

**RFP- Empanelment of vendors for supply of Computer Hardware, Notebook PC, Anti-Virus Software and Peripherals for FY 2020-21. RFP No: BCC:IT:PROC:112:10 dt: 12th February 2020**

**SPEC - TYPE A PC**

**ANNEXURE - 15A**

<b>Desktop Type - A</b>	<b>Complied</b>	
	<b>Y/N</b>	<b>If No. Remarks</b>
<b>HARDWARE:</b> Make & Model of Desktop PC – _____		
<b>FORM FACTOR</b> - Tower		
<b>CPU</b> - Intel Core i5 - 9500 Processor @ 3.00 GHz or higher with 14 nanometer & Turbo boost technology OR AMD FX 8370E Processor @ 3.30 Ghz or higher with 32 nanometer technology & Turbo boost technology		
<b>CPU UPGRADABILITY</b> - Uniprocessor		
<b>CHIPSET</b> - Any compatible Intel/AMD Chipset meeting the specification below.		
<b>BIOS</b> - Standard BIOS		
<b>MEMORY</b> - 8 GB DDR4 2400 / 2666 MHz or higher		
<b>MEMORY EXPANDABILITY</b> - Expandable to Min. 16 GB		
<b>MEMORY SLOT</b> - Min. 2 Nos.		
<b>CD/DVD Drive</b> - SATA Min. 8X DVD+/-RW with Dual Layer Write Capability		
<b>HDD</b> - 1TB SATA III HDD with 7200 RPM or equivalent or higher (Make - OEM)		
<b>NIC</b> - Integrated 10/100/1000 Mb/s PCI Bus Fast Ethernet adapter with Wake on LAN		
<b>GRAPHICS</b> - Integrated Intel HD graphics with shared RAM or AMD Radeon HD graphics or equivalent or higher		
<b>AUDIO</b> - High Definition Audio or equivalent with Internal / External Speaker (Make - OEM)		
<b>POWER SUPPLY</b> - Min. 180W 100-240VAC 50-60Hz		
<b>EXPANSION SLOTS</b> - Min. One PCI Express x16, Min. Two PCIe x1 / PCIe / PCI.		
<b>PORTS:</b> Front - Min. 2 USB port, Microphone(stereo), Headphone(stereo 3.5mm). Rear - Min. 4 USB port, ethernet (RJ 45), Monitor (1 VGA + 1 HDMI / DVI Port / Display Port), One serial, One Parallel. Note: Total USB Ports 6 no's out of which Min 2 USB Port with 3.0 required.		
<b>REAR AUDIO PORTS</b> - Line in (stereo 3.5mm),Line out(stereo 3.5mm) Microphone -in (stereo 3.5mm)		
<b>TOTAL DRIVE BAYS</b> - Min. 2 Bays		
<b>CONSOLE</b> - Min. 18.5" Wide TFT LED Colour Monitor (Make – Desktop OEM) with a compliant standard of TCO 8.0		
<b>KEYBOARD</b> - 104 Keys USB Heavy Duty Keyboard (Make - OEM)		
<b>POINTING DEVICE</b> - Two Buttons with scroll button USB Mouse with PAD (Make - OEM)		
<b>SOFTWARE:</b>		
<b>OS CERTIFICATION</b> - Windows 10		
<b>SECURITY</b> - Boot, Setup Password & TPM		
<b>MANAGEABILITY</b> - Failure Notification for Memory & HDD		
<b>COMPLIANCE (Latest)</b> - Safety - Any one or more EPEAT Gold rating, Energy Star 7.0 compliant, Green guard, RoHS & Green Peace Rating of 4 or above		
<b>OPERATING SYSTEM</b> - Windows 10 Pro License bundled with Window 10 Pro CD, Drivers CD and Recovery CD.		

