



# **HIGH COURT OF MADHYA PRADESH**

**PRINCIPAL SEAT – JABALPUR**

**No. Reg(IT)(SA)/2020/1015 Jabalpur, Dated:-04-08-2020**

## **// CLARIFICATION //**

**Subject:-** The matter regarding to publish the clarification / reply of Pre-Bid meeting dated: 26<sup>th</sup> June, 2020 regarding the tender for the supply, installation, commissioning, maintenance and rate contract of the Computer Hardware for the High Court of Madhya Pradesh and Subordinate Courts in the State of Madhya Pradesh with reference to tender no. Reg(IT)(SA)/2020/794, Dated:15.06.2020.

**Ref: -** Pre-Bid Meeting dated: 26<sup>th</sup> June, 2020.

### **Reply / clarification to the pre-bid queries**

<b>Query No.</b>	<b>RFP Reference (Section No. /Page No.)</b>	<b>Content of RFP Requiring Clarification</b>	<b>Query of the bidder / remarks of the bidder</b>	<b>Reply / clarification to the query /remarks by the High Court</b>
1.	TECHNICAL SPECIFICATIONS/Minimum Specifications – A/Desktop Computers (Ubuntu Operating System)/Point No. 4, Page No. 38	Processor Family Intel Core i3 Processor with Eighth Generation or better processor	Request you to please change it to <b>10th Gen</b> as this is latest and available with all the Industry leading OEMs. Also, as this is Rate Contract and product has to be supplied for 1 Year duration it is advised to go with latest available generation.	Yes changed.
2.	TECHNICAL SPECIFICATIONS/Minimum Specifications – A/Desktop Computers (Ubuntu Operating System)/Point No. 7, Page No. 38	Motherboard & Chipset Intel Original Mother Board or better M/B based on associated Chipset with minimum two free PCI/ PCI-x/PCI-Express slots	Request you to kindly modify the clause to "1 Half Height PCIe x1 + 1 Half Height PCIe x16"	The vendor may quote better specifications i.e. two free PCI/ PCI-x/PCI-Express slots/ PCIe x1 + 1 Half Height PCIe
3.	TECHNICAL SPECIFICATIONS/Minimum Specifications – A/Desktop Computers (Ubuntu Operating System)/Point No. 13, Page No.38	Operating System certificate Ubuntu-Linux16.04 LTS.	Request you to kindly modify the clause to "latest Ubuntu 18.04 "	Yes changed to Ubuntu-Linux 18.04 LTS and declaration/ certificate is to be obtain from OEM.
4.	TECHNICAL SPECIFICATIONS/Minimum Specifications – A/Desktop Computers (Ubuntu Operating System)/Point No. 19, Page	Speakers Stereo Sound Speakers (Built-In with CPU Cabinet or Monitor.	Request you to please remove Inbuilt option and allow to mount sound bar	Yes changed to Stereo sound bar /stereo speaker (Built-In with CPU Cabinet



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	No.38			<b>OR Monitor).</b>
5.	TECHNICAL SPECIFICATIONS/Minimum Specifications – A/Desktop Computers (Ubuntu Operating System)/Point No. 22, Page No.38	USB Port 4 x USB 2.0, 2 x USB 3.0	Request you to keep at least 4 Ports for Two USB 3.2 Gen 1 as these are latest and available with all OEMs	Yes change to 4 x USB 2.0, 2 x USB 3.0/3.1 / 3.2.
6.	TECHNICAL SPECIFICATIONS/Minimum Specifications – A/Desktop Computers (Ubuntu Operating System)/Point No. 30, Page No.39	Hardware Drivers Vendor to provide for Ubuntu – Linux 16.04 LTS	Request you to kindly modify the clause to "Vendor to provide for Ubuntu – Linux 18.04 LTS" Please change it to latest Ubuntu 18.04	Yes changed to 18.04 LTS" or better. (The vendor have to ensure that the provided hardware should be fully supported /compatible with OS)
7.	TECHNICAL SPECIFICATIONS/Minimum Specifications – B/Desktop Computers (Windows Operating System)/Point No. 4, Page No.39	Processor Family Intel Core i3 processor with Eighth Generation or better.	Request you to please change it to 10th Gen as this is latest and available with all the Industry leading OEMs. Also, as this is Rate Contract and product has to be supplied for 1 Year duration it is advised to go with latest available generation.	Yes changed.
8.	TECHNICAL SPECIFICATIONS/Minimum Specifications – B/Desktop Computers (Windows Operating System)/Point No. 7, Page No.39	Motherboard & Chipset Intel Original Mother Board or better or equivalent M/B based on associated Chipset with Minimum two free PCI/ PCI-x/PCI-Express slots	Request you to kindly modify the clause to "1 Half Height PCIe x1 + 1 Half Height PCIe x16"	The vendor may quote better specifications i.e. two free PCI/ PCI-x/PCI-Express slots/ PCIe x1 + 1 Half Height PCIe
9.	TECHNICAL SPECIFICATIONS/Minimum Specifications – B/Desktop Computers (Windows Operating System)/Point No. 19, Page No.40	Speakers Stereo Sound Speakers (Built-In with CPU Cabinet or Monitor.	Request you to please remove Inbuilt option and allow to mount sound bar	Yes changed to Stereo sound bar stereo speaker (Built-In with CPU Cabinet <b>OR Monitor).</b>
10.	TECHNICAL SPECIFICATIONS/Minimum Specifications – B/Desktop Computers (Windows Operating System)/Point No. 22, Page No.40	USB Port 4 x USB 2.0, 2 x USB 3.0	Request you to keep at least 4 Ports for Two USB 3.2 Gen 1 as these are latest and available with all OEMs	Yes changed to 4 x USB 2.0, 2 x USB 3.0/3.1 / 3.2.
11.	TECHNICAL SPECIFICATIONS/Minimum Specifications – C/Computer System All-in-One with Touch screen/Point No. 01, PageNo.40	Processor Intel ® Core i7-8700 Process (6 core / 12MB / 12T/ 4.6Ghz or above	Request to change it to 10thGeneration Intel® Core™ i7-10700, 16 MB Cache, 8 Cores, 16 Threads, 2.9 GHz to 4.8 GHz, 65 W	Yes changed to 10th Generation Intel Core i7-10700, 16 MB Cache, 8 Cores, 16 Threads with minimum 2.9



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				GHz or better.
12.	TECHNICAL SPECIFICATIONS/Minimum Specifications – C/Computer System All-in-One with Touch screen/Point No. 02, Page No.40	Memory 8 GB DDR4 with 2 DIMM sockets expandable upto 32 GB	Request you to kindly modify the clause to "8 GB DDR4 with 2 DIMM sockets expandable upto 64 GB" Request you to change RAM expandability to 64 GB keeping future expansion in mind	No change.
13.	TECHNICAL SPECIFICATIONS/Minimum Specifications – C/Computer System All-in-One with Touch screen/Point No. 03, Page No.40	DVD drive 8x DWDRW	Request you to remove DVD RW option as this technology is obsolete or allow to quote external DVD RW	No change
14.	TECHNICAL SPECIFICATIONS/Minimum Specifications – C/Computer System All-in-One with Touch screen/Point No. 04, PageNo.40	Monitor Integrated 23" LED widescreen monitor with Touch Capabilities(FHD) (1920x1080) or above	Request you to modify the clause to "Integrated 23.8" LED widescreen monitor with Touch Capabilities (FHD) (1920x1080) or above" Request you to keep screen size to minimum 23.8 "	No change. The vendor has to quote minimum Integrated 23" LED widescreen monitor with Touch Capabilities (FHD) (1920x1080) or above.
15.	TECHNICAL SPECIFICATIONS/Minimum Specifications – C/Computer System All-in-One with Touch screen/Point No. 08, PageNo.41	Graphics Card Discrete graphic card NVIDIA® GeForce® GT x 1050 4, GB or above	Request you to kindly modify the clause to "NVIDIA® GeForce GTX 1650, 4 GB, GDDR5 or above"	Changed to AMD Radeon RX 560X 4GB GDDR5 /  Discrete graphic card NVIDIA GeForce GT x 1050, 4 GB GDDR5 or above or better.
16.	TECHNICAL SPECIFICATIONS/Minimum Specifications – C/Computer System All-in-One with Touch screen/Point No. 09, Page No.41	Webcam Integrated Webcam must be available with 2 MP	Request you to kindly modify the clause to "Integrated Webcam must be available with 2 MP and should have pop-up privacy feature" Also request you to include Pop-up privacy feature	No change.
17.	TECHNICAL SPECIFICATIONS/Minimum Specifications – C/Computer System All-in-	OS Windows 10.1 Professional 64 bit preloaded with recovery DVD media / software	Request you to kindly modify the clause to "Windows 10	No change. The vendor may quote higher



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	One with Touch screen/Point No. 12, Page No.41	or above	Professional 64 bit preloaded with recovery DVD media / software or above" Request to change it to Windows 10 Professional	specifications.
18.	TECHNICAL SPECIFICATIONS/Minimum Specifications – D/Computer System All-in-One (non-touch) having Ubuntu Operating System/Point No. 04, PageNO.41	Processor Family Intel Core i3 processor With Eighth Generation or better	Request you to change it to 10th Generation Intel® Core™ i3-10100T, 6 MB Cache, 4 Cores, 8 Threads, 3.0 GHz to 3.8 GHz, 35 W	Yes changed to 10th Generation Intel Core i3-10100T, 6 MB Cache, 4 Cores, 8 Threads, 3.0 GHz to 3.8 GHz or better or equivalent.
19.	TECHNICAL SPECIFICATIONS/Minimum Specifications – D/Computer System All-in-One (non-touch) having Ubuntu Operating System/Point No. 05, Page NO.41	Base Frequency Intel Core i3-8100 (4 Core / 6MB/4T/3.6 Ghz or Above	Request you to change it to 10th Generation Intel® Core™ i3-10100T, 6 MB Cache, 4 Cores, 8 Threads, 3.0 GHz to 3.8 GHz, 35 W	Yes changed to 10th Generation Intel Core i3-10100T, 6 MB Cache, 4 Cores, 8 Threads, 3.0 GHz to 3.8 GHz or better or equivalent.
20.	TECHNICAL SPECIFICATIONS/Minimum Specifications – D/Computer System All-in-One (non-touch) having Ubuntu Operating System/Point No. 10, Page No.42	Expandable Memory Upto 32 GB, at least 2 slots	Request you to kindly modify the clause to "Upto 64 GB, at least 2 slots" Please change it to 64 GB instead of 32 GB	No change. The vendor may quote higher specifications.
21.	TECHNICAL SPECIFICATIONS/Minimum Specifications – D/Computer System All-in-One (non-touch) having Ubuntu Operating System/Point No. 13, Page No.42	Operating System certificate Ubuntu-Linux16.04 LTS or above	Request you to kindly modify the clause to "Ubuntu-Linux18.04 or above" Request you to change it to Ubuntu 18.04 (64-bit) as this is Latest	Yes changed to Ubuntu-Linux 18.04 LTS and declaration/certificate is to be btained from OEM.
22.	TECHNICAL SPECIFICATIONS/Minimum Specifications – D/Computer System All-in-One (non-touch) having Ubuntu Operating System/Point No. 16, Page No. 42	Screen Type HD Wide Screen Backlit LED Anti-Glare Display	Request you to change it to Full HD	Yes changed.
23.	TECHNICAL SPECIFICATIONS/Minimum Specifications – E – 3/Scanner- ADF with Duplex/Point No. 1, Page No.44	Minimum Daily Volume 10,000 pages per day	Request you to kindly modify the clause to "9,000 pages per day" This is OEM specific request you to make it general & provide all the OEM equal chance to participation	No change



