

Annexure 16 – Technical Specifications of Computer Hardware, Anti-Virus Software and Peripherals for FY 2023-24.

ANNEXURE - 16A

Desktop TYPE A PC	Complied	
	Y/ N	If no. remarks
HARDWARE: Make & Model of Desktop PC – _____		
FORM FACTOR – Tower /SFF		
CPU - Intel Core i7 - 11700 Series Processor / AMD Ryzen 7 5750G Series Processor		
FREQUENCY - Base frequency @ 2.5 GHz or higher and turbo frequency @ 4.6 Ghz or higher		
CORE - 8 cores or higher		
CHIPSET - Any compatible Intel/AMD Chipset meeting the specification below. Motherboard should be of OEM with OEM logo embossed on it (stickering not allowed)		
BIOS - Standard BIOS		
MEMORY - 16 GB (1x16GB) DDR4 2666 / 2933 MHz or higher		
MEMORY EXPANDABILITY - Expandable to Min. 64 GB		
MEMORY SLOT - Min. 2 Nos.		
CD Drive - SATA Min. 8x DVD+/- RW with dual layer write capability		
SSD - 1 TB Solid State Drive (SSD) or equivalent or higher		
NIC - Integrated 10/100/1000 Mb/s PCI Bus Fast Ethernet adapter with Wake on LAN		
GRAPHICS - Integrated Intel HD graphics with shared RAM or AMD Radeon HD graphics or equivalent or higher		
AUDIO - High Definition Audio or equivalent with Internal / External Speaker		
POWER SUPPLY - Min. 180W 100-240VAC 50-60Hz		
EXPANSION SLOTS - Min. One PCI Express x16, Min. One PCIe x1 / PCIe / PCI.		
PORTS: Front - Min. 4 USB port, Universal Audio Jack. Rear - Min. 2 USB port, Ethernet (RJ 45), 1 no. of VGA + 1 no. of HDMI / DVI Port / Display Port, Line in, Line out. Note: Total USB Ports 6 no's out of which Min 2 USB Port with 3.2 required.		
TOTAL DRIVE BAYS - Min. 2 Bays		
MONITOR - Min. 23.8" Wide TFT LED Colour Monitor (Make – Desktop OEM) with a compliant standard of TCO 8.0		
KEYBOARD - 104 Keys USB Heavy Duty Keyboard (Make - OEM)		
POINTING DEVICE - Two Buttons with scroll button USB Mouse with PAD (Make - OEM)		
SOFTWARE:		
OS CERTIFICATION - Windows 11 Pro		
SECURITY - Boot Setup Password & Discrete TPM 2.0		
MANAGEABILITY - Failure Notification for Memory & HDD		
COMPLIANCE (Latest) - Safety - Any one or more EPEAT Certified rating, Energy Star 7.0 compliant, Green guard, RoHS & Green Peace Rating of 4 or above		
OPERATING SYSTEM – Windows 11 64-bit Pro preloaded down gradable to Windows 10 64-bit Pro with CD, Drivers CD and Recovery CD. Note: In future if there is any requirement to downgrade the Desktop PC from Windows 11 to Windows 10, Vendor has to depute engineers to downgrade these Desktop PC at its respective locations without any additional cost to the Bank.		
General : a) Recovery Partition/Recovery media with driver s/w should be available with each system. b) OEM Logo should be embossed in the motherboard, HDD & SSD. c) In case of any kind of replacement required with storage devices the same shall not be handed over to any service provider/partners in any case. The same will be in possession of Bank only.		

