 cm, D 14 cm) within the cabinet. Specify SMPS Dimension in cm with 80% - 95% efficiency
<b>Cabinet</b>	Standard Tower Only. Please specify dimensions in cm (H x W x D) and weight
<b>MISC.</b>	Minimum 2 x USB 3.2 Gen 2 (10GB) ports , 1 x USB 3.2 Type-C Gen 2x2 (20GB) and 2 x USB 3.2 Type-C Gen 2 (10GB) ports, 1x RJ45 Port , 2 x Display Port, Slots : Full-height Gen5 PCIe x16 slot , Full-height Gen3 PCIe x4 slot ,Full-height Gen 4 PCIe x4
<b>Audio:</b>	Audio: 1 x 3.5mm headphone/microphone combo jack / Universal audio port
<b>Keyboard</b>	Integrated audio with internal speakers in the cabinet
<b>Mouse</b>	Same OEM Standard USB Keyboard
<b>Operating System support</b>	Same OEM Standard USB Optical Scroll
<b>Operating System support</b>	Windows 10/11 Unix, Linux/ fedora Ubuntu etc. And must support Dual boot with windows10/11 and Ubuntu 20 or higher
<b>Pre-Installed OS</b>	Windows 11 Professional Preloaded
<b>Pre-Installed OS</b>	Factory Pre-loaded / Pre-installed Windows 11 Professional Operating System. OEM letter confirming that Operating system is pre-loaded / pre- installed from OEM factory and is genuine.

<b>Others</b>	Drivers to be provided and all drivers of supported operating systems must available in public domain for free download
<b>Power Cable</b>	Required power cable for connecting. PC and monitor with <b>6 Amp Indian type plug Only</b>
<b>Monitor</b>	Minimum Screen Size: 21.5 inches or higher Resolution: FHD (1920x1080) Panel Type: IPS/TN/VA Monitor Stand : Height Adjustable Monitor Power supply must integrate with the monitor, without any external power adaptor. Monitor regulatory certification : TCO 9 and Energy Star 8.0 by the same OEM
<b>Additional Features</b>	Security: Integrated Hardware TPM 2.0 in the motherboard Motherboard make from the same Workstation OEM (OEM logo must be embossed in the motherboard), Chassis must comply with chassis intrusion switch / sensor. Integrated Hardware Diagnostics software (same Workstation OEM make, any 3rd party software will not accept) in the BIOS. System must be capable for 64-bit operating system (Microsoft Windows and Ubuntu / Redhat / Suse Linux)
<b>Warranty</b>	3-year (3-3-3) onsite warranty and service including monitor, 3 years of parts, labour and on-site repair , Product serial number and warranty information should be available in public domain
<b>Certification</b>	ISO 9001, 14001, ISO 27001 for OEM, Energy star 7.1, EPEAT India Certified, TCO, ROHS and UL certificate.
<b>Quoted Workstation model Regulatory Certifications</b>	FCC, UL, CE, Energy Star 8.0 , Epeat India Gold , Windows 11 and Ubuntu / Redhat / Suse Linux certification for the quoted Workstation Model.
<b>OEM criteria</b>	OEM Must be ISO 27001,90001,14001 certified .Minimum 10 Years presence in India . Service request would be placed directly with the Workstation OEM for the duration of warranty. OEM Toll free service phone no, Email ID and chat option must be required along with the bid offering .

**Desktop /Workstation 100Nos Option2**

<b>Desktop with Core i5</b>	
<b>Features</b>	<b>Minimum Requirement</b>
<b>Processor</b>	CPU: Minimum Intel Core i5-14500 or higher processor Cores/Threads: 14/20 or higher, Base Clock Speed: 1.90 GHz or higher ,Max Turbo Boost Speed: 5.00 GHz or higher, Cache: 24 MB Intel Smart Cache or higher (must supports both 32bit and 64 bit OS and application)
<b>Motherboard</b>	Intel W680 or latest series processor Compatible with processor OEM mother board with OEM/ODM's LOGO must be embossed on it (No sticker/No print/No Paint)
<b>Ram</b>	16GB (1x16GB) DDR5 4400 ECC or better (expandable up to 128 GB or more) with at least [4 DIMM Socket]
<b>Hard Disk Drive</b>	512GB PCIe M.2 NVMe Solid State Drive (SSD) or better