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24.	E – 3” Scanner- ADF with Duplex, Page No. 44	Imaging Features (in the scanner) Perfect Page Scanning; adaptive threshold processing; hole removal, streak filter, sharpness filter, deskew: autocrop: relative cropping: aggressive cropping: electronic color dropout; dual- stream scanning; interactive color, brightness and contrast adjustment; automatic orientation; automatic color detection; background color smoothing or equivalent	Perfect Page scanning is OEM Specific. Please remove Streak filter, Relative cropping, Interactive color keeping Industry standard term enables OEMs to participate	The vendor may quote equivalent or better specifications.
25.	E – 4” Scanner- ADF with Duplex, Page No.44	Imaging Features (in the scanner) Perfect Page Scanning; adaptive threshold processing: hole removal, streak filter, sharpness filter, deskew: auto crop: relative cropping: aggressive cropping: electronic color dropout; dual- stream scanning; interactive color, brightness and contrast adjustment; automatic orientation; automatic color detection; background color smoothing or equivalent	Perfect Page scanning is OEM Specific. Please remove Streak filter, Relative cropping, Interactive color keeping Industry standard term enables OEMs to participate	The vendor may quote equivalent or better specifications.
26.	TECHNICAL SPECIFICATIONS/Minimum Specifications – E – 5/High Speed Scanner/Point No. 4, Page No.45	Recommended Daily Volume 10,000 pages per day or Higher	Request you to kindly modify the clause to "9,000 pages per day or higher" This is OEM specific request you to make it general & provide all the OEM equal chance to participation	No change
27.	TECHNICAL SPECIFICATIONS/Minimum Specifications – E – 5/High Speed Scanner/Point No. 6, Page No.45	Scanning Technology CCD Grayscale output bit depth: 256 levels Color capture bit depth: 48-bit Color output bit depth: 24-bit	Request you to kindly modify the clause to "CCD/ CIS Scanning technology" CCD technology is used where very high scanning resolution are required for example in case of photograph etc. thus we request you to make it CIS technology	Modify to CCD/ CIS scanning technology or better specifications.



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<b>28.</b>	TECHNICAL SPECIFICATIONS/Minimum Specifications – E – 5/High Speed Scanner/Point No. 10, Page No. 45	ADF Tray Capacity 250 Pages or more	Request you to kindly modify the clause to "100 Pages " This is OEM specific request you to make it general & provide all the OEM equal chance to participation	Yes changed to 200 sheets
<b>29.</b>	E – 5" High Speed Scanner, Page No. 46	Certificates ISO, TUV, Energy Star etc.	Please removed TUV certification Industry standard, it will enable more OEMs to participate	Yes changed
<b>30.</b>	TECHNICAL SPECIFICATIONS/Minimum Specifications – I/Multifunctional Device (MFD) Network Printer/point No. 10, Page No.50	First Copy Out Time Less than 7.7 sec	Request you to kindly modify the clause to "Less than 9 sec" It is industry standard & will allow more OEM to participate	Yes changed to less than 9 second.
<b>31.</b>	TECHNICAL SPECIFICATIONS/Minimum Specifications – I/Multifunctional Device (MFD) Network Printer/point No. 22, Page No.50	Resolution- 100 x 100, 200 x 200, 300 x 300, 600 x 600 dpi	Request you to please change it to 300 dpi, 600 dpi It is industry standard & will allow more OEM to participate	Yes changed.
<b>32.</b>	TECHNICAL SPECIFICATIONS/Minimum Specifications – J/Heavy duty Digital Multifunctional Device (MFD) Machine/Point No. 10, Page No.51	First Copy Out Time Less than 7.7 sec	Request you to kindly modify the clause to "Less than 9 sec" It is industry standard & will allow more OEM to participate	Yes changed to less than 9 second.
<b>33.</b>	TECHNICAL SPECIFICATIONS/Minimum Specifications – J/Heavy duty Digital Multifunctional Device (MFD) Machine/Point No. 22, Page No.51	Resolution- 100 x 100, 200 x 200, 300 x 300, 600 x 600 dpi	Request you to please change it to 300 dpi, 600 dpi It is industry standard & will allow more OEM to participate	Yes changed
<b>34.</b>	TECHNICAL SPECIFICATIONS/Minimum Specifications – L/Multifunctional Printer All-In-One with Wi-Fi Inkjet-Colour printer/Point No. 2, Page No.52	Resolution 1200 X 1200 DPI or above	Request you to kindly modify the clause to "Upto 600x1200 dpi" Higher DPI Results in higher consumption of ink thus leads to higher cost.	Yes changed to 600x600 or above.
<b>35.</b>	TECHNICAL SPECIFICATIONS/Minimum Specifications – N/Servers/Point No. 6, Page No.54	Processor Configuration 64-bit x86 processor fully binary compatible to 32-bit applications	Request you to kindly modify the clause to " 64-bit x86 processor"	Yes changed.
<b>36.</b>	TECHNICAL SPECIFICATIONS/Minimum Specifications – N/Servers/Point No. 33, Page No.55	Details of benchmark indices with software & diagnostic software used to test server. Processor SPEC CPU2006 benchmarked with	Request to Remove SPEC CPU2006 benchmarked ratings & Replace with the Current SPEC CPU2017	Yes changed.



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		maximum 192 GB RAM to achieve SPEC rating of at least 950 or more (60% of SPECint_rate_base2006 plus 40% of SPECfp_rate_base2006 scores). Benchmark rating of quoted processor on should be published on SPEC.ORG on date of bidding.	Ratings	
37.	TECHNICAL SPECIFICATIONS/Minimum Specifications – O/Desktop Computers (Ubuntu Operating System)/Point No.4, Page No.56	Processor Family Intel Core i5 Processor with Eighth Generation or better.	Request you to please change it to 10th Gen as this is latest and available with all the Industry leading OEMs. Also, as this is Rate Contract and product has to be supplied for 1 Year duration it is advised to go with latest available generation.	Yes changed.
38.	TECHNICAL SPECIFICATIONS/Minimum Specifications – O/Desktop Computers (Ubuntu Operating System)/Point No.7, Page No.56	Motherboard & Chipset Intel Original Mother Board or better M/B based on associated Chipset with Minimum two free PCI/ PCI-x/PCI-Express slots	Request you to kindly modify the clause to "Motherboard & Chipset Intel Original Mother Board or better M/B based on associated Chipset with 1 Half Height PCIe x1 + 1 Half Height PCIe x16"	The vendor may quote better specifications i.e. two free PCI/ PCI-x/PCI-Express slots/ PCIe x1 + 1 Half Height PCIe
39.	TECHNICAL SPECIFICATIONS/Minimum Specifications – O/Desktop Computers (Ubuntu Operating System)/Point No.13, Page No.56	Operating System certificate Ubuntu-Linux16.04 LTS or Higher	Request you to kindly modify the clause to "Ubuntu-Linux18.04 or above" Request you to change it to Ubuntu 18.04 (64-bit) as this is Latest	Yes changed to Ubuntu-Linux 18.04 LTS and declaration/ certificate is to be obtained from OEM.
40.	TECHNICAL SPECIFICATIONS/Minimum Specifications – O/Desktop Computers (Ubuntu Operating System)/Point No.19, Page No. 56	Speakers Stereo Sound Speakers (Built-In with CPU Cabinet) or Monitor.	Request you to please remove Inbuilt option and allow to mount sound bar	Yes changed to Stereo sound bar /stereo speaker (Built-In with CPU Cabinet <b>OR</b> Monitor).
41.	TECHNICAL SPECIFICATIONS/Minimum Specifications – O/Desktop Computers (Ubuntu Operating System)/Point No.22, Page No.56	USB Port 4 x USB 2.0, 2 x USB 3.0	Request you to keep at least 4 Ports for Two USB 3.2 Gen 1 as these are latest and available with all OEMs	Yes changed to 4 x USB 2.0, 2 x USB 3.0/3.1 / 3.2.
42.	TECHNICAL SPECIFICATIONS/Minimum	Processor Family Intel Core i5 processor	Request you to change it to	Yes changed to 10th



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	Specifications – P/Computer System All-in-One (non-touch) having Ubuntu Operating System/point No. 4, Page No.57	with Eighth Generation or better	10th Generation Intel® Core™ i5-10400T, 12 MB Cache, 6 Cores, 12 Threads, 2.0 GHz to 3.6 GHz, 35 W	Generation Intel Core i5-10400T, 12 MB Cache, 6 Cores, 12 Threads, 2.0 GHz to 3.6 GHz or equivalent or better.
43.	TECHNICAL SPECIFICATIONS/Minimum Specifications – P/Computer System All-in-One (non-touch) having Ubuntu Operating System/point No. 5, Page No.57	Base Frequency Intel Core i5-8100 (4 Core/ 6MB/4T/3.6 Ghz or Better	Request you to change it to 10th Generation Intel® Core™ i5-10400T, 12 MB Cache, 6 Cores, 12 Threads, 2.0 GHz to 3.6 GHz, 35 W	Yes changed to 10th Generation Intel Core i5-10400T, 12 MB Cache, 6 Cores, 12 Threads, 2.0 GHz to 3.6 GHz or equivalent or better.
44.	TECHNICAL SPECIFICATIONS/Minimum Specifications – P/Computer System All-in-One (non-touch) having Ubuntu Operating System/point No. 7, Page No.57	Motherboard & Chipset Intel Original Mother Board Q 370 or above	Request you to please change it to Intel® B460 Chipset or higher	Yes changed to Intel B460 Chipset or equivalent or higher.
45.	TECHNICAL SPECIFICATIONS/Minimum Specifications – P/Computer System All-in-One (non-touch) having Ubuntu Operating System/point No. 10, Page No.57	Expandable Memory Upto 32 GB, at least 2 slots	request you to modify the clause to "Up to 64 GB, at least 2 slots" Request you to change it to 64 GB instead of 32 GB	No change
46.	TECHNICAL SPECIFICATIONS/Minimum Specifications – P/Computer System All-in-One (non-touch) having Ubuntu Operating System/point No. 13, Page No.57	Operating System certificate Ubuntu-Linux16.04 LTS or above	Request you to kindly modify the clause to "Ubuntu-Linux18.04 or above" Request you to change it to Ubuntu 18.04 (64-bit) as this is Latest	Yes changed to Ubuntu-Linux 18.04 LTS and declaration/certificate is to be obtained from OEM.
47.	TECHNICAL SPECIFICATIONS/Minimum Specifications – O/Desktop Computers (Ubuntu Operating System)/Point No.30, Page No.57	Hardware Drivers Vendor to provide for Ubuntu –Linux 16.04 LTS	Request you to kindly modify the clause to "Vendors to provide for ubuntu- Linux 18.04" Please change it to latest Ubuntu 18.04	Yes changed to 18.04 LTS" or better. (The vendor have to ensure that the provided hardware should be fully supported /compatible with OS)
48.	TECHNICAL SPECIFICATIONS/Minimum Specifications – Q/Minimum required Specifications- Laptop	Processor Intel Core i5 Processor with minimum 8th generation or higher, Integrated Graphics,	Request you to change it to latest generation i.e. 10th Generation Intel®	Yes changed to Generation10th Intel Core i5-10210U