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**SPEC - TYPE A PC SSD**

**ANNEXURE - 15B**

<b>Desktop Type - A (with SSD)</b>	<b>Complied</b>	
	<b>Y/N</b>	<b>If No. Remarks</b>
<b>HARDWARE:</b> Make & Model of Desktop PC – _____		
<b>FORM FACTOR</b> - Tower		
<b>CPU</b> - Intel Core i5 - 9500 Processor @ 3.00 GHz or higher with 14 nanometer & Turbo boost technology OR AMD FX 8370E Processor @ 3.30 Ghz or higher with 32 nanometer technology & Turbo boost technology		
<b>CPU UPGRADABILITY</b> - Uniprocessor		
<b>CHIPSET</b> - Any compatible Intel/AMD Chipset meeting the specification below.		
<b>BIOS</b> - Standard BIOS		
<b>MEMORY</b> - 8 GB DDR4 2400 / 2666 MHz or higher		
<b>MEMORY EXPANDABILITY</b> - Expandable to Min. 16 GB		
<b>MEMORY SLOT</b> - Min. 2 Nos.		
<b>CD/DVD Drive</b> - SATA Min. 8X DVD+/-RW with Dual Layer Write Capability		
<b>HDD</b> - 512 GB Solid State Drive (SSD) or equivalent or higher (Make - OEM)		
<b>NIC</b> - Integrated 10/100/1000 Mb/s PCI Bus Fast Ethernet adapter with Wake on LAN		
<b>GRAPHICS</b> - Integrated Intel HD graphics with shared RAM or AMD Radeon HD graphics or equivalent or higher		
<b>AUDIO</b> - High Definition Audio or equivalent with Internal / External Speaker (Make - OEM)		
<b>POWER SUPPLY</b> - Min. 180W 100-240VAC 50-60Hz		
<b>EXPANSION SLOTS</b> - Min. One PCI Express x16, Min. Two PCIe x1 / PCIe / PCI.		
<b>PORTS:</b> Front - Min. 2 USB port, Microphone(stereo), Headphone(stereo 3.5mm). Rear - Min. 4 USB port, ethernet (RJ 45), Monitor (1 VGA + 1 HDMI / DVI Port / Display Port), One serial, One Parallel. Note: Total USB Ports 6 no's out of which Min 2 USB Port with 3.0 required.		
<b>REAR AUDIO PORTS</b> - Line in (stereo 3.5mm),Line out(stereo 3.5mm) Microphone -in (stereo 3.5mm)		
<b>TOTAL DRIVE BAYS</b> - Min. 2 Bays		
<b>CONSOLE</b> - Min. 18.5" Wide TFT LED Colour Monitor (Make – Desktop OEM) with a compliant standard of TCO 8.0		
<b>KEYBOARD</b> - 104 Keys USB Heavy Duty Keyboard (Make - OEM)		
<b>POINTING DEVICE</b> - Two Buttons with scroll button USB Mouse with PAD (Make - OEM)		
<b>SOFTWARE:</b>		
<b>OS CERTIFICATION</b> - Windows 10		
<b>SECURITY</b> - Boot, Setup Password & TPM		
<b>MANAGEABILITY</b> - Failure Notification for Memory & HDD		
<b>COMPLIANCE (Latest)</b> - Safety - Any one or more EPEAT Gold rating, Energy Star 7.0 compliant, Green guard, RoHS & Green Peace Rating of 4 or above		
<b>OPERATING SYSTEM</b> - Windows 10 Pro License bundled with Window 10 Pro CD, Drivers CD and Recovery CD.		

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**SPEC - TYPE B PC (W Monitor)**

**ANNEXURE - 15C**

<b>Desktop Type B (with Monitor)</b>	<b>Complied</b>	
	<b>Y/N</b>	<b>If No. Remarks</b>
<b>HARDWARE</b> : Make & Model of Desktop PC – _____		
<b>FORM FACTOR</b> - Tower		
<b>CPU</b> - Intel Core i3 - 9100 Processor @ 3.60 GHz or higher with 14 nanometer technology OR AMD Ryzen 5 Pro 3400G processor @ 3.70 Ghz or higher with 14 nanometer technology.		
<b>CPU UPGRADABILITY</b> - Uniprocessor		
<b>CHIPSET</b> - Any compatible Intel / AMD Chipset meeting the specification below.		
<b>BIOS</b> - Standard BIOS		
<b>MEMORY</b> - 4 GB DDR4 2666 / 2933 MHz or higher		
<b>MEMORY EXPANDABILITY</b> - Expandable to Min 16 GB		
<b>MEMORY SLOT</b> - Min. 2 Nos.		
<b>CD Drive</b> - SATA Min. 8x DVD+/- RW with dual layer write capability		
<b>HDD</b> - 1TB SATA III HDD with 7200 RPM or equivalent or higher (Make - OEM)		
<b>NIC</b> - Integrated 10/100/1000 Mb/s PCI Bus Fast Ethernet adapter with Wake on LAN		
<b>GRAPHICS</b> - Integrated Intel HD graphics with shared RAM or AMD Radeon Vega 11 HD graphics or equivalent or higher.		
<b>AUDIO</b> - High Definition Audio or equivalent with Internal / External Speaker (Make - OEM)		
<b>POWER SUPPLY</b> - Min 180W 100-240VAC 50-60Hz		
<b>EXPANSION SLOTS</b> - Min. One PCI Express x16, Min. Two PCIe x1 / PCIe / PCI.		
<b>PORTS:</b> Front - Min. 2 USB port, Microphone(stereo), Headphone(stereo 3.5mm). Rear - Min. 4 USB port, ethernet (RJ 45), Monitor (1 VGA + 1 HDMI / DVI Port / Display Port), One serial, One Parallel. Note: Total USB Ports 6 no's out of which Min 2 USB Port with 3.0 required.		
<b>REAR AUDIO PORTS</b> - Line in (stereo 3.5mm),Line out(stereo 3.5mm) Microphone -in (stereo 3.5mm)		
<b>TOTAL DRIVE BAYS</b> - Min. 2 Bays		
<b>CONSOLE</b> - Min. 18.5" Wide TFT LED Colour Monitor (Make – Desktop OEM) with a compliant standard of TCO 8.0		
<b>KEYBOARD</b> - 104 Keys USB Heavy Duty Keyboard (Make - OEM)		
<b>POINTING DEVICE</b> - Two Buttons with scroll button USB Mouse with PAD (Make - OEM)		
<b>SOFTWARE:</b>		
<b>OS CERTIFICATION</b> - Windows 10		
<b>SECURITY</b> - Boot, Setup Password & TPM		
<b>MANAGEABILITY</b> - Pre-Failure Notification for Memory & HDD		
<b>COMPLIANCE (Latest)</b> - Safety - Any one or more EPEAT Gold rating, Energy Star 7.0 compliant, Green guard, RoHS & Green Peace Rating of 4 or above		
<b>OPERATING SYSTEM</b> - Windows 10 Pro License bundled with Window 10 Pro CD, Drivers CD and Recovery CD.		