<b>Lan Card</b>	Ethernet: 1 x Gigabit Ethernet port or better
<b>Dedicated Graphic Card</b>	Dedicated GPU: NVIDIA T400 4GB GDDR6 or higher with required connecting cable for monitor connectivity
<b>SMPS</b>	Minimum 450W internal power supply compatible with the system preferred with Standard 24+4 pin connector only. It is desirable to have the option to fit a Standard size SMPS(W 15 cm, H 8.5 cm, D 14 cm) within the cabinet. Specify SMPS Dimension in cm with 80% - 95% efficiency
<b>Cabinet</b>	Standard Tower Only. Please specify dimensions in cm (H x W x D) and weight
<b>MISC.</b>	Minimum 2 x USB 3.2 Gen 2 (10GB) ports , 1 x USB 3.2 Type-C Gen 2x2 (20GB) and 2 x USB 3.2 Type-C Gen 2 (10GB) ports, 1x RJ45 Port , 2 x Display Port, Slots : Full-height Gen5 PCIe x16 slot , Full-height Gen3 PCIe x4 slot ,Full-height Gen 4 PCIe x4
<b>Audio:</b>	Integrated audio with internal speakers in the cabinet
<b>Keyboard</b>	Same OEM Standard USB Keyboard
<b>Mouse</b>	Same OEM Standard USB Optical Scroll
<b>Operating System support</b>	Windows 10/11 Unix, Linux/ fedora Ubuntu etc. And must support Dual boot with windows10/11 and Ubuntu 20 or higher
<b>Pre-Installed OS</b>	Windows 11 Professional Preloaded
	Factory Pre-loaded / Pre-installed Windows 11 Operating System. OEM letter confirming that Operating system is pre-loaded / pre- installed from OEM factory and is genuine.
<b>Others</b>	Drivers to be provided and all drivers of supported operating systems must available in public domain for free download
<b>Power Cable</b>	Required power cable for connecting. PC and monitor with 6 Amp Indian type plug Only
<b>Monitor</b>	Minimum Screen Size: 21.5 inches or higher Resolution: FHD (1920x1080) Panel Type: IPS/TN/VA Monitor Stand : Height Adjustable Monitor Power supply must integrate with the monitor, without any external power adaptor. Monitor regulatory certification : TCO 9 and Energy Star 8.0 by the same OEM
<b>Additional Features</b>	Security: Integrated Hardware TPM 2.0 in the motherboard Motherboard make from the same Workstation OEM (OEM logo must be embossed in the motherboard), Chassis must comply with chassis intrusion switch / sensor. Integrated Hardware Diagnostics software (same Workstation OEM make, any 3rd party software will not accept) in the BIOS. System must be capable for 64-bit operating system (Microsoft Windows and Ubuntu / Redhat / Suse Linux)
<b>Warranty</b>	3-year (3-3-3) onsite warranty and service including monitor, 3 years of parts, labour and on-site repair , Product serial number and warranty information should be available in public domain

<b>Certification</b>	ISO 9001, 14001, ISO 27001 for OEM, Energy star 7.1, EPEAT India Certified, TCO, ROHS and UL certificate.
<b>Quoted Workstation model Regulatory Certifications</b>	FCC, UL, CE, Energy Star 8.0 , Epeat India Gold , Windows 11 and Ubuntu / Redhat / Suse Linux certification for the quoted Workstation Model.
<b>OEM criteria</b>	OEM Must be ISO 27001,90001,14001 certified .Minimum 10 Years presence in India . Service request would be placed directly with the Workstation OEM for the duration of warranty. OEM Toll free service phone no, Email ID and chat option must be required along with the bid offering .