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	Computers of reputed Make/point no. 1, Page No.58	memory Card Reader (Quad core 6MB Cache, minimum 1.6 GHz up to 3.4 GHZ ) or above.	Core™ i5- 10210U Processor (6MB Cache, up to 4.2 GHz) This is available with all the Industry leading OEMs	Processor (6MB Cache, up to 4.2 GHz) or better or equivalent.
49.	TECHNICAL SPECIFICATIONS/Minimum Specifications – P/Computer System All-in-One (non-touch) having Ubuntu Operating System/point No. 16, Page No.58	Screen Type HD Wide Screen Backlit LED Anti-Glare Display	Request you to change it to Full HD	Yes changed.
50	Specification-A Page No. 38 DESKTOP COMPUTERS (UBUNTU OPERATING SYSTEM)	Form Factor Small Form Factor with Volume less than 8 Liters	We request the dept. to kindly allow SFF less than 10 LTRS. This would ensure maximum OEM participation.	No change
51		Processor Family Intel Core i3 Processor with Eighth Generation or better processor	Since globally there are two processor manufacturer's, we request the dept. to include AMD also Ryzen R3 3200G. This would ensure fair commercial competitive pricing to the dept.	The vendor may quote equivalent or better specifications.
52.	Serial No.7	Mother Board and Chipset Intel Original Mother Board or better M/B based on associated Chipset with Minimum two free PCI/ PCI-x/PCI-Express slots	Intel / AMD Original Mother Board or better M/B based on associated Chipset with Minimum two free PCI/ PCI-x/PCI-Express slots	The vendor may quote equivalent or better specifications.
53.	---	Operating System Certificate Ubuntu-Linux 16.04 LTS.	Declaration of UBUNTU SUPPORT will be provided.	Yes changed to Ubuntu-Linux 18.04 LTS and declaration/certificate is to be obtained from OEM.
54.		Wireless IEEE 802.11 AC	We request the dept. to allow 802.11 b/g/n & IEEE 802.11 AC both.	The vendor may quote higher specifications.
55.	<b>Specification-“B”</b> DESKTOP COMPUTERS (WINDOWS OPERATING SYSTEM)	Form Factor Small Form Factor with Volume less than 8 Liters	We request the dept. to kindly allow SFF less than 10 LTRS. This would ensure maximum OEM participation.	No change
56.		Processor Family Intel Core i3 Processor with Eighth	Since globally there are two processor	The vendor may quote equivalent or



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		Generation or better.	manufacturer's, we request the dept. to include AMD also Ryzen R3 3200G. This would ensure fair commercial competitive pricing to the dept.	better specifications.
57.	S.No. 7	Mother Board and Chipset Intel Original Mother Board or better M/B based on associated Chipset with Minimum two free PCI/ PCI-x/PCI-Express slots	Intel / AMD Original Mother Board or better M/B based on associated Chipset with Minimum two free PCI/ PCI-x/PCI-Express slots Supporting Motherboard for AMD Processors is based on AMD Chipset	The vendor may quote equivalent or better specifications.
58.	Specification-"B" S.No. 17,	Intel HD or equivalent Integrated HD Graphic & sound Controller	Intel HD / AMD Radeon or equivalent Integrated HD Graphic & sound Controller AMD Ryzen 3 processor comes AMD Radeon Graphics	The vendor may quote equivalent or better specifications.
59.	--	Operating System Certificate Windows 10 Professional version and Ubuntu certified.	We request the dept. to clarify why Ubuntu certification is required on Windows PC ?	Yes changed to windows certification.
60.		Wireless IEEE 802.11 AC	We request the dept. to allow 802.11 b/g/n & IEEE 802.11 AC both.	The vendor may quote higher specifications.
61.	Specification-"D" COMPUTER SYSTEM ALL IN ONE (NON-TOUCH) HAVING UBUNTU OPERATING SYSTEM	Operating System Certificate Ubuntu-Linux16.04 LTS or above	Declaration of UBUNTU SUPPORT will be provided.	Yes changed to Ubuntu-Linux 18.04 LTS and declaration/certificate is to be obtained from OEM.
62.	SERVERS	DDR4 RAM upgradeable up-to (Minimum) (GB) 0.5 GB	We request the dept. to kindly confirm RAM upgradability required ?	Yes changed to DDR4 RAM upgradeable up-to (Minimum) (TB) 1 TB
63.	Certifications, Compliance & support by Windows, Red Hat or Novell	Latest version of Windows, Linux & Ubuntu OS (32Bit & 64Bit both) and all Industry Standard Virtualization Software. Root of Trust security enabled.	We request the dept. to incorporate TPM also for better security	No change



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64.	---	Server scalability to be achieved within the box & without adding nodes	We request the dept. to kindly clarify what is meant by scalability here?	Adding more resources to Server.
65.	--	Availability of documentary evidence in support of model quoted in commercial production & due evaluation completed	We request the dept. to clarify which document is required is to be submitted ?	Yes documentary evidence in support of model quoted in commercial is required.
66.		Details of benchmark indices with software & diagnostic software used to test server. Processor SPEC CPU2006 benchmarked with maximum 192 GB RAM to achieve SPEC rating of at least 950 or more (60% of SPECint_rate_base2006 plus 40% of SPECfp_rate_base2006 scores). Benchmark rating of quoted processor on should be published on SPEC.ORG on date of bidding.	We request the dept. to request for SPEC 2017 Bench mark, since 2006 is EOL	Yes changed
67.	Specification "O" DESKTOP COMPUTER (UBUNTU OPERATING SYSTEM)	Form Factor Small Form Factor with Volume less than 8 Liters	We request the dept. to kindly allow SFF less than 10 LTRS. This would ensure maximum OEM participation.	No change
68.	---	Base Frequency 3.6 Ghz or Higher	Processor frequency to be changed from 3.6Ghz to 2.9 Ghz or Higher since i5 processor is required	Yes 2.9 Ghz or Higher or better.
69.	---	Operating System Certificate Ubuntu-Linux16.04 LTS or higher	Declaration of UBUNTU SUPPORT will be provided.	Yes changed to Ubuntu-Linux 18.04 LTS and declaration/certificate is to be obtained from OEM.
70.	--	Wireless IEEE 802.11 AC	We request the dept. to allow 802.11 b/g/n & IEEE 802.11 AC both.	The vendor may quote higher specification.
71.	Specification- "P" COMPUTER SYSTEM ALL IN ONE (NON-TOUCH) HAVING UBUNTU OPERATING SYSTEM	Base Frequency Intel Core i5-8100 (4 Core/6MB/4T/3.6 Ghz or better	8100 is an i3 processor, kindly help to change it to i5 9400 or better. (Intel Core i5-9400 (6 Core/9MB/2.9 Ghz or better	Yes changed to 10th Generation Intel Core i5-10400T, 12 MB Cache, 6 Cores, 12 Threads, 2.0



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				GHz to 3.6 GHz or equivalent or better.
72.		Motherboard & Chipset Intel Original Mother Board Q 370 or above	We request the dept. to allow B series/Q series. This would ensure fair and maximum participation	Yes changed to Intel B460 Chipset or equivalent or higher
73.		Operating System Certificate Ubuntu-Linux16.04 LTS or above	Declaration of UBUNTU SUPPORT will be provided.	Yes changed to Ubuntu-Linux 18.04 LTS and declaration/certificate is to be obtained from OEM.
74.	Specification-"Q" LAPTOP COMPUTER	Processor Intel Core i5 Processor with minimum 8 th generation or higher, Integrated Graphics, memory Card Reader (Quad core 6MB Cache, minimum 1.6 GHz up to 3.4 GHZ ) or above.	Since Intel has launched latest 10th Gen processors, Hence we request the dept. to change this to Corei5 with min. 10th Gen 1.6 upto 4.2Ghz, 6 MB Cache	Yes changed to Generation10th Intel Core i5-10210U Processor (6MB Cache, up to 4.2 GHz) or better or equivalent.
75.	--	Keyboard Yes, Spill resistant.	We request the dept. to change this to Spill Resistant Backlit Keyboard for better productivity in low light	No change
76.	--	Random Access Memory 8 GB DDR4 RAM 1600 MHz expandable up to 16 GB RAM.	We request the dept. to change this clause to 8GB DDR4 expandable upto 64GB with 2 Physical DIMM slots keeping future expandability in mind	No change
77.	--	Battery Up to 6 Hrs. (maximum at optimum performance)	We request the dept. to change this clause to 45Whr battery or more with upto 10 hrs. battery backup for better performance	No change
78.		Weight Preferable less than 2.5 Kg	We request the dept. to kindly change this to 1.7kgs or below with thickness of less than 20mm, since laptops need to be lightweight and senior	Yes changed the vendor may quote less weight Laptop Computer but not more than 2.5 kg.



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			officials would be carrying the same.	
79.		WLAN 802.11 a/ac and integrated module with Bluetooth 4.0	We request this clause to be change to WIFI 6+BT 5.0 which is latest technology, better connectivity and speed	Yes changed to 802.11 a/ac and integrated module with Bluetooth 5.0 or better
80.		I/O (Input / Output) Ports Minimum three USB ports (2 x USB 3.0 & x 2.0) ,Audio/Mic Combo  ,1 HDMI, 1 VGA,	We request the dept. to change this to min. 4 USB 3.0 ports for better connectivity of latest devices.	Yes changed to I/O (Input / Output) Ports  Minimum three USB ports (2 x USB 3.0 & 1x 2.0),Audio/Mic Combo ,1 HDMI or better
81.		DVD Drive Reads and Writes toDVD/CD	Since now a days all latest laptops do not come with ODD option hence kindly allow external ODD option as acceptable	<b>DVD / CD Writer not required.</b>
82.		Energy Star certification 5.0 or above / BEE versions 1.0 or above.	We request the dept. also include MIL Std certification as this would add to the robustness of the machine and material used and also Hardware TPM 2.0 to enable encryption of the data	No change, but the vendor may quote higher technology certification.
83.	Specification-“G”	Capacity /Rating  Rating (VA)UPS 1500 VA /600Watt	1500VA /900 Watt	No change
84.	Specifications-“N” Servers S.No. 7	Number of core per Processor 12 or more with each core	it should be 2nd Generation Intel® Xeon® Scalable	The vendor may quote higher



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		supporting Multi Thread	Processors	specifications.
85.	--	PCI Slots (Express Gen 3.0 min.) One Free	To be removed	Yes changed/ deleted.
86.	--	Memory ( DDR4 RAM min.) (GB) 128 GB DDR4-2400 MHz or better	it should be TruDDR4 2933MHz	No change, the vendor may quote higher specifications.
87.		DDR4 RAM upgradeable upto (Minimum) (GB)  0.5 GB	Server should support memory up-to 3TB	Yes changed to DDR4 RAM upgradeable up-to (Minimum) (TB) 1 TB
88.		Video Controller (support VGA or above resolution)  Yes with minimum 4GB GDDR5 Dedicated buffer memory having memory bandwidth of at least 80GBps.	Changed to 1x NVIDIA Quadro P4000 8GB PCIe Active GPU	The vendor may quote higher specifications.
89.	---	Bays (min. 2 internal or more hot plug) 5	Server should support 24 Quantity of HDD	The vendor may quote higher specifications.
90.	--	DVD ROM (or better)  Yes Internal/External)	External USB	Yes changed to External USB
91.	--	Networking: dual LAN (10/100/1000) network card with asset feature tracking & security management, remote wake up Yes	Server should configure with Dual 1G Ports & supported for 10G Ports	Yes changed
92.	--	Details of benchmark indices with software & diagnostic software used to test server.  Processor SPEC CPU2006 benchmarked with maximum 192 GB RAM to achieve SPEC rating of at least 950 or more (60% of SPECint_rate_base2006 plus 40% of SPECfp_rate_base2006 scores). Benchmark rating of quoted processor on should be published on SPEC.ORG on date of bidding.	SPEC CPU2006 is very old Benchmarking. You will not find any latest Processor in this Benchmarking hence you should go with SPEC CPU 2017.	Yes changed
93.	--	Warranty (years)  5 Years OEM on-site comprehensive.	It should be 5 Years 24 x 7 support with 4 Hours Response Time	Yes changed