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Annexure 16B

Desktop Type B PC without Monitor	Complied	
	Y/ N	If no. remarks
HARDWARE: Make & Model of Desktop PC – _____		
FORM FACTOR – Tower /SFF		
CPU - Intel Core i5 - 12400 Series Processor / AMD Ryzen 5 Pro 5650G Series Processor		
FREQUENCY - Base frequency @ 2.5 GHz or higher and turbo frequency @ 4.4 Ghz or higher		
CORE - 6 cores or higher		
CHIPSET - Any compatible Intel / AMD Chipset meeting the specification below. Motherboard should be of OEM with OEM logo embossed on it (stickering not allowed)		
BIOS - Standard BIOS		
MEMORY - 16 GB (1x16GB) DDR4 2666 / 2933 MHz or higher		
MEMORY EXPANDABILITY - Expandable to Min 64 GB		
MEMORY SLOT - Min. 2 Nos.		
CD Drive - SATA Min. 8x DVD+/- RW with dual layer write capability		
SSD - 512 GB Solid State Drive (SSD) or higher		
NIC - Integrated 10/100/1000 Mb/s PCI Bus Fast Ethernet adapter with Wake on LAN		
GRAPHICS - Integrated Intel HD graphics with shared RAM or AMD Radeon Vega 11 HD graphics or equivalent or higher.		
AUDIO - High Definition Audio or equivalent with Internal / External Speaker		
POWER SUPPLY - Min 180W 100-240VAC 50-60Hz		
EXPANSION SLOTS - Min. One PCI Express x16, Min. One PCIe x1 / PCIe / PCI.		
PORTS: Front - Min. 4 USB port, Universal Audio Jack. Rear - Min. 2 USB port, Ethernet (RJ 45), 1 no. of VGA + 1 no. of HDMI / DVI Port / Display Port, Line in, Line out. Note: Total USB Ports 6 no's out of which Min 2 USB Port with 3.2 required.		
TOTAL DRIVE BAYS - Min. 2 Bays		
KEYBOARD - 104 Keys USB Heavy Duty Keyboard (Make - OEM)		
POINTING DEVICE - Two Buttons with scroll button USB Mouse with PAD (Make - OEM)		
SOFTWARE:		
OS CERTIFICATION - Windows 11 Pro		
SECURITY - Boot Setup Password & TPM 2.0		
MANAGEABILITY - Pre-Failure Notification for Memory & HDD		
COMPLIANCE (Latest) - Safety - Any one or more EPEAT Certified rating, Energy Star 7.0 compliant, Green guard, RoHS & Green Peace Rating of 4 or above		
OPERATING SYSTEM – Windows 11 64-bit Pro preloaded down gradable to Windows 10 64-bit Pro with CD, Drivers CD and Recovery CD. Note: In future if there is any requirement to downgrade the Desktop PC from Windows 11 to Windows 10, Vendor has to depute engineers to downgrade these Desktop PC at its respective locations without any additional cost to the Bank.		
General : a) Recovery Partition/Recovery media with driver s/w should be available with each system. b) OEM Logo should be embossed in the motherboard, HDD & SSD. c) In case of any kind of replacement required with storage devices the same shall not be handed over to any service provider/partners in any case. The same will be in possession of Bank only.		

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Annexure 16C

Desktop Type C with Monitor	Complied	
	Y/ N	If no. remarks
HARDWARE: Make & Model of Desktop PC – _____		
FORM FACTOR – Tower /SFF		
CPU - Intel Core i3 - 12100 Series Processor / AMD Ryzen 3 Pro 5350G Series Processor		
FREQUENCY - Base frequency @ 2.2 GHz or higher and turbo frequency @ 4.10 Ghz or higher		
CORE - 4 cores or higher		
CHIPSET - Any compatible Intel / AMD Chipset meeting the specification below. Motherboard should be of OEM with OEM logo embossed on it (stickering not allowed)		
BIOS - Standard BIOS		
MEMORY - 8 GB (1x8GB) DDR4 2666 / 2933 MHz or higher		
MEMORY EXPANDABILITY - Expandable to Min 32 GB		
MEMORY SLOT - Min. 2 Nos.		
CD Drive - SATA Min. 8 x DVD+/- RW with dual layer write capability		
SSD - 256 GB Solid State Drive (SSD) or higher		
NIC - Integrated 10/100/1000 Mb/s PCI Bus Fast Ethernet adapter with Wake on LAN		
GRAPHICS - Integrated Intel HD graphics with shared RAM or AMD Radeon Vega 11 HD graphics or equivalent or higher.		
AUDIO - High Definition Audio or equivalent with Internal / External Speaker		
POWER SUPPLY - Min 180W 100-240VAC 50-60Hz		
EXPANSION SLOTS - Min. One PCI Express x16, Min. One PCIe x1 / PCIe / PCI.		
PORTS: Front - Min. 4 USB port, Universal Audio Jack. Rear - Min. 2 USB port, Ethernet (RJ 45), 1 no. of VGA + 1 no. of HDMI / DVI Port / Display Port, Line in, Line out. Note: Total USB Ports 6 no's out of which Min 2 USB Port with 3.2 required.		
TOTAL DRIVE BAYS - Min. 2 Bays		
MONITOR - Min. 19.5" Wide TFT LED Colour Monitor (Make – Desktop OEM) with a compliant standard of TCO 8.0		
KEYBOARD - 104 Keys USB Heavy Duty Keyboard (Make - OEM)		
POINTING DEVICE - Two Buttons with scroll button USB Mouse with PAD (Make - OEM)		
SOFTWARE:		
OS CERTIFICATION - Windows 11 Pro		
SECURITY - Boot Setup Password & TPM 2.0		
MANAGEABILITY - Pre-Failure Notification for Memory & HDD		
COMPLIANCE (Latest) - Safety - Any one or more EPEAT Certified rating, Energy Star 7.0 compliant, Green guard, RoHS & Green Peace Rating of 4 or above		
OPERATING SYSTEM – Windows 11 64-bit Pro preloaded down gradable to Windows 10 64-bit Pro with CD, Drivers CD and Recovery CD. Note: In future if there is any requirement to downgrade the Desktop PC from Windows 11 to Windows 10, Vendor has to depute engineers to downgrade these Desktop PC at its respective locations without any additional cost to the Bank.		
General : a) Recovery Partition/Recovery media with driver s/w should be available with each system. b) OEM Logo should be embossed in the motherboard, HDD & SSD. c) In case of any kind of replacement required with storage devices the same shall not be handed over to any service provider/partners in any case. The same will be in possession of Bank only.		