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**SPEC - TYPE B PC (WO Monitor)**

**ANNEXURE - 15D**

<b>Desktop Type B (without Monitor)</b>	<b>Complied</b>	
	<b>Y/N</b>	<b>If No. Remarks</b>
<b>HARDWARE</b> : Make & Model of Desktop PC – _____		
<b>FORM FACTOR</b> - Tower		
<b>CPU</b> - Intel Core i3 - 9100 Processor @ 3.60 GHz or higher with 14 nanometer technology OR AMD Ryzen 5 Pro 3400G processor @ 3.70 Ghz or higher with 14 nanometer technology.		
<b>CPU UPGRADABILITY</b> - Uniprocessor		
<b>CHIPSET</b> - Any compatible Intel / AMD Chipset meeting the specification below.		
<b>BIOS</b> - Standard BIOS		
<b>MEMORY</b> - 4 GB DDR4 2666 / 2933 MHz or higher		
<b>MEMORY EXPANDABILITY</b> - Expandable to Min 16 GB		
<b>MEMORY SLOT</b> - Min. 2 Nos.		
<b>CD Drive</b> - SATA Min. 8x DVD+/- RW with dual layer write capability		
<b>HDD</b> - 1TB SATA III HDD with 7200 RPM or equivalent or higher (Make - OEM)		
<b>NIC</b> - Integrated 10/100/1000 Mb/s PCI Bus Fast Ethernet adapter with Wake on LAN		
<b>GRAPHICS</b> - Integrated Intel HD graphics with shared RAM or AMD Radeon Vega 11 HD graphics or equivalent or higher.		
<b>AUDIO</b> - High Definition Audio or equivalent with Internal / External Speaker (Make - OEM)		
<b>POWER SUPPLY</b> - Min 180W 100-240VAC 50-60Hz		
<b>EXPANSION SLOTS</b> - Min. One PCI Express x16, Min. Two PCIe x1 / PCIe / PCI.		
<b>PORTS:</b> Front - Min. 2 USB port, Microphone(stereo), Headphone(stereo 3.5mm). Rear - Min. 4 USB port, ethernet (RJ 45), Monitor (1 VGA + 1 HDMI / DVI Port / Display Port), One serial, One Parallel. Note: Total USB Ports 6 no's out of which Min 2 USB Port with 3.0 required.		
<b>REAR AUDIO PORTS</b> - Line in (stereo 3.5mm),Line out(stereo 3.5mm) Microphone -in (stereo 3.5mm)		
<b>TOTAL DRIVE BAYS</b> - Min. 2 Bays		
<b>KEYBOARD</b> - 104 Keys USB Heavy Duty Keyboard (Make - OEM)		
<b>POINTING DEVICE</b> - Two Buttons with scroll button USB Mouse with PAD (Make - OEM)		
<b>SOFTWARE:</b>		
<b>OS CERTIFICATION</b> - Windows 10		
<b>SECURITY</b> - Boot, Setup Password & TPM		
<b>MANAGEABILITY</b> - Pre-Failure Notification for Memory & HDD		
<b>COMPLIANCE (Latest)</b> - Safety - Any one or more EPEAT Gold rating, Energy Star 7.0 compliant, Green guard, RoHS & Green Peace Rating of 4 or above		
<b>OPERATING SYSTEM</b> - Windows 10 Pro License bundled with Window 10 Pro CD, Drivers CD and Recovery CD.		