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94.	---	(HDD Retention)	(HDD Retention)	(HDD Retention)
			<b>Faulty HDD will not be returned to Vendor</b>	<b>Faulty HDD will not be returned to Vendor</b>
95.	Page No-33, SLA, 6.7.1	The Service window for all the equipment would be 24x7x365.	We request Honorable court to kindly change it to 9am to 6 PM from Monday to Saturday , Excluding National holidays.	Yes changed to 9:00 AM to 06: 00 P.M. from Monday to Saturday, excluding National Holidays excepts in the case of servers (servers should be 5 Years 24 x 7 support with 4 Hours Response Time)
96.	Page No: 44, Scanner E -3	Feeder Capacity: 100 Pages	we request Honorable court to kindly change it to 60-80 pages.	No change
97.	Scanners	Consumables	Kindly clarify consumables are part of warranty or not	Consumable will be the part of warranty and support.
98.	<b>SPECIFICATION –A</b> S.No. 12	Preloaded Operating System  Ubuntu / Free DOS/ Without OS (Ubuntu with all required drivers & plugins)	Free DOS	Yes changed to Ubuntu 18.04 Operating System (pre-loaded).
99.	S.No. 13	Operating System certificate Ubuntu-Linux 16.04 LTS.	Ubuntu-Linux 18.04 LTS.	Yes changed to Ubuntu-Linux 18.04 LTS and declaration/ certificate is to be obtained from OEM.
100.	S.No. 15	Screen Size & Resolution 18.5 inch TFT LED Monitor (HD Resolution) <b>or higher</b> with TCO6 certification	19.5"	The vendor may quote higher specifications.
101.	S.No. 19	Speakers  Stereo Sound Speakers (Built-In with CPU Cabinet or Monitor.	Mono Speaker built in CPU cabinet	Yes changed to Stereo sound bar /stereo speaker (Built-In with CPU Cabinet <b>OR</b> Monitor).
102.	S.No. 30	Hardware Drivers  Vendor to provide for Ubuntu – Linux 16.04 LTS	Drivers would be integrated in HP ISO image of Ubuntu for 18.04 LTS	Yes changed to 18.04 LTS” or better. (The vendor have to ensure that the provided



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				hardware should be fully supported /compatible with OS)
103.	<b>SPECIFICATION –B</b> S.No.15	Screen Size & 18.5 inch TFT LED Monitor (HD	19.5	The vendor may quote higher specifications.
104.	S.No.19	Speakers Stereo Sound Speakers (Built-In with CPU Cabinet or Monitor.	Mono speaker in CPU cabinet	Yes changed to Stereo sound bar /stereo speaker (Built- In with CPU Cabinet <b>OR</b> Monitor).
105.	S.No.30	Hardware Drivers  Vendor to provide drivers	Drivers for Windows 10 only	No change
106.	<b>SPECIFICATION –C</b> S.No.08	Graphics Card, Discrete graphic card NVIDIA® GeForce® GT x 1050 4, GB or above	AMD® Radeon RX 560X 4GB GDDR5	Yes changed to AMD Radeon RX 560X 4GB GDDR5 /  Discrete graphic card NVIDIA GeForce GT x 1050, 4 GB GDDR5 or above or better.
107.	<b>SPECIFICATION –D</b> S.No.12	Preloaded Operating System Ubuntu / Free DOS / Without OS (Ubuntu with all required drivers & plug- in)	FreeDOS	Yes changed to Ubuntu 18.04 Operating System (pre- loaded).
108.	S.No.13	Operating System certificate Ubuntu- Linux16.04 LTS or above	Ubuntu-Linux 18.04 LTS	Yes changed to Ubuntu- Linux 18.04 LTS and declaration/ certificate is to be obtained from OEM.
109.	S.No.25	USB Port 4 x USB 2.0, 2 x USB 3.0 or better	4 x USB 3.0, 1 USB Type C	Yes changed to 4 x USB 2.0, 2 x USB 3.0/3.1 / 3.2.
110.	S.No.33	Hardware Drivers  Vendor to provide for Ubuntu –Linux 16.04 LTS	Drivers would be integrated in HP OEM Ubuntu image of 18.04 LTS	Yes changed to 18.04 LTS" or better. (The vendor have to ensure that the provided hardware should be fully supported





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				/compatible with OS)
111.	<b>SPECIFICATION –O</b> S.No.4	Processor Family <b>Intel Core i5 Processor</b> with eighth Generation or better.	9TH GENERATION 9500	Yes changed to to 10th Gen or better.
112.	S.No.5	Base Frequency 3.6 Ghz or Higher	3.0 Ghz or higher	Yes 2.9 Ghz or Higher or better (10 <sup>th</sup> Generation).
113.	S.No.12	Preloaded Operating System Ubuntu/ Free DOS/ Without OS (Ubuntu with all required drivers & plugins)	Free DOS	Yes changed to Ubuntu 18.04 Operating System (pre-loaded).
114.	S.No.13	Operating System certificate Ubuntu-Linux16.04 LTS or higher	Ubuntu-Linux 18.04 LTS.	Yes changed to Ubuntu-Linux 18.04 LTS and declaration/ certificate is to be obtained from OEM.
115.	S.No.15	Screen Size & Resolution 18.5 inch TFT LED Monitor (HD Resolution) or higher with TCO6 certification	19.5"	The vendor may quote higher screen size.
116.	S. No. 17	Graphic Processor Intel HD or equivalent Integrated HD Graphic & Sound Controller	Intel HD / AMD Radeon or equivalent Integrated HD Graphic & sound Controller AMD Ryzen 5 processor comes AMD Radeon Graphics	No change.
117.	S.No.19	Speakers Stereo Sound Speakers (Built-In with CPU Cabinet or Monitor)	Mono Speaker built in CPU cabinet	Yes changed to Stereo sound bar /stereo speaker (Built-In with CPU Cabinet <b>OR</b> Monitor).
118.	S.No.30	Hardware Drivers Vendor to provide for Ubuntu –Linux 16.04 LTS	Drivers would be integrated in HP ISO image of Ubuntu for 18.04 LTS	No change
119.	<b>SPECIFICATION –P</b> Sr. No.5	Base Frequency Intel Core i5-8100 (4 Core/6MB/4T/3.6GHz or better)	it need to be corrected for core i5 8500 Intel® Core™ i5-8500 Processor 3.0 GHz base frequency Up to 4.1 GHz max. turbo	Yes changed to 10th Generation Intel Core i5-10400T, 12 MB Cache, 6 Cores, 12 Threads, 2.0 GHz to 3.6



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			frequency with Intel® Turbo Boost Technology 9 MB cache, 6 cores, 6 threads	GHz or equivalent or better.
120.	Sr. No.12	Preloaded Operating System Ubuntu / Free DOS / Without OS (Ubuntu with all required drivers & plug-in)	Free DOS	Yes changed to Ubuntu 18.04 Operating System (pre-loaded).
121.	Sr. No.13	Operating System certificate Ubuntu-Linux16.04 LTS or above	Ubuntu-Linux 18.04 LTS	Yes changed to Ubuntu-Linux 18.04 LTS and declaration/certificate is to be obtained from OEM.
122	Sr. No.25	USB Port 4 x USB 2.0, 2 x USB 3.0	4 x USB 3.0, 1 USB Type C	Yes changed to 4 x USB 2.0, 2 x USB 3.0/3.1 / 3.2.
123	Sr. No.33	Hardware Drivers Vendor to provide for Ubuntu – Linux 16.04 LTS	Drivers would be integrated in HP OEM Ubuntu image of 18.04 LTS	Yes changed to 18.04 LTS" or better. (The vendor have to ensure that the provided hardware should be fully supported /compatible with OS)
124.	<b>SPECIFICATION –Q</b> Sr. No.1	<b>Processor</b> Intel Core i5 Processor with minimum 8th generation or higher, Integrated Graphics, memory Card Reader (Quad core 6MB Cache, minimum 1.6 GHz up to 3.4 GHz ) or above.	Intel® Core i5-10210U processor with Intel® UHD Graphics, Premium (1.6 GHz base frequency, up to 4.2 GHz with Intel® Turbo Boost Technology, 6 MB L3 cache, 4 cores)	Yes changed to latest generation i.e. 10th Generation Intel Core i5-10210U Processor (6MB Cache, up to 4.2 GHz) or better.
125.	Sr. No.2	<b>Operating System</b> Windows 10 Professional (64 bit) Operating System & Ubuntu Linux OS ( <b>Dual Bootable</b> )	Single boot (Win 10 or Ubuntu)	No change
126.	Sr. No.10	<b>I/O (Input / Output) Ports</b> Minimum three USB ports (2 x USB 3.0 & x 2.0) ,Audio/Mic Combo ,1 HDMI, 1 VGA,	VGA N/A	Yes changed to I/O (Input / Output)  Ports Minimum three USB  ports (2 x USB 3.0 & 1x  2.0),Audio/Mic Combo ,1



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				HDMI or better
127	Sr. No.13	DVD Drive Reads and Writes to DVD/CD	External DVD RW	DVD / CD Writer not required.
128	Sr. No.16	Antivirus Antivirus of reputed brand (Quick Heal, Norton, Mcafee & Bid Defender etc.) with Five year validity and support.	Bidder scope	Yes, bidder scope.
129	Page No.47	“Minimum Specifications – F” Line Interactive UPS System of 1000 VA with minimum half an hour power backup on full load, Sr. No: 05 / Specification / Others / Alarm  Fault-Overload /Replace Battery / Mains Fail / Low Battery	Request you to please delete "Replace Battery" clause. Because this features comes with limited OEM's only and MPHC will have maximum no. of competition quotes.	No change.
130.	Page No.47	“Minimum Specifications – G” Line Interactive UPS System of 1500 VA with minimum half an hour power backup on full load, Sr. No: 01 / Specification / Rating VA  UPS 1500 VA / 600Watt	Request you please change with 1500VA/ 600Watt to 1000VA/600 Watt. As wattage output is similar to 1000VA/600 Watt.	No change.
131	Page No.48	“Minimum Specifications – G” Line Interactive UPS System of 1500 VA with minimum half an hour power backup on full load, Sr. No: 05 / Specification / Others / Alarm  Fault-Overload /Replace Battery / Mains Fail / Low Battery	Request you to please delete "Replace Battery" clause. Because this features comes with limited OEM's only and MPHC will have maximum no. of competition quotes.	No change.
132.	EMD amount 20 lacs and Turnover Amount 5 crore	EMD amount 20 lacs and Turnover Amount 5 crore	Kindly segregate EMD & Turnover as per the category especially for A3 & A4 MFD & Printers.	Rs.3,00,000/- EMD only for those bidder who are going to quote only MFD Category (specification – <b>i and j</b> ) of the tender.  The Turnover amount changed to Rs.50 Lakh only for those bidder who are going to quote only under MFD Category