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Annexure 16D

Desktop Type C without Monitor	Complied	
	Y/ N	If no. remarks
HARDWARE: Make & Model of Desktop PC – _____		
FORM FACTOR – Tower / SFF		
CPU - Intel Core i3 - 12100 Series Processor / AMD Ryzen 3 Pro 5350G Series Processor		
FREQUENCY - Base frequency @ 2.2 GHz or higher and turbo frequency @ 4.1 Ghz or higher		
CORE - 4 cores or higher		
CHIPSET - Any compatible Intel / AMD Chipset meeting the specification below. Motherboard should be of OEM with OEM logo embossed on it (stickering not allowed)		
BIOS - Standard BIOS		
MEMORY - 8 GB (1x8GB) DDR4 2666 / 2933 MHz or higher		
MEMORY EXPANDABILITY - Expandable to Min 32 GB		
MEMORY SLOT - Min. 2 Nos.		
CD Drive - SATA Min. 8x DVD+/- RW with dual layer write capability		
SSD - 256 GB Solid State Drive (SSD) or higher		
NIC - Integrated 10/100/1000 Mb/s PCI Bus Fast Ethernet adapter with Wake on LAN		
GRAPHICS - Integrated Intel HD graphics with shared RAM or AMD Radeon Vega 11 HD graphics or equivalent or higher.		
AUDIO - High Definition Audio or equivalent with Internal / External Speaker		
POWER SUPPLY - Min 180W 100-240VAC 50-60Hz		
EXPANSION SLOTS - Min. One PCI Express x16, Min. One PCIe x1 / PCIe / PCI.		
PORTS: Front - Min. 4 USB port, Universal Audio Jack. Rear - Min. 2 USB port, Ethernet (RJ 45), 1 no. of VGA + 1 no. of HDMI / DVI Port / Display Port, Line in, Line out. Note: Total USB Ports 6 no's out of which Min 2 USB Port with 3.2 required.		
TOTAL DRIVE BAYS - Min. 2 Bays		
KEYBOARD - 104 Keys USB Heavy Duty Keyboard (Make - OEM)		
POINTING DEVICE - Two Buttons with scroll button USB Mouse with PAD (Make - OEM)		
SOFTWARE:		
OS CERTIFICATION - Windows 11 Pro		
SECURITY - Boot Setup Password & TPM 2.0		
MANAGEABILITY - Pre-Failure Notification for Memory & HDD		
COMPLIANCE (Latest) - Safety - Any one or more EPEAT Certified rating, Energy Star 7.0 compliant, Green guard, RoHS & Green Peace Rating of 4 or above		
OPERATING SYSTEM – Windows 11 64-bit Pro preloaded down gradable to Windows 10 64-bit Pro with CD, Drivers CD and Recovery CD. Note: In future if there is any requirement to downgrade the Desktop PC from Windows 11 to Windows 10, Vendor has to depute engineers to downgrade these Desktop PC at its respective locations without any additional cost to the Bank.		
General : a) Recovery Partition/Recovery media with driver s/w should be available with each system. b) OEM Logo should be embossed in the motherboard, HDD & SSD. c) In case of any kind of replacement required with storage devices the same shall not be handed over to any service provider/partners in any case. The same will be in possession of Bank only.		