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**Workstation**

**ANNEXURE - 15E**

<b>Workstation PC</b>	<b>Complied</b>	
	<b>Y/N</b>	<b>If No. Remarks</b>
<b>HARDWARE:</b> Make & Model of Desktop PC – _____		
<b>FORM FACTOR</b> - Tower		
<b>CPU</b> - Intel® Xeon® Processor E2104G @ 3.20 GHZ or higher		
<b>CHASIS</b> - Internal 3.5" bay – supports 3.5" drives in case of HDD and 2.5" drives in case of SDD		
<b>CHIPSET</b> - Any compatible Intel Chipset meeting the specification below.		
<b>BIOS</b> - Standard BIOS		
<b>MEMORY</b> - 16 GB DDR4 2666 MHz or higher		
<b>MEMORY EXPANDABILITY</b> - Expandable to 64GB		
<b>MEMORY SLOT</b> - Min. 4 Nos.		
<b>CD/DVD Drive</b> - SATA Min. 8x DVD+/- RW		
<b>HDD</b> - 2.5-inch SATA SSD 512 GB or higher (Make - OEM)		
<b>NIC</b> - Integrated 10/100/1000 Mb/s PCI Bus Fast Ethernet adapter with Wake on LAN		
<b>VIDEO CARD</b> - One PCI Express® x16 Gen 3 Graphics card up to 50W (Preferably Nvidia Quadro P620 with 4mdp or higher)		
<b>AUDIO</b> - High Definition Audio or equivalent with Internal / Extrenal Speaker (Make - OEM)		
<b>POWER SUPPLY</b> - Min. 365W 90% efficient PSU (80PLUS Platinum / Gold Certified) Energy Star Compliant		
<b>EXPANSION SLOTS</b> - Min. 1 PCIe x16 Gen3 Slot		
<b>PORTS:</b> Front - Min. 2 USB port, Microphone(stereo), Headphone(stereo 3.5mm). Rear - Min. 4 USB port, Min 1 ethernet (RJ 45), 1 VGA Connector, One serial, One Parallel, 2 PS2 ( <b>optional</b> ), 2 DisplayPort, 3 SATA 6Gb/s Note: All USB Ports to be provided with 3.0		
<b>REAR AUDIO PORTS (Optional)</b> - Line in (stereo 3.5mm), Line out(stereo 3.5mm) Microphone -in (stereo 3.5mm)		
<b>TOTAL DRIVE BAYS</b> - Min. 2 Bays		
<b>CONSOLE</b> - Min. 23.8" Wide TFT LED Colour Monitor (Make – Desktop OEM) with a compliant standard of TCO 6.0		
<b>KEYBOARD</b> - 104 Keys PS2 / USB Heavy Duty Keyboard (Make - OEM)		
<b>POINTING DEVICE</b> - Two Buttons with scroll button PS2 / USB Mouse with PAD (Make - OEM)		
<b>SOFTWARE:</b>		
<b>OS CERTIFICATION</b> - Windows 10		
<b>SECURITY</b> - Boot, Setup Password & TPM		
<b>MANAGEABILITY</b> - Failure Notification for Memory & HDD		
<b>COMPLIANCE (Latest)</b> - Safety - Any one or more EPEAT Gold rating, Energy Star 5.0 compliant, Green guard, RoHS & Green Peace Rating of 4 or above		
<b>OPERATING SYSTEM</b> - Windows 10 Pro License bundled with Window 10 Pro CD, Drivers CD and Recovery CD.		

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**Notebook PC Model 1**

**ANNEXURE - 15F**

<b>Notebook PC - Model 1</b>	<b>Complied</b>	
	<b>Y/N</b>	<b>If No. Remarks</b>
<b>HARDWARE</b> : Make & Model of Notebook PC – _____		
<b>CPU</b> – Intel Core i5 - 8265U Processor @ 1.6 GHz or higher		
<b>CHIPSET</b> - Any compatible Intel Original Chipset meeting the specification below.		
<b>BIOS</b> - Standard BIOS		
<b>MEMORY</b> - 8GB DDR4 2133 / 2400 Mhz or Higher		
<b>MEMORY EXPANDABILITY</b> - Expandable to Min 16 GB		
<b>MEMORY SLOT</b> - Min. 2 Nos DDR4 DIMM Slot		
<b>HDD</b> - 512 GB Solid State Drive (SSD) or equivalent or higher (Make - OEM)		
<b>NIC</b> - 10/100/1000 Mb/s PCI Ethernet Card.		
<b>GRAPHICS</b> – Intel HD Graphics		
<b>MULTIMEDIA</b> - Integrated Multimedia with Built-in Audio Speakers & Microphone		
<b>INTERFACES</b> - Min 3 USB Ports (2.0 / 3.0), RJ45, Audio Out/In, Mic In, HDMI Port (HDMI to VGA Converter - OEM Make).		
<b>CAMERA</b> - Built-in Integrated 1.3 Mega Pixel Camera / 720p HD or higher		
<b>CARD READER</b> - Multiple Card Reader (I.e. SD / XD / PRO etc.,)		
<b>KEYPAD</b> - Standard Keyboard		
<b>POINTING DEVICE</b> - Built-in Touchpad with integrated Button & Scroll Key along with gestures support, two-finger scoll, zoom, pinch and pivot rotate or equivalent		
<b>EXTERNAL DEVICE</b> - USB Mouse with scroll button(OEM)		
<b>WIRELESS</b> - Intel® Wireless Network Connection		
<b>BLUETOOTH</b> – Bluetooth 4.0 Ver. Enabled or higher		
<b>COMPLIANCE (Latest)</b> - Safety - Any one or more EPEAT Gold rating, Energy Star 7.0 compliant, Green guard, RoHS & Green Peace Rating of 4 or above		
<b>DISPLAY</b> - 14" diagonal LED-backlit HD anti-glare (1366 x 768 Resolution or Higher)		
<b>BATTERY</b> – Min 40 WHR Battery pack or higher and Min. 6 hours battery backup.		
<b>AC ADAPTER</b> - 3 pin AC Adapter ( 200V/50Hz)		
<b>ACCESSORIES</b> - Carrying case		
<b>WEIGHT</b> – The Weight of the Notebook PCs should be 1.8 Kg or less including Battery		
<b>SOFTWARE :-</b>		
<b>ANTIVIRUS</b> - Latest Antivirus of Bitdefender / Kaspersky / Norton / F-Secure / AVG / AVAST / McAfee / Trend Micro / Quick Heal compatible with Microsoft® Windows® 8, Microsoft® Windows® 7 (Single Licence per Notebook PC for 3 Years with AV serial key and installation CD)		
<b>OPERATING SYSTEM</b> - Preloaded Windows 10 Pro bundled with Window 10 Pro CD, Drivers CD, Recovery CD		