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				(specification – <b><u>i and j</u></b> ) of the tender and <b><u>condition no. 2.15.2</u></b> shall be evaluated accordingly.
133	-	-	EMD Point no 2.5.1: Request you to amend the EMD amount @2% of the Cost of Multifunction machine as we are dealing only in MFD A3 size (Specification I & J).	Rs.3,00,000/- EMD only for those bidder who are going to quote only MFD Category (specification – i and j) of the tender.  The Turnover amount changed to Rs.50 Lakh only for those bidder who are going to quote only under MFD Category (specification – i and j)
134.	-	-	Turnover Point no 2.15.1: If we are quoting only MFD then Average Annual Turnover of the bidder should be 30% of Cost of MFD only.	Rs.3,00,000/- EMD only for those bidder who are going to quote only MFD Category (specification – i and j) of the tender.  The Turnover amount changed to Rs.50 lakh only for those bidder who are going to quote only under MFD Category (specification – i and j) of the tender and <b><u>condition no. 2.15.2</u></b> shall be evaluated accordingly.
135.	-	-	Technical Specification in Category I Multifunction Device: Kindly delete Point no 1 ADF and Platen. It is only with Platen: Yes.	It should be Platen Cover.
136.	-	-	Technical Specification in	<b>Not required.</b>



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			<p>Category J Multifunction Device: Kindly add Hard Disk of 256 GB in the specification part as Esteemed office are purchasing Heavy Duty Multifunction machine in this category.</p>	
137.	-	-	<p>Technical Specification in Category J Multifunction Device: Kindly add Automatic Document Feeder: Required in the specification (Delete point no 2 Platen Cover: Yes)</p>	<p>Yes changed, in place of Platen Cover, quote the machine with Reverse Automatic Document Feeder (RADF)</p>
138.	-	-	<p>Since bid contains multiple products and as an OEM/ distributor it may not be possible to deal with every products which will restrict OEM or their distributor to participate in the bid hence we request Hon'able Registrar to kindly allow OEM's or their Authorized Distributors/ Channel Partners to participate in this Tender for specific Item.</p>	<p>Yes Permitted</p>
139.	-	-	<p>As per Point No. 2.5.1 the cost of the EMD which is 20 Lakh, since we are dealing with only one product i.e Multifunction Device (MFD) Network Printer, the approximate tender value will be around 80 Lakh we request you to kindly amend the same to 1.5 Lakh.</p>	<p>Rs.3,00,000/- EMD only for those bidder who are going to quote only MFD Category (specification – <b>i and j</b>) of the tender.</p> <p>The Turnover amount changed to Rs.50 Lakh only for those bidder who are going to quote only under MFD Category (specification –</p>



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				i and j) of the tender and <b>condition no. 2.15.2</b> shall be evaluated accordingly.
140.	-	-	As per the Eligibility / Pre-Qualification Criteria point No. 2.15.1 Since the tender value for Multifunction machines (MFD) is approximately 80Lakh, we request you to kindly amend the turnover criteria to 50-100 Lakh so that the department may have maximum participation & better competition.	Rs.3,00,000/- EMD only for those bidder who are going to quote only MFD Category (specification – i and j) of the tender.  The Turnover amount changed to Rs.50 Lakh only for those bidder who are going to quote only under MFD Category (specification – i and j) of the tender and <b>condition no. 2.15.2</b> shall be evaluated accordingly.
141.	-	-	As per the Eligibility/Pre-Qualification Criteria point No. 2.15.2, Since the market size of A3 size Multifunction machines (MFD) is limited and it may not be possible for various OEMS to have single order of 120 MFD, hence we request you to kindly amend the same as cumulative orders in last one/ two/three years.	The Turnover amount changed to Rs.50 Lakh only for those bidder who are going to quote only under MFD Category (specification – i and j) of the tender and <b>condition no. 2.15.2</b> shall be evaluated accordingly.
142.	Category "I" Multifunction Device (MFD) Network	-	For the Technical Specifications in <b>Category "I" Multifunction Device (MFD) Network Printer:</b> A) Specification No. 8 : The Hon'able Court is procuring Computer Hardware of the latest specifications	Specification in Category "I" Multifunction Device (MFD) Network is changed to 25 PPM.



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			<p>keeping in mind of the fact that these equipments will be used for a minimum period of 5 years. As you are aware that the workload on these equipments will increase month after month. In view of this the Multifunction Machines which are being procured with other hardware should be capable enough to handle such workloads. As you are aware that the technology has changed a lot in last so many years we request to change the basic specifications of multifunction machines i.e copying speed / Print Speed to Minimum 25 PPM instead of 20 PPM.</p>	
143.	-	-	<p>B) Specification No. 9 : Since these machines will be deployed for multiple users on Network, machine Should have higher RAM to ensure better spooling time , and to avoid any conflict . We request to change the RAM capacity from Minimum 128 MB to Minimum 512 MB.</p>	<p>No change, the vendor may quote higher / better specifications or equivalent.</p>
144.	-	-	<p>C) Print Category Point No. 15 : Since these machines will be used for next five years we request you to buy the product which are future ready. In order to have so we request you to amend the GDI Printing /PCL5e/ PCL6/ XPS to GDI Printing /PCL5e/</p>	<p>No change, the vendor may quote higher / better specifications or equivalent.</p>



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			PCL6/ XPS /Post Script S3. This will enhance the print quality of spurious documents being copied	
145.	Category "I" Multifunction Device (MFD) Network	-	D) Scanner Category Point No. 23 : We request to have SCAN to USB feature which allows the user to take the scanned document without the need to use a PC while scanning.	Quote as per the tender document
146.	-	-	6. For the Technical Specifications in Category "J" Heavy Duty Multifunction Device (MFD)	No change
147.	-	-	Network Printer:- A) Specification No. 09 : Std Memory of machine : As the Hon'ble court needs higher end Multifunction device it must have minimum RAM of 3 GB or more & should have Hard Disk Capacity of 250GB or more. Machines with these basic specifications are considered as Heavy duty. In case these are not amended the Hon'able court will not get the right product as desired.	No change, but the vendor may quote higher specifications.
148.	Category "J" Heavy Duty Multifunction Device (MFD)	-	B) Heavy duty machine must have two cassettes. Hence we request <b><u>you to add this</u></b> parameter in the bid.	Yes changed to minimum two cassettes.
149.	Page No. 38 Specifications – A	USB Port : 4 x USB 2.0, 2 x USB 3.0	USB Port : 2 x USB 2.0, 4 x USB 3.1	Yes changed to 4 x USB 2.0, 2 x USB 3.0/3.1 / 3.2.





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<b>150.</b>	Page No. 40 Specifications – B	USB Port : 4 x USB 2.0, 2 x USB 3.0	USB Port : 2 x USB 2.0, 4 x USB 3.1	Yes changed to 4 x USB 2.0, 2 x USB 3.0/3.1 / 3.2.
<b>151.</b>	Page No. 40 Specifications – C	Processor: Intel ® Core i7-8700 Process (6 core /12MB / 12T/ 4.6Ghz or above	Processor: Intel Core i7-10700 Processor (8 core /16 MB / 16T/ 2.9 Ghz or above	Yes changed to 10th Generation Intel Core i7-10700, 16 MB Cache, 8 Cores, 16 Threads with minimum 2.9 GHz or equivalent or better.
<b>152.</b>	Page No. 40 Specifications – C	Memory: 8 GB DDR4 with 2 DIMM sockets expandable upto 32 GB	Memory: 8 GB DDR4 with 2 DIMM sockets expandable upto 64 GB	No change
<b>153.</b>	Page No. 41 Specifications – C	Graphics Card : Discrete graphic card NVIDIA® GeForce® GT x 1050 4, GB or above	Graphics Card : Discrete graphic card 2 GB or above	Changed to AMD Radeon RX 560X 4GB GDDR5 / Discrete graphic card NVIDIA GeForce GT x 1050 4, GB GDDR5 or equivalent or better.
<b>154.</b>	Page No. 41 Specifications – C	OS: Windows 10.1 Professional 64 bit preloaded with recovery DVD media /software or above	OS: Windows 10 Professional 64 bit preloaded	No change.
<b>155.</b>	Page No. 41 Specifications – C	Power: Energy Star 5.2 Compliance, Screen Blanking, Hard Disk and System Management Idle Mode in Power On. Set up Password. Power Supply Surge environmental protected. EPEAT compliant. Certified with Green Peace rating of 5 and standards above (OR) any other similar rating or certification that aims at green brand PC.	Power: ENERGY STAR 8.0, EPEAT Silver rating, Power-on, admin, hard disk password, Boot sequence control, Boot without keyboard and mouse, Individual USB port disablement, Smart USB protection, allows keyboard/ mouse only, blocks all storage devices	The vendor may quote higher specifications.
<b>156.</b>	Page No. 56 Specifications – O	Base Frequency 3.6 Ghz or Higher	Base Frequency: 2.9 Ghz or Higher	Yes 2.9 Ghz or Higher
<b>157.</b>	Page No. 56 Specifications – O	USB Port : 4 x USB 2.0, 2 x USB 3.0	USB Port : 2 x USB 2.0, 4 x USB 3.1	Yes changed to 4 x USB 2.0, 2 x USB

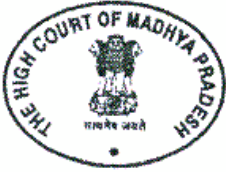


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				3.0/3.1 / 3.2.
158.	Page No. 59 Specifications – Q	Display : The screen to be non-touch with 14" Diagonal FHD (1920x1080) Antiglare Display and scratch resistant with Metallic Hinges.	Display : The screen to be non-touch with 14" Diagonal FHD (1920x1080) Antiglare Display with Metallic Hinges (PI remove scratch resistant)	No change
159.	Page No. 59 Specifications – Q	Keyboard : Yes, Spill resistant.	Keyboard: Yes, Spill resistant , backlit (Essential feature while working at low light)	No change
160.	Page No. 59 Specifications – Q	Webcam :720 P HD Webcam Dual Microphone in place of 2.0 MP-HD with Dual Microphone	Webcam ::720P HD CAMERA WITH ARRAY MIC	No change, the vendor may quote higher / better specifications or equivalent.
161.	Page No. 59 Specifications – Q	I/O (Input / Output) Ports Minimum three USB ports (2 x USB 3.0 & x 2.0) Audio/Mic Combo ,1 HDMI, 1 VGA,	I/O (Input / Output) Ports Minimum three USB ports (2 x USB 3.0 & x 2.0) ,Audio/Mic Combo ,1 HDMI (PI remove VGA port)	Yes changed to I/O (Input / Output) Ports  Minimum three USB ports (2 x USB 3.0 & 1x 2.0) ,Audio/ Mic Combo ,1 HDMI or better
162.	Page No. 59 Specifications – Q	DVD Drive :Reads and Writes to DVD/CD	PI remove DVD Drive or make it as external	DVD / CD Writer not required.
163.	Page No. 59 Specifications – Q	Energy Star certification 5.0 or above / BEE versions 1.0 or above.	Energy Star certification 5.0 or above / BEE versions 1.0 or above.PI add MILSTD 810G for Durability	No change, but the vendor may quote higher technology certifications.
164.	<b>New Point</b> Specifications – Q	<b>New Point ADDED</b>	Warranty :5 years onsite warranty on laptop and 2 years warranty on batteries	The Laptop Computers to be supplied with 5 year comprehensive warranty and on battery the minimum warranty of 2 years.
165.	Minimum Specifications –K High Speed Network Laser Jet Printer  S.No. 4	Memory 512 MB	256 MB,  Request to amend RAM to 256 MB which is Industry standard specific for this PPM	No change