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Annexure 16E

Workstation PC	Complied	
	Y/ N	If no. remarks
HARDWARE: Make & Model of Desktop PC – _____		
FORM FACTOR – Tower /SFF		
CPU - Intel Xeon W Series Processor with base frequency @ 3.4 GHz or higher and turbo frequency @ 5.0 Ghz or higher		
CORE - 8 cores or higher		
CHIPSET - Any compatible Intel Chipset meeting the specification below.		
BIOS - Standard BIOS		
MEMORY - 16 GB (1x16GB) DDR4 3200 MHz or higher		
MEMORY EXPANDABILITY - Expandable to 64GB		
MEMORY SLOT - Min. 4 Nos.		
CD/DVD Drive - SATA Min. 8x DVD+/- RW		
SSD - Min. 512 GB SSD or higher		
NIC - Integrated 10/100/1000 Mb/s PCI Bus Fast Ethernet adapter with Wake on LAN		
VIDEO CARD - One PCI Express® x16 Gen 3 Graphics card up to 50W (Preferably Nvidia Quadro T600 with 4*mdp or higher)		
AUDIO - High Definition Audio or equivalent with Internal / External Speaker (Make - OEM)		
POWER SUPPLY - Min. 365W 90% efficient PSU (80PLUS Platinum / Gold Certified) Energy Star Compliant		
EXPANSION SLOTS - Min. 1 PCIe x16 Gen3 Slot		
PORTS: Front - Min. 2 USB port, Universal Audio Jack. Rear - Min. 4 USB port, Min 1 Ethernet (RJ 45), 1 VGA Connector, One serial, One Parallel, 2 PS2 (optional), 2 Display Port, 3 SATA 6Gb/s, Universal Audio Jack (Optional). Note: All USB Ports to be provided with 3.0		
TOTAL DRIVE BAYS - Min. 2 Bays		
MONITOR - Min. 23.8" Wide TFT LED Colour Monitor (Make – Desktop OEM) with a compliant standard of TCO 8.0		
KEYBOARD - 104 Keys PS2 / USB Heavy Duty Keyboard (Make - OEM)		
POINTING DEVICE - Two Buttons with scroll button PS2 / USB Mouse with PAD (Make - OEM)		
SOFTWARE:		
OS CERTIFICATION - Windows 11 Pro		
SECURITY - Boot Setup Password & TPM		
MANAGEABILITY - Failure Notification for Memory & HDD		
COMPLIANCE (Latest) - Safety - Any one or more EPEAT Certified rating, Energy Star 7.0 compliant, Green guard, FCC, RoHS & Green Peace Rating of 4 or above		
OPERATING SYSTEM – Windows 11 64-bit Pro preloaded downgradable to Windows 10 64-bit Pro with CD, Drivers CD and Recovery CD. Note: In future if there is any requirement to downgrade the Desktop PC from Windows 11 to Windows 10, Vendor has to depute engineers to downgrade these Desktop PC at its respective locations without any additional cost to the Bank.		
General : a) Recovery Partition/Recovery media with driver s/w should be available with each system. b) OEM Logo should be embossed in the motherboard, HDD & SSD. c) In case of any kind of replacement required with storage devices the same shall not be handed over to any service provider/partners in any case. The same will be in possession of Bank only.		