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**Notebook PC Model 2**

**ANNEXURE - 15G**

<b>Notebook PC - Model 2</b>	<b>Complied</b>	
	<b>Y/N</b>	<b>If No. Remarks</b>
<b>HARDWARE :-</b> Make & Model of Notebook PC – _____		
<b>CPU –</b> Intel Core i3 - 8145U Processor @ 2.20 GHz or higher		
<b>CHIPSET -</b> Any compatible Intel Original Chipset meeting the specification below.		
<b>BIOS -</b> Standard BIOS		
<b>MEMORY -</b> 8 GB DDR4 2133 / 2400 Mhz or Higher		
<b>MEMORY EXPANDABILITY -</b> Expandable to Min 16 GB		
<b>MEMORY SLOT -</b> Min. 2 Nos DDR4 DIMM Slot		
<b>HDD -</b> 1 TB 5.4k RPM 2.5" SATA HDD (Make - OEM) or Higher		
<b>NIC -</b> 10/100/1000 Mb/s PCI Ethernet Card		
<b>GRAPHICS –</b> Intel HD Graphics		
<b>MULTIMEDIA -</b> Integrated Multimedia with Built-in Audio Speakers & Microphone		
<b>INTERFACES -</b> Min 3 USB Ports (2.0 / 3.0), RJ45, Audio Out/In, Mic In, HDMI Port (HDMI to VGA Converter - OEM Make)		
<b>CAMERA -</b> Built-in Integrated 1.3 Mega Pixel Camera / 720p HD or higher		
<b>CARD READER -</b> Multiple Card Reader (I.e. SD / XD / PRO etc.,)		
<b>KEYPAD -</b> Standard Keyboard		
<b>POINTING DEVICE -</b> Built-in Touchpad with integrated Button & Scroll Key along with gestures support, two-finger scoll, zoom, pinch and pivot rotate		
<b>EXTERNAL DEVICE -</b> USB Mouse with scroll button(OEM)		
<b>WIRELESS -</b> Intel® Wireless Network Connection		
<b>BLUETOOTH –</b> Bluetooth 4.0 Ver. Enabled or higher		
<b>COMPLIANCE (Latest) -</b> Safety - Any one or more EPEAT Gold rating, Energy Star 7.0 compliant, Green guard, RoHS & Green Peace Rating of 4 or above		
<b>DISPLAY -</b> 14" diagonal LED-backlit HD anti-glare (1366 x 768 Resolution or Higher)		
<b>BATTERY –</b> Min 40 WHR Battery pack or higher and Min. 4 hours battery backup.		
<b>AC ADAPTER -</b> 3 pin AC Adapter ( 200V/50Hz)		
<b>ACCESSORIES -</b> Carrying case		
<b>WEIGHT –</b> The Weight of the Notebook PCs should be 1.8 Kg or less including Battery.		
<b>SOFTWARE :-</b>		
<b>ANTIVIRUS -</b> Latest Antivirus of Bitdefender / Kaspersky / Norton / F-Secure / AVG / AVAST / McAfee / Trend Micro / Quick Heal compatible with Microsoft® Windows® 8, Microsoft® Windows® 7 (Single Licence per Notebook PC for 3 Years with AV serial key and installation CD)		
<b>OPERATING SYSTEM -</b> Preloaded Windows 10 Pro bundled with Window 10 Pro CD, Drivers CD, Recovery CD		

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**Software - AV**

**ANNEXURE - 15H**

<b>Software Specifications</b>		<b>Complied</b>	
<b>Functional Specifications</b>	<b>Required</b>	<b>Y/ N</b>	<b>If no. remarks</b>
<b>Make &amp; Model</b>			
<b>ANTIVIRUS</b>	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)		



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**Monitor**

**ANNEXURE - 15I**

<b>Monitor Specifications - 18.5 inch category</b>		<b>Complied</b>	
<b>Functional Specifications</b>	<b>Required</b>	<b>Y/ N</b>	<b>If no. remarks</b>
<b>Make &amp; Model</b>			
<b>Monitor</b>	Min. 18.5" Wide TFT LED Colour Monitor (Make – Desktop OEM) with a compliant standard of TCO 8.0		

<b>Monitor Specifications - 23.8 inch category</b>		<b>Complied</b>	
<b>Functional Specifications</b>	<b>Required</b>	<b>Y/ N</b>	<b>If no. remarks</b>
<b>Make &amp; Model</b>			
<b>Monitor</b>	Min. 23.8" Wide TFT LED Colour Monitor (Make – Desktop OEM) with a compliant standard of TCO 8.0		