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			category of Printers and which is restricting all major reputed OEM (Original Equipment Manufacturers) and their Channel Partners available in India to quote against this Tender and your department will be not getting sufficient participation and healthy competition in terms of prices and features of the machine.	
166.	<p>Minimum Specifications – M Duplex Network Laser printer with Wi-Fi</p> <p>S.No. 6</p>	<p>Networking</p> <p>10 Base T/100 Base Tx networking ETHERNET Connectivity , built-in Ethernet, WiFi 802.11ac</p>	<p>Yes, Wi-Fi- Not Required/Optional, Since data security is biggest concern to every organization it is always recommended that the products are deployed on the secured network as desired specially in Judiciary/Defence where all IT equipment's are working on Ubuntu OS due to secured reasons so that sharing/usage of important, sensitive data is restricted only till user level (As authorized by administrator) while doing so guest users/ unauthorized users does not get the permission to use the same. We have executed bulk orders of MP High court /Delhi High Court/Mumbai High Court/Rajasthan High Court/Punjab and Haryana High Court etc. where all SFP/MFP are network ready without Wi-Fi as it will be economical also as Wi-Fi</p>	No change



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			enabled machines are costly as compared to Network Ready Machines and also will help to make saving in National Exchequer. Hence we would request you to kindly remove this feature from specification or make it optional and go with Network Ready Machines.	
167.	Minimum Specifications – H” Page No. 49		In 5 KVA UPS specification input power factor two times – kindly clear the same.	Delete Point No. 8 in <b><u>Specifications – H</u></b>
168.	Specifications – A Desktop Computers (Ubuntu Operating System)  Page No. 38 and 39, Sr. No. 2	Small Form Factor with Volume less than 8 Liters	Small Form Factor with Volume less than 11 Liters  For Maximum OEM participation	No change
169.	Sr. No. 4	Processor Family  <b>Intel Core i3 Processor with Eighth Generation or better processor</b>	Intel Core i3 Processor with Eighth Generation <b><u>or AMD Ryzen 3 Processor</u></b> or better processor  AMD Ryzen 3 processor is equivalent or higher processor in performance as compared to Intel Core i3 8th Generation processor	The vendor may quote equivalent or better specifications.
170.	S.No.7	Motherboard & Chipset, Intel Original Mother Board or better M/B based on associated Chipset with Minimum two free PCI/ PCI-x/PCI-Express slots	Intel / <b>AMD</b> Original Mother Board or better M/B based on associated Chipset with Minimum two free PCI/ PCI-x/PCI-Express slots Supporting Motherboard for AMD processors is based on AMD Chipset	The vendor may quote equivalent or better mother board.
171.	S.No.13	Operating System certificate, Ubuntu-Linux16.04 LTS.	Ubuntu-Linux16.04 LTS <b><u>or higher</u></b> , Current OEM systems do	Yes changed to Ubuntu-Linux 18.04 LTS and



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			not have Ubuntu 16.04 LTS Certification.	declaration/certificate is to be obtained from OEM.
172.	S.No.17	Graphic Processor  Intel HD or equivalent Integrated HD Graphic & sound Controller	Intel HD / <b>AMD Radeon</b> or equivalent Integrated HD Graphic & sound Controller  AMD Ryzen 3 processor comes AMD Radeon Graphics	The vendor may quote equivalent or better specifications.
173.	S.No.30	Hardware Drivers  Vendor to provide for Ubuntu – Linux 16.04 LTS	Vendor to provide for Ubuntu – Linux 16.04 LTS <b>or higher</b>  Current OEM systems do not have Ubuntu 16.04 LTS Certification.	Yes changed to 18.04 LTS" or better. (The vendor have to ensure that the provided hardware should be fully supported /compatible with OS)
174.	Minimum Specifications – B” Desktop Computers (Windows Operating System)  Sr. No.2	Form Factor  Small Form Factor with Volume less than 8 Liters	Small Form Factor with Volume less than <b>11</b> Liters  For Maximum OEM participation	No change
175.	Sr. No.4	Processor Family  <b>Intel Core i3 Processor with Eighth Generation</b> or better processor	Intel Core i3 Processor with Eighth Generation <b>or AMD Ryzen 3 Processor</b> or better processor  AMD Ryzen 3 processor is equivalent or higher processor in performance as compared to Intel Core i3 8th Generation processor.	The vendor may quote equivalent or better specifications.
176.	Sr. No.7	Motherboard & Chipset , Intel Original Mother Board or better M/B based on associated Chipset with Minimum two free PCI/ PCI-x/PCI-Express slots	Intel / <b>AMD</b> Original Mother Board or better M/B based on associated Chipset with Minimum two free PCI/ PCI-x/PCI-Express slots Supporting Motherboard for AMD processors is based on AMD Chipset	The vendor may quote equivalent or better specifications.



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<b>177.</b>	Sr. No.17	Graphic Processor  Intel HD or equivalent Integrated HD Graphic & sound Controller	Intel HD / <b>AMD Radeon</b> or equivalent Integrated HD Graphic & sound Controller  AMD Ryzen 3 processor comes AMD Radeon Graphics	The vendor may quote equivalent or better specifications.
<b>178.</b>	Minimum Specifications – O” Desktop Computers (Ubuntu Operating System)  Sr. No.2	Form Factor  Small Form Factor with Volume less than 8 Liters	Small Form Factor with Volume less than <b>11</b> Liters  For Maximum OEM participation	No change
<b>179.</b>	S.No.4	Processor Family  <b>Intel Core i5 Processor with Eighth Generation</b> or better processor	Intel Core i5 Processor with Eighth Generation <b>or AMD Ryzen 5 Processor</b> or better processor  AMD Ryzen 5 processor is equivalent or higher processor in performance as compared to Intel Core i3 8th Generation processor	The vendor may quote equivalent or better specifications.
<b>180.</b>	S.No. 7	Motherboard & Chipset  Intel Original Mother Board or better M/B based on associated Chipset with Minimum two free PCI/ PCI-x/PCI-Express slots	Intel / <b>AMD</b> Original Mother Board or better M/B based on associated Chipset with Minimum two free PCI/ PCI-x/PCI-Express slots Supporting Motherboard for AMD Processors is based on AMD Chipset	The vendor may quote equivalent or better specifications.
<b>181.</b>	S.No. 13	Operating System certificate Ubuntu-Linux16.04 LTS.	Ubuntu-Linux16.04 LTS <b>or higher</b>  Current OEM systems do not have Ubuntu 16.04 LTS Certification.	Yes changed to Ubuntu-Linux 18.04 LTS and declaration is to be obtained from OEM.
<b>182.</b>	S.No. 17	Graphic Processor  Intel HD or equivalent Integrated HD Graphic & sound Controller	Intel HD / <b>AMD Radeon</b> or equivalent Integrated HD Graphic & sound	The vendor may quote equivalent or better specifications.



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			Controller AMD Ryzen 5 processor comes AMD Radeon Graphics	
183	S.No. 30	Hardware Drivers  Vendor to provide for Ubuntu – Linux 16.04 LTS	Vendor to provide for Ubuntu – Linux 16.04 LTS <b>or higher</b>  Current OEM systems do not have Ubuntu 16.04 LTS Certification.	Yes changed to 18.04 LTS" or better. (The vendor have to ensure that the provided hardware should be fully supported /compatible with OS)
184.	Minimum Specifications – Q" "Minimum required Specifications-Laptop Computers  S.No.1	Processor  Intel Core i5 Processor with minimum 8th generation or higher, Integrated Graphics, memory Card Reader (Quad core 6MB Cache, minimum 1.6 GHZ up to 3.4 GHZ ) or above.	Intel Core i5 Processor with minimum 8th generation or AMD Ryzen 5 or higher, Integrated Graphics, memory Card Reader (Quad core 6MB Cache, minimum 1.6 GHZ up to 3.4 GHZ ) or above.  AMD Ryzen 5 processor is equivalent or higher processor in performance as compared to Intel Core i3 8th Generation processor	No change
185.	S.No.10	I/O (Input / Output) Ports Minimum three USB ports (2 x USB 3.0 & x 2.0) ,Audio/Mic Combo ,1 HDMI, 1 VGA,	Minimum three USB ports (2 x USB 3.0 & 1 x 2.0) ,Audio/Mic Combo ,1 HDMI, 1 VGA,  <b>OR</b> Minimum three USB ports (2 x USB 3.0 & 1 x 2.0) ,Audio/Mic Combo ,1 HDMI, 1 VGA (built in or with converter)  Modern laptops with OEMs come with slim chassis hence they do not have VGA Port. Hence if VGA is not required we request you to remove it or else ask for a converter.	Yes VGA removed from the specifications.



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On the basis of queries of various bidders, the overall final technical specifications for compliance are updated/modified as under:-

**“Minimum Specifications – A”  
Desktop Computers (Ubuntu Operating System)  
Brand: Dell / HP / IBM or equivalent brand of repute**

S. No.	Description	Specification	Specification Changed	Technical Compliance YES/NO
01	Category	Business (for work) segment (not Home Segment) (Full Commercial)		
02	Form Factor	Small Form Factor with Volume less than 8 Liters		
03	Make, Model/ Part No.	(to be given by the bidder- At the time of Technical Evaluation)		
04	Processor Family	<b>Intel Core i3 Processor</b> with <b>Eighth Generation</b> or better processor	Yes changed to <b>10th Gen</b>	
05	Base Frequency	3.6 Ghz or Higher		
06	Processor Cache	As per Processor		
07	Motherboard & Chipset	Intel Original Mother Board or better M/B based on associated Chipset with Minimum two free PCI/ PCI-x/PCI-Express slots	The vendor may quote better specifications i.e. two free PCI/ PCI-x/PCI-Express slots/ PCIe x1 + 1 Half Height PCIe	
08	TDP (Thermal Design)	Not More than 65 W		
09	System Memory (RAM)	4 GB , 2400Mhz DDR-IV Memory or Higher	8GB DDR IV RAM or higher	
10	Expandable Memory	Upto 32 GB, at least 2 slots		
11	Hard Disk	Integrated Dual Port SATA III controller, HDD 1 TB, 7200 RPM or more		
12	Preloaded Operating System	Ubuntu / Free DOS/ Without OS (Ubuntu with all required drivers & plugins)	Yes changed to Ubuntu 18.04 Operating System (pre-loaded).	
13	Operating System certificate	Ubuntu-Linux16.04 LTS.	Yes changed to Ubuntu-Linux 18.04 LTS and declaration/ certificate is to be obtained from OEM.	