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Annexure 16F

All in One Desktop PC	Complied	
	Y/ N	If no. remarks
HARDWARE: Make & Model of Desktop PC – _____		
FORM FACTOR - All-in-One		
CPU - Intel 12 th Generation Core i3 Processor @ 2.2 GHz or higher with 4 cores or higher		
CHIPSET - Any compatible Intel / AMD Chipset meeting the specification below. Motherboard should be of OEM with OEM logo embossed on it (stickering not allowed)		
BIOS - Standard BIOS		
MEMORY - 8 GB, DDR4, 2666 MHz or higher		
MEMORY EXPANDABILITY - Expandable to 64 GB		
MEMORY SLOT - Min. 2 Nos.		
SSD – 256 GB SSD or higher		
NIC - Integrated 10/100/1000 Mb/s PCI Bus Fast Ethernet adapter with Wake on LAN		
GRAPHICS - Integrated Graphics		
PORTS: Min 1 x USB Type-C port ; Min 5 x USB Type-A port, Universal Audio Jack; Display Port. Note: Total USB Ports 6 no's out of which Min 3 USB Port with 3.0 required.		
Display - Min. 21.5" FHD (1920 x 1080) Touch, Narrow Bezel, 250 Nits, IPS, Wide Viewing Angle.		
Camera - 2.0 MP Full HD Webcam or above		
OPERATING SYSTEM – Windows 11 64-bit Pro preloaded downgradable to Windows 10 64-bit Pro with CD, Drivers CD and Recovery CD. Note: In future if there is any requirement to downgrade the Desktop PC from Windows 11 to Windows 10, Vendor has to depute engineers to downgrade these Desktop PC at its respective locations without any additional cost to the Bank.		
General : a) Recovery Partition/Recovery media with driver s/w should be available with each system. b) OEM Logo should be embossed in the motherboard, HDD & SSD. c) In case of any kind of replacement required with storage devices the same shall not be handed over to any service provider/partners in any case. The same will be in possession of Bank only.		

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ANNEXURE - 16G

Software Specifications		Complied	
Functional Specifications	Required	Y/ N	If no. remarks
Make & Model			
ANTIVIRUS	Latest desktop / client based version of Antivirus of Bitdefender / Kaspersky / Norton / F-Secure / AVG / AVAST / McAfee / Trend Micro / Quick Heal compatible with Microsoft® Windows® 10, Microsoft® Windows® 8, Microsoft® Windows® 7 (Single Licence per PC for 3 Years with individual serial key and installation CD)		

ANNEXURE - 16H

Monitor Specifications - 21.5 inch category		Complied	
Functional Specifications	Required	Y/ N	If no. remarks
Make & Model			
Monitor	Min. 21.5" Wide TFT LED Colour Monitor (Make – Desktop OEM) with a compliant standard of TCO 8.0		

ANNEXURE - 16I

Desktop PC Memory Module (RAM) - 8 GB DDR4		Complied	
Functional Specifications	Required	Y/ N	If no. remarks
Make & Model			
Memory Module (RAM)	Min. 8 GB DDR4 2666 / 2933 MHz or higher		

Desktop PC Memory Module (RAM) - 16 GB DDR4		Complied	
Functional Specifications	Required	Y/ N	If no. remarks
Make & Model			
Memory Module (RAM)	Min. 16 GB DDR4 2666 / 2933 MHz or higher		

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ANNEXURE - 16J

Mono LaserJet Printer without Networking		Complied	
Make & Model:		Y/ N	If no. remarks
Functions	Printer		
Printing	Mono		
Print speed black (normal, A4)	Min. 28 ppm		
Print quality black (best)	Up to 600 x 600 dpi (1200 dpi effective)		
Paper handling			
Paper handling standard/input	250 Sheet input tray		
Duplex print options	Automatic		
Media sizes supported	A4,Legal Size		
Monthly Print Volume	250 - 2500 pages per month		
Connectivity			
Standard connectivity	Hi-Speed USB 2.0 port		
Compatible operating systems	Microsoft® Windows® 11, Microsoft® Windows® 10		
Compatible Software	Compatible with Finacle		
Cartridge			
Type	Toner cartridge provided with printer should not be a Demo Cartridge		