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**RAM**

**ANNEXURE - 15J**

<b>Desktop PC Memory Module (RAM) - 4 GB DDR4</b>		<b>Complied</b>	
<b>Functional Specifications</b>	<b>Required</b>	<b>Y/ N</b>	<b>If no. remarks</b>
<b>Make &amp; Model</b>			
<b>Memory Module (RAM)</b>	Min. 4 GB DDR4 2400 / 2666 / 2933 MHz or higher		

<b>Desktop PC Memory Module (RAM) - 8 GB DDR4</b>		<b>Complied</b>	
<b>Functional Specifications</b>	<b>Required</b>	<b>Y/ N</b>	<b>If no. remarks</b>
<b>Make &amp; Model</b>			
<b>Memory Module (RAM)</b>	Min. 8 GB DDR4 2400 / 2666 / 2933 MHz or higher		

<b>Desktop PC Memory Module (RAM) - 16 GB DDR4</b>		<b>Complied</b>	
<b>Functional Specifications</b>	<b>Required</b>	<b>Y/ N</b>	<b>If no. remarks</b>
<b>Make &amp; Model</b>			
<b>Memory Module (RAM)</b>	Min. 16 GB DDR4 2400 / 2666 / 2933 MHz or higher		

<b>Desktop PC Memory Module (RAM) - 4 GB DDR3</b>		<b>Complied</b>	
<b>Functional Specifications</b>	<b>Required</b>	<b>Y/ N</b>	<b>If no. remarks</b>
<b>Make &amp; Model</b>			
<b>Memory Module (RAM)</b>	Min. 4 GB DDR3 1600 / 1866 MHz or higher		

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**Printer-Single,NW,Color,Deskjt**

**ANNEXURE - 15K**

<b>Mono Laserjet Printer without Networking</b>		<b>Complied</b>	
<b>Make &amp; Model:</b>			
<b>Functions</b>	<b>Printer</b>	<b>Y/ N</b>	<b>If no. remarks</b>
<b>Printing</b>	<b>Mono</b>		
Print speed black (normal, A4)	Min. 28 ppm		
Print quality black (best)	Up to 600 x 600 dpi (1200 dpi effective)		
<b>Paper handling</b>			
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		
<b>Connectivity</b>			
Standard connectivity	Hi-Speed USB 2.0 port		
Compatible operating systems	Microsoft® Windows® 10, Microsoft® Windows® 8, Microsoft® Windows® 7		
Compatible Software	Compatible with Finacle		
<b>Cartridge</b>			
Type	Toner cartridge provided with printer should not be a Demo Cartridge		

<b>Mono Laserjet Printer with Networking</b>		<b>Complied</b>	
<b>Make &amp; Model:</b>			
<b>Functions</b>	<b>Printer</b>	<b>Y/ N</b>	<b>If no. remarks</b>
<b>Printing</b>	<b>Mono</b>		
Print speed black (normal, A4)	Min. 38 ppm		
First page out black (A4, ready)	As fast as less than 6 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)		
<b>Paper handling</b>			
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		
<b>Additional specifications</b>			
Processor speed	Min. 266 Mhz		
Standard memory(min)	Min. 128 MB		
<b>Connectivity</b>			
Standard connectivity	Hi-Speed USB 2.0 port; 10/100Base-T Ethernet network port		
Compatible operating systems	Microsoft® Windows® 10, Microsoft® Windows® 8, Microsoft® Windows® 7		
Compatible Software	Compatible with Finacle		
<b>Cartridge</b>			
Type	Toner cartridge provided with printer should not be a Demo Cartridge		

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**Printer-Single,NW,Color,Deskjt**

Cont. of ANNEXURE - 15K

<b>Color Laserjet Printer</b>		<b>Complied</b>	
<b>Make &amp; Model:</b>			
<b>Functions</b>	<b>Required</b>	<b>Y/ N</b>	<b>If no. remarks</b>
<b>Printing</b>	<b>Color</b>		
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® 10, Microsoft® Windows® 8, Microsoft® Windows® 7,		
<b>Cartridge</b>			
Type	Toner cartridge provided with printer should not be a Demo Cartridge		

<b>Deskjet / Inkjet Printer</b>		<b>Complied</b>	
<b>Make &amp; Model:</b>			
<b>Functions</b>	<b>Printer</b>	<b>Y/ N</b>	<b>If no. remarks</b>
Print Resolution	600dpi x 600dpi or higher		
Print Speed - Draft	Approx. 27 ppm Black / 15 ppm Color		
ISO 24734, A4	Approx. 6 ppm Black / 3 ppm Color		
Bundled Page Yield	Min. 1000 Black and 700 Color		
Connectivity	USB 2.0 Hi-Speed		
Operating System Compatibility	Microsoft® Windows® 10, Microsoft® Windows® 8, Microsoft® Windows® 7,		

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**Printer-Single,NW,Color,Deskjt**