### High-end Desktop 10Nos Option 1

<b>Desktop/Workstation with Core i9</b>	
<b>Features</b>	<b>Minimum Requirement</b>
<b>Processor</b>	CPU: Minimum Intel Core i9-14900 or higher processor <b>Cores/Threads:</b> 24/32 or higher, Base <b>Clock Speed:</b> 2.00 GHz or higher , <b>Max Turbo Boost Speed:</b> 5.80 GHz or higher, <b>Cache:</b> 36 MB Intel Smart Cache or higher (must supports both 32bit and 64 bit OS and application)
<b>Motherboard</b>	Intel W680 or latest series processor Compatible with processor OEM mother board with OEM/ODM's LOGO must be embossed on it <b>(No sticker/No print/No Paint)</b>
<b>Ram</b>	64GB (2x32GB) DDR5 4400 ECC or better (expandable up to 128 GB or more) with at least [4 DIMM Socket]
<b>Hard Disk Drive</b>	1TB PCIe M.2 NVMe Solid State Drive (SSD) or better
<b>Lan Card</b>	Ethernet: 1 x Gigabit Ethernet port or better
<b>Dedicated Graphic Card</b>	Dedicated GPU: NVIDIA RTX 4000 Ada Generation, <b>20GB</b> GDDR6, with required connecting cable for above monitor connectivity
<b>SMPS</b>	Minimum 850W or higher internal power supply compatible with the system preferred with Standard 24+4 pin connector . It is desirable to have the option to fit a Standard size SMPS(W 15 cm, H 8.5 cm,D 14 cm) within the cabinet. Specify SMPS Dimension in cm with 80% - 95% efficiency
<b>Cabinet</b>	Standard Tower Only. Please specify dimensions in cm (H x W x D) and weight
<b>MISC.</b>	Minimum 2 x USB 3.2 Gen 2 (10GB) ports , 1 x USB 3.2 Type-C Gen 2x2 (20GB) and 2 x USB 3.2 Type-C Gen 2 (10GB) ports, 1x RJ45 Port , 2 x Display Port, Slots : Full-height Gen5 PCIe x16 slot , Full-height Gen3 PCIe x4 slot ,Full-height Gen 4 PCIe x4
<b>Audio:</b>	Audio: 1 x 3.5mm headphone/microphone combo jack / Universal audio port
	Integrated audio with internal speakers in the cabinet

<b>Keyboard</b>	Same OEM Standard USB Keyboard
<b>Mouse</b>	Same OEM Standard USB Optical Scroll
<b>Operating System support</b>	Windows 10/11 Unix, Linux/ fedora Ubuntu etc. And must support Dual boot with windows10/11 and Ubuntu 20 or higher
<b>Pre-Installed OS</b>	Windows 11 Professional Preloaded
	Factory Pre-loaded / Pre-installed Windows 11 Professional Operating System. OEM letter confirming that Operating system is pre-loaded / pre- installed from OEM factory and is genuine.
<b>Others</b>	Drivers to be provided and all drivers of supported operating systems must available in public domain for free download
<b>Power Cable</b>	Required power cable for connecting. PC and monitor with <b>6 Amp Indian type plug Only</b>
<b>Monitor</b>	Minimum Screen Size: 21.5 inches or higher Resolution: FHD (1920x1080) Panel Type: IPS/TN/VA Monitor Stand : Height Adjustable Monitor Power supply must integrate with the monitor, without any external power adaptor. Monitor regulatory certification : TCO 9 and Energy Star 8.0 by the same OEM
<b>Additional Features</b>	Security: Integrated Hardware TPM 2.0 in the motherboard . Motherboard make from the same Workstation OEM (OEM logo must be embossed in the motherboard), Chassis must comply with chassis intrusion switch / sensor. Integrated Hardware Diagnostics software (same Workstation OEM make, any 3rd party software will not accept) in the BIOS. System must be capable for 64-bit operating system (Microsoft Windows and Ubuntu / Redhat / Suse Linux)
<b>Warranty</b>	3-year (3-3-3) onsite warranty and service including monitor, 3 years of parts, labour and on-site repair , Product serial number and warranty information should be available in public domain
<b>Certification</b>	ISO 9001, 14001, ISO 27001 for OEM, Energy star 7.1, EPEAT India Certified, TCO, ROHS and UL certificate.
<b>Quoted Workstation model Regulatory Certifications</b>	FCC, UL, CE, Energy Star 8.0 , Epeat India Gold , Windows 11 and Ubuntu / Redhat / Suse Linux certification for the quoted Workstation Model.
<b>OEM criteria</b>	OEM Must be ISO 27001,90001,14001 certified .Minimum 10 Years presence in India . Service request would be placed directly with the Workstation OEM for the duration of warranty. OEM Toll free service phone no, Email ID and chat option must be required along with the bid offering .