Mono LaserJet Printer with Networking		Complied	
Make & Model:		Y/ N	If no. remarks
Functions	Printer		
Printing	Mono		
Print speed black (normal, A4)	Min. 38 ppm		
First page out black (A4, ready)	As fast as less than 6.5 sec		
Monthly Print Volume	750 to 4000 pages per month		
Print technology	Laser		
Print quality black (best)	Up to 600 x 600 dpi (1200 dpi effective)		
Paper handling			
Paper handling standard/input	Two trays.one Multipurpose tray of 250-sheet input capacity and one manual feed paper tray of Min. 50 sheet input capacity		
Duplex print options	Automated		
Media sizes supported	A4,Legal Size		
Additional specifications			
Processor speed	Min. 800 Mhz or higher		
Standard memory(min)	Min. 256 MB or Higher		
Connectivity			
Standard connectivity	Hi-Speed USB 2.0 port; 10/100Base-T Ethernet network port		
Compatible operating systems	Microsoft® Windows® 11, Microsoft® Windows® 10		
Compatible Software	Compatible with Finacle		
Cartridge			
Type	Toner cartridge provided with printer should not be a Demo Cartridge		

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Cont. of ANNEXURE – 16J

Color LaserJet Printer		Complied	
Make & Model:			
Functions	Required	Y/ N	If no. remarks
Printing	Color		
Print speed b&w (normal, A4)	Min. 18 ppm		
Print speed color (normal, A4)	Min. 18 ppm		
First Print Speed (Black&White)	13 sec or less		
First Print Speed (Color)	13 sec or less		
Resolution	Up to 600 x 600 dpi (1200 dpi effective)		
Processor speed	Min. 220MHz		
Memory	Min. 256 MB		
Paper Capacity	Min 150 Sheets		
Monthly Print Volume	150 to 2500 pages per month		
Duplex print options	Auto Duplex		
Media sizes supported	A4, Legal Size		
Standard connectivity	Hi-Speed USB 2.0 port; 10/100Base-T Ethernet network port		
Compatible operating systems	Microsoft® Windows® 11, Microsoft® Windows® 10		
Cartridge			
Type	Toner cartridge provided with printer should not be a Demo Cartridge		

ANNEXURE – 16K

Multi-Functional Printer - Black & White		Complied	
Make & Model:			
Functions	Print, Copy, Scan, Fax	Y/ N	If no. remarks
Printing	Mono		
Print speed black (normal, A4)	Min. 38 ppm		
First page out black (A4, ready)	As fast as less than 8 sec		
Monthly Print Volume	500 to 4000 pages per month		
Print technology	Laser		
Print quality black (best)	Up to 600 x 600 dpi (1200 dpi effective)		
Paper handling			
Paper handling standard/input	Two trays. One Multipurpose tray of 250-sheet input capacity and one manual feed paper tray of Min. 100 sheet input capacity		
Duplex print options	Automated		
Media sizes supported	A4, Legal Size		
Additional specifications			
Processor speed	Min. 266 Mhz		
Standard memory(min)	Min. 256 MB		
Scanner Specifications			
Scanning	Color		
Scan type	Flatbed, ADF		
Optical scanning resolution	Up to 600 x 600 dpi (1200 dpi effective)		
Bit depth	24-bit		
Scan speed black (normal)/Color	Min. 20 ppm		

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Auto document feeder capacity	Standard, 50 sheets		
Duplex Scanning	Automated		
File formats	PDF; TIF; BMP; JPG		
Copier Specifications			
Copy speed (black, best quality, A4)	Min 38 cpm		
Copy resolution (black text)	Up to 600 x 600 dpi		
Copier resize	25 to 400%		
Maximum copies	Up to 99 copies		
Duplex Copier	Automated		
Fax Specifications			
Fax speed	33.6 kbps		
A4 pages held in memory	Up to 100 pages		
Resolution (black and white)	Up to 300 x 300 dpi		
Maximum speed dialing numbers	Up to 100 numbers, Auto-redialing - Yes		
Connectivity			
Standard connectivity	Hi-Speed USB 2.0 port; 10/100Base-T Ethernet network port; RJ-11 Telephone port		
Compatible operating systems	Microsoft® Windows® 11, Microsoft® Windows® 10		
Compatible Software	Compatible with Finacle		
Interfaces	RS232/Centronics/USB 2.0		
Noise	less than 64 db		
Cartridge			
Type	Toner cartridge provided with printer should not be a Demo Cartridge		