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14	System Architecture	64- Bit		
15	Screen Size & Resolution	18.5 inch TFT LED Monitor (HD Resolution) or higher with TCO6 certification	The vendor may quote higher specifications	
16	Screen Type	HD Wide Screen Backlit LED Anti-Glare Display		
17	Graphic Processor	Intel HD or equivalent Integrated HD Graphic & sound Controller	The vendor may quote equivalent or better specifications.	
18	Pointer Device & Keyboard	OEM USB Optical scrolling Mouse, OEM USB Standard 104 Keys Keyboard		
19	Speakers	Stereo Sound Speakers (Built-In with CPU Cabinet or Monitor).	Yes changed to Stereo sound bar /stereo speaker (Built-In with CPU Cabinet <b>OR</b> Monitor).	
20	Ethernet	Integrated Gigabit Ethernet Controller with Ipv6 Complaint		
21	Wireless	IEEE 802.11 AC	The vendor may quote higher specifications.	
22	USB Port	4 x USB 2.0, 2 x USB 3.0	Yes change to 4 x USB 2.0, 2 x USB 3.0/3.1 / 3.2 or better	
23	Other Ports	Mic In, Speaker Out, Rj45, VGA / Display Port out / HDMI <b>or better</b>		
24	Power Supply/ Adaptor	Optimum Wattage SMPS to support full use of system with all USB ports utilized		
25	Energy Certification	Energy Star (EPA) ver 5.0 or later/ BEE India Star ver 1 or latest		
26	EPEAT Certified	Yes Required		
27	Power Management	ACPI Complaint		
28	USB Ports Security	USB Port Disable (through BIOS)		
29	Security Lock	Optional		
30	Hardware Drivers	Vendor to provide for Ubuntu – Linux 16.04 LTS	Yes changed to 18.04 LTS" or better. (The vendor have to ensure that the	



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			provided hardware should be fully supported /compatible with OS)	
31	OEM Product	Original Equipment Manufacturer (OEM) Manufacture or its authorized distributors/ dealers with OEM		
32	Warranty	5 Years on site Comprehensive Warranty support with Level 1 Support from bidder and Level 2 support from OEM		
33	Service Centre	Must have Company Authorized Service Centre in Capital City / High Court Place		

**“Minimum Specifications – B”**

**Desktop Computers (Windows Operating System)**

**Brand: Dell / HP / IBM or equivalent brand of repute**

S.No.	Description	Specification	Specification Changed	Technical Compliance YES/NO
01	Category	Business (for work) segment (not Home Segment) (Full Commercial)		
02	Form Factor	Small Form Factor with Volume less than 8 Liters		
03	Make, Model/ Part No.	(to be given by the bidder- At the time of Technical Evaluation)		
04	Processor Family	<b>Intel Core i3 Processor</b> with <b>Eighth Generation</b> or better.	Yes changed to 10th Generation or better	
05	Base Frequency	3.6 Ghz or Higher		
06	Processor Cache	As per Processor		
07	Motherboard & Chipset	Intel Original Mother Board or better or equivalent M/B based on associated Chipset with Minimum two free PCI/ PCI-x/PCI-x/PCI-Express slots	The vendor may quote better specifications i.e. two free PCI/ PCI-x/PCI-Express slots/ PCIe x1 + 1 Half Height PCIe	
08	TDP (Thermal Design)	Not More than 65W		
09	System Memory (RAM)	4 GB , 2400Mhz DDR-IV Memory or Higher	8 GB DDR-IV RAM or better	
10	Expandable Memory	Upto 32GB, at least 2 slots		
11	Hard Disk	Integrated Dual Port SATA III controller, HDD 1 TB, 7200 RPM or more		



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12	Preloaded Operating System	Windows 10 Professional version (along with all required drivers & plugins)(64 bit)		
13	Operating System certificate	Windows 10 Professional version and Ubuntu certified.	Yes changed to windows certification.	
14	System Architecture	64- Bit		
15	Screen Size & Resolution	18.5 inch TFT LED Monitor (HD Resolution) or higher with TCO6 certification	The vendor may quote higher specifications.	
16	Screen Type	HD Wide Screen Backlit LED Anti-Glare Display		
17	Graphic Processor	Intel HD or equivalent Integrated HD Graphic & sound Controller	The vendor may quote equivalent or better specifications.	
18	Pointer Device & Keyboard	OEM USB Optical scrolling Mouse, OEM USB Standard 104 Keys Keyboard		
19	Speakers	Stereo Sound Speakers (Built-In with CPU Cabinet or Monitor).	Yes changed to Stereo sound bar /stereo speaker (Built-In with CPU Cabinet <b>OR</b> Monitor).	
20	Ethernet	Integrated Gigabit Ethernet Controller with Ipv6 Complaint		
21	Wireless	IEEE 802.11 AC	The vendor may quote higher specifications.	
22	USB Port	4 x USB 2.0, 2 x USB 3.0	Yes change to 4 x USB 2.0, 2 x USB 3.0/3.1 / 3.2.	
23	Other Ports	Mic In, Speaker Out, Rj45, VGA / Display Port out / HDMI <b>or better</b>		
24	Power Supply/ Adaptor	Optimum Wattage SMPS to support full use of system with all USB ports utilized		
25	Energy Certification	Energy Star (EPA) ver 5.0 or later/ BEE India Star ver 1 or later		
26	EPEAT Certified	Yes Required		
27	Power Management	ACPI Complaint		
28	USB Ports Security	USB Port Disable (through BIOS)		
29	Security Lock	optional		
30	Hardware Drivers	Vendor to provide drivers		
31	OEM Product	Original Equipment Manufacturer (OEM) Manufacture or its authorized distributors/ dealers with OEM		



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32	Warranty	5 Years on site Comprehensive Warranty support with Level 1 Support from bidder and Level2 support from OEM		
33	Service Centre	Must have Company Authorized Service Centre in Capital City/ High Court Place.		

**“Minimum Specifications – C”**  
**Computer System All-in-One with Touch screen**  
**(Windows Operating System)**

S.No.	Description	Specification	Specification Changed	Technical Compliance YES/NO
01	Processor	Intel ® Core i7-8700 Process (6 core / 12MB / 12T/ 4.6Ghz or above	Yes changed to 10th Generation Intel Core i7-10700, 16 MB Cache, 8 Cores, 16 Threads with minimum 2.9 GHz or equivalent or better.	
02	Memory	8 GB DDR4 with 2 DIMM sockets expandable upto 32 GB		
03	DVD drive	8x DWDRW		
04	Monitor	Integrated 23” LED widescreen monitor with Touch Capabilities(FHD) (1920x1080) or above	No change. The vendor have to quote minimum Integrated 23” LED widescreen monitor with Touch Capabilities(FHD) (1920x1080) or above.	
05	Keyboard and Optical Mouse	Wireless Keyboard and mouse		
06	Interface	Integrated 10/100/1000		
07	Hard Drive	1 TB SATA 3G Hard Disk Drive (7200 rpm)		
08	Graphics Card	Discrete graphic card NVIDIA® GeForce® GT x 1050 4, GB or above	Yes changed to AMD Radeon RX 560X 4GB GDDR5 / Discrete graphic card NVIDIA GeForce GT x 1050 4, GB GDDR5 or equivalent or better.	
09	Webcam	Integrated Webcam must be available with 2 MP		
10	Audio features	Stereo Sound system.		
11	Wireless	Wireless NIC 802.11 AC Mini Card and Integrated Bluetooth 4.2 or above		



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12	OS	Windows 10.1 Professional 64 bit preloaded with recovery DVD media / software or above	No change. The vendor may quote higher specifications.	
13	Warranty	5 Year Comprehensive Onsite Warranty		
14	Power	Energy Star 5.2 Compliance, Screen Blanking, Hard Disk and System Management Idle Mode in Power On. Set up Password. Power Supply Surge environmental protected. EPEAT compliant. Certified with Green Peace rating of 5 and standards above (OR) any other similar rating or certification that aims at green brand PC.	The vendor may quote higher specifications.	
15	OEM Product	Original Equipment Manufacturer (OEM) Manufacture or its authorized distributors/ dealers with OEM		
16	Warranty	5 Years on site Comprehensive Warranty support with Level 1 Support from bidder and Level2 support from OEM		
17	Service Centre	Must have Company Authorized Service Centre in Capital City/ High Court Place		

**“Minimum Specifications – D”**

**Computer System All-in-One (non-touch) having Ubuntu Operating System**

S.No.	Description	Specification	Specification Changed	Technical Compliance YES/NO
01	Category	Business (for work) segment (not Home Segment) (Full Commercial)		
02	Form Factor	All in one		
03	Make, Model/ Part No.	(to be given by the bidder- At the time of Technical Evaluation)		
04	Processor Family	<b>Intel Core i3 Processor with Eighth Generation</b> or better	Yes changed to 10th Generation Intel Core i3-10100T, 6 MB Cache, 4 Cores, 8 Threads, 3.0 GHz to 3.8 GHz or better or equivalent.	
05	Base Frequency	Intel Core i3-8100 (4 Core / 6MB/4T/3.6 Ghz or above	Yes changed to 10th Generation Intel Core i3-10100T, 6 MB Cache, 4 Cores, 8 Threads, 3.0 GHz to 3.8 GHz or better or equivalent.	



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06	Processor Cache	As per Processor		
07	Motherboard & Chipset	Intel Original Mother Board or better performance chipset for quoted processor based mother board or above		
08	TDP (Thermal Design)	Not More than 65 W		
09	System Memory (RAM)	4 GB, 2400 Mhz DDR-IV Memory or Higher	8 GB, 2400 Mhz DDR-IV Memory or Higher	
10	Expandable Memory	Upto 32 GB, at least 2 slots	No change. The vendor may quote higher specifications.	
11	Hard Disk	Integrated Dual Port SATA III controller, HDD 1 TB, 7200 RPM or more / above		
12	Preloaded Operating System	Ubuntu / Free DOS / Without OS (Ubuntu with all required drivers & plug-in)	Yes changed to Ubuntu 18.04 Operating System (pre-loaded).	
13	Operating System certificate	Ubuntu-Linux16.04 LTS or above	Yes changed to Ubuntu-Linux 18.04 LTS and declaration/certificate is to be obtained from OEM.	
14	System Architecture	64- Bit		
15	Screen Size & Resolution	Non touch Screen with 21.5" (full HD Resolution) or higher with OEM certification		
16	Screen Type	HD Wide Screen Backlit LED Anti-Glare Display	Full HD	
17	Graphic Processor	Intel HD or equivalent Integrated HD Graphic & sound Controller.		
18	Monitor Mounting Support	Vesa Screws Cover for Wall Mount (OPTIONAL)		
19	Web Camera	2.0 Megapixel 1080P HD Built In <b>Webcam or Higher</b> side		
20	Pointer Device & Keyboard	OEM USB Optical scrolling Mouse, OEM USB Standard 104 Keys Keyboard		
21	Microphone	Digital Microphone		
22	Speakers	Stereo Sound Speakers (Built-In)		
23	Ethernet	Integrated Gigabit Ethernet Controller with Ipv6 Complaint		
24	Wireless	IEEE 802.11 ac		
25	USB Port	4 x USB 2.0, 2 x USB 3.0 or	Yes change to 4 x USB 2.0, 2 x USB	



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		better	3.0/3.1 / 3.2 or better.	
26	Other Ports	Mic In, Speaker Out, Rj45, VGA/HDMI/Display Port Out		
27	Power Supply/ Adaptor	External Power A.C. Adaptor		
28	Energy Certification	Energy Star (EPA) version 5.0 or later/ BEE India Star version 1 or later		
29	EPEAT Certified	Yes Required		
30	Power Management	ACPI Complaint		
31	USB Ports Security	USB Port Disable (through BIOS)		
32	Security Lock	optional		
33	Hardware Drivers	Vendor to provide for Ubuntu – Linux 16.04 LTS	Yes changed to 18.04 LTS" or better. (The vendor have to ensure that the provided hardware should be fully supported /compatible with OS)	
34	OEM Product	Original Equipment Manufacturer (OEM) Manufacture or its authorized distributors/ dealers with OEM		
35	Warranty	5 Years on site Comprehensive Warranty support with Level 1 Support from bidder and Level2 support from OEM		
36	Service Centre	Must have Company Authorized Service Centre in Capital City / High Court Place		

**“Minimum Specifications – E – 1”**  
**Scanner- Flatbed & ADF**

S.No.	Make & Model	Must be specified. All the relevant product brochures and manuals must be submitted	Technical Compliance YES/NO
01	Scan Type	Flatbed & ADF	
02	Scan Speed	Minimum 20 pages per minute (A4 size) or higher	
03	Resolution	600 x 600 dpi or above	
04	Bit Depth	24-bit color / 48-bit color	
05	Paper Capacity	Minimum 50 sheets ADF or above	
06	Interface	USB 2.0 or above	



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07	OEM Product	Original Equipment Manufacturer (OEM) Manufacture or its authorized distributors/ dealers with OEM	
08	Warranty	5 Years on site Comprehensive Warranty support with Level 1 Support from bidder and Level2 support from OEM	
09	Service Centre	Must have Company Authorized Service Centre in Capital City / High Court Place	
10	Operating System	The scanner should support both Windows and Linux Operating System.	