### High-end Desktop 10Nos Option 2

Desktop/Workstation with Core i9	
Features	Minimum Requirement

<b>Processor</b>	CPU: Minimum Intel Core i9-14900 or higher processor <b>Cores/Threads:</b> 24/32 or higher, Base <b>Clock Speed:</b> 2.00 GHz or higher, <b>Max Turbo Boost Speed:</b> 5.80 GHz or higher, <b>Cache:</b> 36 MB Intel Smart Cache or higher (must supports both 32bit and 64 bit OS and application)
<b>Motherboard</b>	Intel W680 or latest series processor Compatible with processor OEM mother board with OEM/ODM's LOGO must be embossed on it ( <b>No sticker/No print/No Paint</b> )
<b>Ram</b>	64GB (2x32GB) DDR5 4400 ECC or better (expandable up to 128 GB or more) with at least [4 DIMM Socket]
<b>Hard Disk Drive</b>	1TB PCIe M.2 NVMe Solid State Drive (SSD) or better
<b>Lan Card</b>	Ethernet: 1 x Gigabit Ethernet port or better
<b>Dedicated Graphic Card</b>	Dedicated GPU: NVIDIA, <b>12GB</b> GDDR6, with required connecting cable for above monitor connectivity
<b>SMPS</b>	Minimum 850W or higher internal power supply compatible with the system preferred with Standard 24+4 pin connector. It is desirable to have the option to fit a Standard size SMPS(W 15 cm, H 8.5 cm,D 14 cm) within the cabinet. Specify SMPS Dimension in cm with 80% - 95% efficiency
<b>Cabinet</b>	Standard Tower Only. Please specify dimensions in cm (H x W x D) and weight
<b>MISC.</b>	Minimum 2 x USB 3.2 Gen 2 (10GB) ports, 1 x USB 3.2 Type-C Gen 2x2 (20GB) and 2 x USB 3.2 Type-C Gen 2 (10GB) ports, 1x RJ45 Port, 2 x Display Port, Slots : Full-height Gen5 PCIe x16 slot, Full-height Gen3 PCIe x4 slot, Full-height Gen 4 PCIe x4
<b>Audio:</b>	Audio: 1 x 3.5mm headphone/microphone combo jack / Universal audio port Integrated audio with internal speakers in the cabinet
<b>Keyboard</b>	Same OEM Standard USB Keyboard
<b>Mouse</b>	Same OEM Standard USB Optical Scroll
<b>Operating System support</b>	Windows 10/11 Unix, Linux/ fedora Ubuntu etc. And must support Dual boot with windows10/11 and Ubuntu 20 or higher
<b>Pre-Installed OS</b>	Windows 11 Professional Preloaded Factory Pre-loaded / Pre-installed Windows 11 Professional Operating System. OEM letter confirming that Operating system is pre-loaded / pre- installed from OEM factory and is genuine.
<b>Others</b>	Drivers to be provided and all drivers of supported operating systems must available in public domain for free download
<b>Power Cable</b>	Required power cable for connecting. PC and monitor with <b>6 Amp Indian type plug Only</b>
<b>Monitor</b>	Minimum Screen Size: 21.5 inches or higher Resolution: FHD (1920x1080) Panel Type: IPS/TN/VA Monitor Stand : Height Adjustable Monitor Power supply must integrate with the monitor, without any external power adaptor. Monitor regulatory certification : TCO 9 and Energy Star 8.0 by the same OEM