Annexure 16L

High Speed Mono Laserjet Printer with Networking			Complied	
Make & Model:			(Y/N)	Remarks
Description			(Y/N)	Remarks
Functions	Color scanning, Black-and-White printing, Black-and-White copying			
	It should have Multitasking Capability			
Printing Specifications	Print Speed Black (Normal Quality Mode)	Min 55 PPM		
	First Page Out (B&W)	Max 4 Sec		
	Processor Speed	Min 1.5 Ghz		
	Print Technology	Laser		
	Print Quality, (Resolution)	Min 1200x1200 dpi		
	Min. Monthly Print Volume / Duty Cycle	30,000 pages		
	Duplex Printing	Automatic (Standard)		
Paper Handling / Media	Paper Tray Standard	Standard Multipurpose Tray - 2 / with Bypass		

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	Paper Tray Minimum	4 (including standard multipurpose tray with bypass)		
	Input Capacity Standard	Min 1000 Sheets		
	Total Input Capacity	Min 2100 Sheets		
	Total Output Capacity	Max 500 Sheets		
	Printing Paper Size	A3 Size		
Memory / Print Languages / Font Support	Memory Standard	4 GB		
	HDD / SSD	Min 250 GB HDD / Min 128 GB SSD		
	Memory Slots	Min 1 Front USB Port		
	Printing Languages	PCL, Post Script and other compatible languages		
	Printing Font Support	True Type Font Support		
Digital Sending Specifications	Standard Features	Scan to Email, Scan to Folder, Scan to Printer		
	Support File Formats	PDF, JPG, TIF, etc.		
Scanner Specifications	Scanner Type	Flatbed, RADF		
	Scan Resolution, enhanced	Upto 600x600 dpi		
	Speed BW / Color	min 55 / 55 PPM		
	Scan mode	Color scanning		
	RADF Capacity	standard 100 sheets		
	Scan paper size	A3 Size		
	Support File Formats	PDF, JPG, TIF.		
Copier Specifications	Copy Resolution, Black & White	Upto 600x600 dpi		
	Copy reduce/enlarge	25-400%		
	Maximum no of copies	999		
	Copier paper size	A3 Size		
General	Connectivity	USB, Ethernet, Wifi Direct		
	Certifications	Energy Star Certification		
	Warranty	5 Years		

ANNEXURE – 16M

Dot Matrix Printer (136 Col.)		Complied	
Make & Model:			
Functions	Required	Y/N	If no. remarks
Printer Type			
Number of Pins	24 / 9		
Printing Method	Serial Impact dot matrix		

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Print Directions	Bi-directional with logic seeking in both text and graphics				
Print Speed	10 CPI	12 CPI	15 CPI		
High speed Draft	300	360			
Draft	250	300	375		
LQ	83	100	125		
Drivers support	Microsoft® 10, DOS	Windows® 11,	Microsoft® Windows®		
INPUT BUFFER	Min. 64 KB				
Interfaces	USB and (Parallel / RS-232 Serial)				
Noise	less than 64 db				
Compatible Software	Compatible with Finacle				
Cartridge					
Type	Printer should not be Demo Toner Cartridge				

Dot Matrix Printer (80 Col.)				Complied	
Make & Model:				Y/ N	If no. remarks
Functions	Required			Y/ N	If no. remarks
Printer Type					
Number of Pins	24				
Printing Method	Serial Impact dot matrix				
Print Directions	Bi-directional with logic seeking in both text and graphics				
Print Speed	10 CPI	12 CPI	15 CPI		
High speed Draft	300				
Draft	200	240	300		
LQ	66	80	100		
Drivers support	Microsoft® 10, DOS	Windows® 11,	Microsoft® Windows®		
INPUT BUFFER	64 Kb				
Interfaces	USB and (Parallel / RS-232 Serial)				
Noise	less than 64 db				
Compatible Software	Compatible with Finacle				
Cartridge					
Type	Printer should not be Demo Toner Cartridge				

Pass Book Printer				Complied	
Make & Model:				Y/ N	If no. remarks
Functions	Required			Y/ N	If no. remarks
Printer Type	Multifunctional 24 Pin flatbed printer				
Number of Pins	24				
Printing Method	Bi-directional with logic seeking printing				
Print Speed	Min. DQ 400 CPS LQ-100CPS				
Drivers support	Microsoft® 10, DOS	Windows® 11,	Microsoft® Windows®		
INPUT BUFFER	8 Kb				
Interfaces	RS232/Centronics/USB 2.0 (full-speed)				
Noise	less than 64 db				
Compatible Software	Compatible with Finacle				