Cont. of ANNEXURE - 15K

<b>High Speed Mono Laserjet Printer with Networking</b>		<b>Complied</b>	
<b>Make &amp; Model:</b>		<b>Y/ N</b>	<b>If no. remarks</b>
<b>Functions</b>	<b>Printer</b>		
<b>Printing</b>	<b>Mono</b>		
Print speed black (normal, A4)	Min. 60 ppm		
First page out black (A4, ready)	As fast as less than 8 sec		
Monthly Print Volume	5,000 to 20,000 pages per month		
Duty Cycle	2,80,000 Pages		
Print technology	Laser		
Print quality black (best)	Up to 600 x 600 dpi (1200 dpi effective)		
<b>Paper handling</b>			
Paper handling standard/input	Two trays.one Multipurpose tray of 500-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		
<b>Additional specifications</b>			
Processor speed	Min. 500 Mhz		
Standard memory(min)	Min. 512 MB		
<b>Connectivity</b>			
Standard connectivity	Hi-Speed USB 2.0 port; 10/100Base-T Ethernet network port		
Compatible operating systems	Microsoft® Windows® 10, Microsoft® Windows® 8, Microsoft® Windows® 7		
Compatible Software	Compatible with Finacle		
<b>Cartridge</b>			
Type	Toner cartridge provided with printer should not be a Demo Cartridge		

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**MFP**

**ANNEXURE - 15L**

<b>Multi Functional Printer</b>		<b>Complied</b>	
<b>Make &amp; Model:</b>		<b>Y/ N</b>	<b>If no. remarks</b>
<b>Functions</b>	<b>Print, Copy, Scan, Fax</b>		
<b>Printing</b>	<b>Mono</b>		
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)		
<b>Paper handling</b>			
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		
<b>Additional specifications</b>			
Processor speed	Min. 266 Mhz		
Standard memory(min)	Min. 256 MB		
<b>Scanner Specifications</b>			
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		
Auto document feeder capacity	Standard, 50 sheets		
Duplex Scanning	Automated		
File formats	PDF; TIF; BMP; JPG		
<b>Copier Specifications</b>			
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		
<b>Fax Specifications</b>			
Fax speed	33.6 kbps		
A4 pages held in memory	Up to 100 pages		
Resolution (black and white, best mode)	Up to 300 x 300 dpi		
Maximum speed dialing numbers	Up to 100 numbers		
Auto-redialing	Yes		
<b>Connectivity</b>			
Standard connectivity	Hi-Speed USB 2.0 port; 10/100Base-T Ethernet network port; RJ-11 Telephone port		
Compatible operating systems	Microsoft® Windows® 10, Microsoft® Windows® 8, Microsoft® Windows® 7		
Compatible Software	Compatible with Finacle		
Interfaces	RS232/Centronics/USB 2.0		
Noise	less than 64 db		
<b>Catridge</b>			
Type	Toner cartridge provided with printer should not be a Demo Cartridge		

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**DMP - 80, 136 & PBP**

**ANNEXURE - 15M**

<b>Dot Matrix Printer (136 Col.)</b>			<b>Complied</b>	
<b>Make &amp; Model:</b>			<b>Y/ N</b>	<b>If no. remarks</b>
<b>Functions</b>	<b>Required</b>			
<b>Printer Type</b>				
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		
<b>High speed Draft</b>	300	360		
Draft	250	300 375		
LQ	83	100 125		
Drivers support	Microsoft® Windows® 10, Microsoft® Windows® 8, Microsoft® Windows® 7, DOS			
INPUT BUFFER	Min. 64 KB			
Interfaces	USB and (Parallel / RS-232 Serial)			
Noise	less than 64 db			
Compatible Software	Compatible with Finacle			
<b>Catridge</b>				
Type	Printer should not be Demo Toner Catridge			

<b>Dot Matrix Printer (80 Col.)</b>			<b>Complied</b>	
<b>Make &amp; Model:</b>			<b>Y/ N</b>	<b>If no. remarks</b>
<b>Functions</b>	<b>Required</b>			
<b>Printer Type</b>				
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		
<b>High speed Draft</b>	300			
Draft	200	240 300		
LQ	66	80 100		
Drivers support	Microsoft® Windows® 10, Microsoft® Windows® 8, Microsoft® Windows® 7, DOS			
INPUT BUFFER	64 Kb			
Interfaces	USB and (Parallel / RS-232 Serial)			
Noise	less than 64 db			
Compatible Software	Compatible with Finacle			
<b>Catridge</b>				
Type	Printer should not be Demo Toner Catridge			

<b>Pass Book Printer</b>			<b>Complied</b>	
<b>Make &amp; Model:</b>			<b>Y/ N</b>	<b>If no. remarks</b>
<b>Functions</b>	<b>Required</b>			
<b>Printer Type</b>	Multifunctional 24 Pin flatbed printer			
Number of Pins	24			
Printing Method	Bi-directional with logic seeking printing			
Print Speed	Min. DQ 300 CPS LQ-100CPS			
Drivers support	Microsoft® Windows® 10, Microsoft® Windows® 8, Microsoft® Windows® 7, DOS			
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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**HSP & Line Printer**

**ANNEXURE - 15N**

<b>High Speed Printer Specifications</b>		<b>Complied</b>	
<b>Make &amp; Model:</b>		<b>Y/ N</b>	<b>If no. remarks</b>
<b>Specifications</b>	<b>Requirementment</b>	<b>Y/ N</b>	<b>If no. remarks</b>
<b>Column</b>	<b>136</b>		
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 Parellel, Serial Rs.232 / USB ( Provision for Network Interface Card installation)		
Drivers support	Microsoft® Windows® 10, Microsoft® Windows® 8, Microsoft® Windows® 7, DOS		
Printing support	Multicopy printing support i.e. Min. 1+4		
Compatible Software	Compatible with Finacle		