<b>Additional Features</b>	Security: Integrated Hardware TPM 2.0 in the motherboard . Motherboard make from the same Workstation OEM (OEM logo must be embossed in the motherboard), Chassis must comply with chassis intrusion switch / sensor. Integrated Hardware Diagnostics software (same Workstation OEM make, any 3rd party software will not accept) in the BIOS. System must be capable for 64-bit operating system (Microsoft Windows and Ubuntu / Redhat / Suse Linux)
<b>Warranty</b>	3-year (3-3-3) onsite warranty and service including monitor, 3 years of parts, labour and on-site repair , Product serial number and warranty information should be available in public domain
<b>Certification</b>	ISO 9001, 14001, ISO 27001 for OEM, Energy star 7.1, EPEAT India Certified, TCO, ROHS and UL certificate.
<b>Quoted Workstation model Regulatory Certifications</b>	FCC, UL, CE, Energy Star 8.0 , Epeat India Gold , Windows 11 and Ubuntu / Redhat / Suse Linux certification for the quoted Workstation Model.
<b>OEM criteria</b>	OEM Must be ISO 27001,90001,14001 certified .Minimum 10 Years presence in India . Service request would be placed directly with the Workstation OEM for the duration of warranty. OEM Toll free service phone no, Email ID and chat option must be required along with the bid offering .

#### Mobile Workstation 5Nos

Features	Minimum Requirements
<b>Processor</b>	Intel Core Ultra 5 135H or latest Processor
<b>Chipset</b>	Intel make chipset
<b>RAM</b>	64 GB: (2 x 32 GB) DDR5, 5600 MT/s, non-ECC, Two DIMM slots
<b>HDD</b>	1 TB PCIe-NVME SSD
<b>Display</b>	15.6" (inch) 15.6" , 1920x1080, 60Hz, 250 nits, FHD HDR RGB Camera.
<b>Input devices</b>	Spill Resistant Premium Keyboard ,Touch pad (mouse pointer control)
<b>Audio</b>	Dual stereo speakers
<b>Communications</b>	Intel AX211, 2x2 MIMO, 2400 Mbps,+Bluetooth 5.2
<b>Graphics</b>	NVIDIA RTX 1000 Ada Generation, 6 GB GDDR6
<b>Ports</b>	Minimum 2 x Thunderbolt 4 (40 Gbps) with support DisplayPort /USB Type-C/USB4 and charging . 2 x USB 3.2 Gen 1 port 1x HDMI 2.1 port 1 x Universal audio port 1 x RJ45 Ethernet port, 1 x MicroSD-card slot and 1 x physical security cable lock slot.
<b>Power</b>	Long Life 6-cell 90 Wh Li-ion polymer Battery with fast charge & minimum 65 Watt AC Adapter
<b>Operating System</b>	Factory Pre-loaded / Pre-installed Windows 11 Professional Operating System. OEM letter confirming that Operating system is pre-loaded / pre-installed from OEM factory and is genuine.
<b>Regulatory and Environmental Compliance</b>	FCC, UL,CE, Energy Star 8.0, Windows 11 and Ubuntu / Red hat Linux , ROHS, Epeat India Gold registered .
<b>Warranty</b>	03 years comprehensive onsite warranty (including 3 years on battery)

<b>BIOS</b>	BIOS of the Workstation to have tool for Enhanced security features like self healing, regular checks.
<b>Laptop Bags</b>	Bidder shall provide superior Quality Executive Laptop Bag or Backpack Bag for each Laptop and shall give undertaking while submitting the bid document.
<b>Additional Features:</b>	Security: Integrated Hardware TPM 2.0 in the motherboard . Motherboard make from the same Laptop OEM (OEM logo must be embossed in the motherboard), Diagnostics software (same Laptop OEM make, any 3rd party software will not accept) in the BIOS. System must be capable for 64-bit operating system (Microsoft Windows and Ubuntu / Red hat / Suse Linux)
<b>Warranty:</b>	03 years comprehensive onsite warranty (including 3 years on battery) (OEM supplied mobile workstation model warranty must be visible in the OEM website in respect to each product serial number).
<b>Laptop OEM criteria</b>	OEM Must ISO 27001,90001,14001 certified .Minimum 10 Years presence in India . Service request would be placed directly with the Workstation OEM for the duration of warranty. OEM Toll free service phone no, Email ID and chat option must be required along with the bid offering .

**Bidders are requested to quote for both the options as per option given in attached Annexure-II**