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ANNEXURE – 16N

High Speed Printer (Dot matrix) Specifications		Complied	
Make & Model:		Y/ N	If no. remarks
Specifications	Requirement	Y/ N	If no. remarks
Column	136		
Printing Method	Serial Impact dot matrix printer		
Printing Directions	Bi-directional with logic seeking in both text and graphics		
Noise	less than 64 db		
No. of Pins	24		
Printing speed	Draft Min. 450 cps (10 CPI)		
Input Buffer	Min. 64 KB		
Interface Standard	IEEE-1284 compliant Parallel, Serial Rs.232 / USB and Network Interface		
Drivers support	Microsoft® Windows® 11, Microsoft® Windows® 10, DOS		
Printing support	Multicopy printing support i.e. Min. 1+4		
Compatible Software	Compatible with Finacle		

ANNEXURE – 16O

Scanner (Flatbed) Specifications		Complied	
Make & Model:		Y/ N	If no. remarks
Functions	Required	Y/ N	If no. remarks
Scanning	Color		
Scan type	Flatbed		
Optical scanning resolution	Up to 1200 dpi		
Type	Flatbed		
Bit depth	48-bit		
Scan speed / Scan Preview Speed	Max. 15 sec per page		
File formats	PDF; TIF; BMP; JPG;		
Interface	USB 2.0 Hi-Speed		
Drivers support	Microsoft® Windows® 11, Microsoft® Windows® 10		
Compatible Software	Compatible with Finacle		

Scanner (Automatic Document Feeder) Specifications		Complied	
Make & Model:		Y/ N	If no. remarks
Functions	Required	Y/ N	If no. remarks
Scanning	Color		
Scan type	Automatic Document Feeder		
File formats	PDF; BMP; JPG and others.		
Scan Volume	Min. 1000 pages / Daily		
PPM	Min 20 pages per Minute @ 200 dpi		
Flatbed	No		
ADF	Yes		
Duplex	Yes (One pass duplex scanning)		
Pass	Single		

Annexure 16 – Technical Specifications of Computer Hardware, Anti-Virus Software and Peripherals for FY 2023-24.

ADF Size	50 pages or higher		
Scanning Element	CCD / CIS or equivalent		
Light Source	LED or equivalent		
Optical scanning resolution	Up to 600 x 600 dpi		
Output Resolution	75 dpi - 600 dpi (25 - 100 dpi increments)		
Interface – Hi-Speed	USB 2.0		
Drivers support	Microsoft® Windows® 11, Microsoft® Windows® 10		
Compatible Software	Compatible with Finacle		

ANNEXURE – 16P

CTS Scanner		Complied (Yes/No)	
	Technical Specification	100 DPM UV Speed	150 DPM UV Speed
1	Speed		
2	UV compliant		
3	Number of Input feeder		
4	Input feeder Cheque holding capacity		
5	Out put pocket cheque holding capacity		
6	Number of Out put Pocket - minimum 1		
7	Number of Reject Pocket - minimum 1		
8	MICR read head, endorser, Sorter, in-built OCR, front & back grey scale, front and back black & white scale and UV image capture in a single pass		
9	Endorsement requirement		
10	Scanner should have a UV enabled camera to capture and detect UV Ink, logos and watermark .Scanning module should have facility to capture and detect Counterfeit, fraudulent and doctored instruments.		
11	The proposed CTS scanner should have the capabilities and features to scan and capture information from instruments adhering to CTS 2010 cheque format		
12	The Proposed should be integrated with Newgen CTS application		

Sr. no	CTS canner	Model Name	Complied (Y/N)
1	100 DPM UV SPEED		
	1 Output pocket & 1 Reject Pocket	LIPI Vision X 100 Canon CR135i UV	
2	150 DPM UV		
	1 Output pocket & 1 Reject Pocket	Canon CR190i UV	

Note: Any other model other than the above mentioned may be quoted but the quoted model needs to be integrated with banks CTS application at vendors cost.