<b>Line Printer Specifications</b>		<b>Complied</b>	
<b>Make &amp; Model:</b>		<b>Y/ N</b>	<b>If no. remarks</b>
<b>Specifications</b>	<b>Requirementment</b>	<b>Y/ N</b>	<b>If no. remarks</b>
Printing Technology	Line Impact Dot Matrix 136 Column		
Printing Speed	500 Lines Per Minute or Higher		
Column	136 Column		
Interface Standard	IEEE-1284 compliant Parellel, Serial Rs.232 & Network Interface Card		
Fonts	Draft, Data Processing, Gothic, Courier, OCR-A!, OCR-B!		
Drivers support	Microsoft® Windows® 10, Microsoft® Windows® 8, Microsoft® Windows® 7, DOS		
Printing support	Multicopy printing support i.e. Min. 6		
Compatible Software	Compatible with Finacle		



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**Scanner-Flatbed & ADF**

**ANNEXURE - 150**

<b>Scanner (Flatbed) Specifications</b>		<b>Complied</b>	
<b>Make &amp; Model:</b>			
<b>Functions</b>	<b>Required</b>	<b>Y/ N</b>	<b>If no. remarks</b>
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® 10, Microsoft® Windows® 8, Microsoft® Windows® 7,		
Compatible Software	Compatible with Finacle		

<b>Scanner (Flatbed with Automatic Document Feeder)</b>		<b>Complied</b>	
<b>Make &amp; Model:</b>			
<b>Functions</b>	<b>Required</b>	<b>Y/ N</b>	<b>If no. remarks</b>
Scanning	Color		
Scan type	Flatbed, ADF		
File formats	PDF; TIF; BMP; JPG;		
<b>Scan Volume</b>	Min. 3000 pages / Daily		
<b>PPM</b>	Monochrome: 40 Pages/min - Colour: 40 Pages/min measured with Size: A4 , Resolution: 200 / 300 dpi, Monochrome: 80 image/min - Colour: 80 image/min measured with Size: A4 , Resolution: 200 / 300 dpi		
<b>Flatbed</b>	Yes		
<b>ADF</b>	Yes		
<b>Duplex</b>	Yes		
<b>Pass</b>	Single		
<b>ADF Size</b>	Min. 80 pages		
<b>Scanning Element</b>	CCD or equivalent		
<b>Light Source</b>	White LED or equivalent		
<b>Optical scanning resolution</b>	Up to 600 x 600 dpi		
<b>Output Resolution</b>	75 dpi - 600 dpi (25 - 100 dpi increments)		
Interface – Hi-Speed	USB2.0		
Drivers support	Microsoft® Windows® 10, Microsoft® Windows® 8, Microsoft® Windows® 7,		
Compatible Software	Compatible with Finacle		

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**Scanner-Flatbed & ADF**

Cont. of ANNEXURE - 150

<b>Scanner (Automatic Document Feeder) Specifications</b>		<b>Complied</b>	
<b>Make &amp; Model:</b>		<b>Y/ N</b>	<b>If no. remarks</b>
<b>Functions</b>	<b>Required</b>		
Scanning	Color		
Scan type	Automatic Document Feeder		
File formats	PDF; BMP; JPG and others.		
<b>Scan Volume</b>	Min. 1000 pages / Daily		
<b>PPM</b>	Min 20 pages per Minute @ 200 dpi		
<b>Flatbed</b>	No		
<b>ADF</b>	Yes		
<b>Duplex</b>	Yes (One pass duplex scanning)		
<b>Pass</b>	Single		
<b>ADF Size</b>	50 pages or higher		
<b>Scanning Element</b>	CCD / CIS or equivalent		
<b>Light Source</b>	LED or equivalent		
<b>Optical scanning resolution</b>	Up to 600 x 600 dpi		
<b>Output Resolution</b>	75 dpi - 600 dpi (25 - 100 dpi increments)		
Interface – Hi-Speed	USB 2.0		
Drivers support	Microsoft® Windows® 10, Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows® Vista, Microsoft® Windows® XP		
Compatible Software	Compatible with Finacle		

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**CTS Scanner**

**ANNEXURE - 15P**

<b>CTS Scanner</b>		<b>Complied (Yes/No)</b>	
		<b>50 DPM UV Speed</b>	<b>150 DPM UV Speed</b>
	<b>Technical Specification</b>		
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 requiriement		
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		

<b>Sno</b>	<b>Scanner</b>	<b>Model Name</b>	<b>Complied (Y/N)</b>
<b>1</b>	<b>50 DPM UV SPEED</b>		
	<b>1 Output pocket &amp; 1 Reject Pocket</b>	LIPI Vision X 100	
		Canon CR135i UV	
<b>2</b>	<b>150 DPM UV</b>		
	<b>1 Output pocket &amp; 1 Reject Pocket</b>	Canon CR190i UV	

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