**“Minimum Specifications – E – 2”**  
**Scanner- ADF with Duplex**

S.No.	Make & Model	brochures and manuals must be submitted	Technical Compliance YES/NO
01	Scan Type	ADF	
02	Scan Speed	<b>Minimum 40 ppm</b>	
03	Resolution	600 x 600 dpi or above	
04	Duplex Scanning	Automatic	
05	Paper Capacity	50 plus sheets ADF (20lb / 80g/ m2) paper	
06	Interface	USB 2.0 or compatible	
07	OEM Product	Original Equipment Manufacturer (OEM) Manufacture or its authorized distributors/ dealers with OEM	
08	Warranty	5 Years on site Comprehensive Warranty support with Level 1 Support from bidder and Level2 support from OEM	
09	Service Centre	Must have Company Authorized Service Centre in Capital City / High Court Place	
10	Operating System	The scanner should support both Windows and Linux Operating System.	

**“Minimum Specifications – E – 3”**  
**Scanner- ADF with Duplex**

S. No.	Specifications	Description	Specification Changed	Technical Compliance YES/NO
01	Minimum Daily Volume	10,000 pages per day		
02	Throughput Speed	Up to 60 ppm/120 ipm		
03	Optical Resolution	600 dpi or better		
04	Illumination	Dual led technology or better technology.		
05	Output resolution	100, 200, 300, 400, 600 dpi or		





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		above		
06	Paper Thickness and Weight	40-210 g/m <sup>2</sup> paper		
07	Feeder	Minimum 100 sheets of 60 g/m <sup>2</sup>		
08	Multi-feed Detection	With ultrasonic technology or better.		
09	Connectivity	USB 2.0 or better		
10	Bundled Software	TWAIN, ISIS, Drivers etc.		
11	Imaging Features (in the scanner)	Perfect Page Scanning; adaptive threshold processing: hole removal, streak filter, sharpness filter, deskew: autcrop: relative cropping: aggressive cropping: electronic color dropout; dual-stream scanning; interactive color, brightness and contrast adjustment; automatic orientation; automatic color detection; background color smoothing <u>or equivalent</u>	The vendor may quote equivalent or better specifications.	
12	File format Outputs	Single and multi-page TIFF, JPEG, PDF, searchable PDF and PDF/A advance or equivalent		
13	Operating System	The scanner should support both Windows and Linux Operating System.		

**“Minimum Specifications – E – 4”**  
**Scanner- ADF with Duplex**

S. No.	Specifications	Description	Specification Changed	Technical Compliance YES/NO
01	Minimum Daily Volume	4000 pages per day		
02	Throughput Speed	50 ppm / 100 ipm		
03	Optical Resolution	600 dpi		
04	Illumination	Dual led / 3 color RGB led or equivalent / better technology		
05	Output resolution	100, 200, 300, 400, 600, dpi or above		
06	Paper Thickness and Weight	40 – 210 g/m <sup>2</sup>		
07	Feeder	Minimum 60 – 80 sheets		
08	Multi-feed Detection	With ultrasonic technology or better technology.		
09	Connectivity	USB 2.0 or better		
10	Bundled Software	TWAIN, ISIS or equivalent Imaging Architecture Drivers and for LINUX		
11	Imaging Features (in the scanner)	Perfect Page Scanning; adaptive threshold processing: hole removal, streak filter, sharpness filter, deskew: autcrop: relative cropping: aggressive cropping: electronic color dropout;	The vendor may quote equivalent or better	



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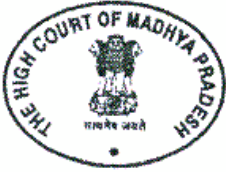
**PRINCIPAL SEAT – JABALPUR**

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		dual-stream scanning; interactive color, brightness and contrast adjustment; automatic orientation; automatic color detection; background color smoothing <i>or equivalent</i>	specifications.	
12	File format Outputs	Single and multi-page TIFF, JPEG, PDF, searchable PDF and PDF/A advance		
13	Operating System	The scanner should support both Windows and Linux Operating System.		

**“Minimum Specifications – E – 5”**  
**High Speed Scanner**

Sr.No	Parameter	Minimum required technical specifications	Specification Changed	Technical Compliance YES/NO
1	Make and Model No.	Exact details to be provided by the bidder with its official brochure)		
2	Scanning Options	Color, Grayscale, Black & White (Lineart) etc.		
3	Scanner Type	ADF Auto Duplex Scanning with Integrated Flatbed		
4	Recommended Daily Volume	10,000 pages per day or higher		
5	Throughput Speeds (200 dpi landscape, letter-size, black-and-white, grayscale, color)	60 PPM		
6	Scanning Technology	CCD Grayscale output bit depth: 256 levels Color capture bit depth: 48-bit Color output bit depth: 24-bit	CCD/ CIS scanning technology or better.	
7	Optical Resolution	600 dpi		
8	Output resolution	100 to 600 DPI,		
9	Maximum Document Size	A4, Letter, FS, post card, Envelop and other pages etc.		
10	ADF Tray Capacity	250 Pages or more	Yes changed to 200 sheets or better.	
11	Connectivity	USB 2.0 or higher		
12	Imaging Features (in the scanner)	Automatic Image Orientation, Blank Page Removal, Automatic Crop & De-Skew, Image enhancement, batch separation, document merge		
13	File Format Outputs	Single and multi-page TIFF, JPEG, PDF, searchable PDF/A & PDF.		



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14	Environmental Factors	ENERGY STAR qualified scanners; Operating temperature: 15-32.5° C; Operating humidity: 15% to 80% RH		
15	Supporting Drivers and Bundle Software	TWAIN, ISIS, SANE, Windows Imaging Architecture Drivers, Scanning Software	TWAIN, ISIS, SANE, Windows Imaging Architecture Drivers, Scanning Software or equivalent or better	
16	Supporting Operating System	Windows 10, Windows 8.1 Pro & SL (32 bit & 64 bit), Windows 7 (32 bit & 64 bit), Linux Ubuntu		
17	Hardware Drivers	Supplier to provide latest drivers for all hardware for Ubuntu-Linux OS		
18	Paper Thickness/Weight	Weight: 34 to 413 gsm		
19	Other features required	Multi feed Detection (Required to stops double feeding), Mixed Document Feeding (Diff. Size & Thickness Fed Together), Crushed pages scan		
20	Certificates	ISO, TUV, Energy Star etc.	Removed TUV certification Industry standard	

**“Minimum Specifications – F”**

**Line Interactive UPS System of 1000 VA with minimum half an hour power backup on full load**

**Brand: Numeric / APC / Emerson or equivalent brand of repute**

S. No	Specifications	Description		Technical Compliance YES/NO
01	Capacity / Rating	Rating (VA)	UPS 1000 VA / 600 Watts	
02	MAINS	Input Voltage Range (VAC)	160-280	
		Input Frequency	45-55Hz	
		Output Voltage	190-253VAC	
03	INVERTER	Output Voltage (AC)	230 V	
		Transfer Time	<4 ms (typical)	
		Output Voltage (AC) Regulation	230 ± 10%	
		Output Frequency	50 Hz or 60Hz	
		Output Wave form	Simulated/stepped sine wave	
		System Voltage (VDC)	24	
04	BATTERY (Sealed Lead Acid)	Backup Time	<b>Minimum 30 minutes</b>	
		No. of Batteries	<b>Two number of minimum 7 AH batteries (12 V, 7</b>	



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	Maintenance Free)		ahX2) of reputed make like Exide / quanta / rocket / Panasonic or equivalent brand of repute.	
		Recharge Time	6-8 hrs for 90% Charge	
05	OTHERS	Indicators	ON Mains/ Mains Fail/ ON BATT/ Low BATT/ FAULT-OVERLOAD	
		Alarm	Fault-Overload / Replace Battery / Mains Fail / Low Battery	
		Over Load Protection	Yes required	
		Cold Start	Yes required	
		AC Surge Protection	Yes required	
06	Certifications	ISO 9001, ISO 14001 certificate and BIS certificate.	Yes required	
07	OEM Product	Original Equipment Manufacturer (OEM) Manufacture or its authorized distributors/ dealers with OEM	Yes required	
08	Warranty	5 Years on site Comprehensive Warranty support with Level 1 Support from bidder and Level2 support from OEM	Yes required	
09	Service Centre	Must have Company Authorized Service Centre in Capital City / High Court Place	Yes required	

**“Minimum Specifications – G”**

**Line Interactive UPS System of 1500 VA with one minimum one hour backup on full load**

**Brand: Numeric / APC / Emerson or equivalent brand of repute**

S.No.	Specifications	Description		Technical Compliance YES/NO
01	Capacity / Rating	Rating (VA)	UPS 1500 VA / 600Watt	
02	MAINS	Input Voltage Range (VAC)	160-280	
		Input Frequency	45-55Hz	
		Output Voltage	190-253VAC	
03	INVERTER	Output Voltage (AC)	230 V	
		Transfer Time	<4 ms (typical)	
		Output Voltage (AC) Regulation	230 ± 10%	



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		Output Frequency	50 Hz or 60Hz	
		Output Wave form	Simulated/stepped sine wave	
		System Voltage (VDC)	24	
04	BATTERY (Sealed Lead Acid Maintenance Free)	Backup Time	<b>Minimum One Hour</b>	
		No. of Batteries	<b>Two numbers of minimum 9 ah batteries (12 V, 9ahX2) of reputed make Exide / rocket / Panasonic or equivalent brand of repute.</b>	
		Recharge Time	6-8 hours for 90% Charge	
05	OTHERS	Indicators	ON Mains/ Mains Fail/ ON BATT/ Low BATT/ FAULT-OVERLOAD	
		Alarm	Fault-Overload / Replace Battery / Mains Fail / Low Battery	
		Over Load Protection	Yes required	
		Cold Start	Yes required	
		AC Surge Protection	Yes required	
06	Certifications	ISO 9001, ISO 14001 certificate and BIS certificate	Yes required	
07	OEM Product	Original Equipment Manufacturer (OEM) Manufacture or its authorized distributors/ dealers with OEM		
08	Warranty	5 Years on site Comprehensive Warranty support with Level 1 Support from bidder and Level2 support from OEM		
09	Service Centre	Must have Company Authorized Service Centre in Capital City / High Court Place		

**“Minimum Specifications – H”**

**UPS 5 KVA (online) with minimum one hour backup**

**Brand: Numeric / APC / Emerson or equivalent brand of repute**

S.No.	Parameter	Minimum specification required	Specification Changed	Technical Compliance YES/NO
01	Product certification	ISO 9001-2000, ISO 14001 certified and BIS certificate		
02	Type	Online		
03	Capacity required	5 KVA		
04	Minimum VAH required	<b>8060 VAH or above</b>		
05	Switchover/ Transfer Time	<4 ms in synch mode, <10 ms in un synch mode		
06	Input Power	230V AC +/- 20%, Single		

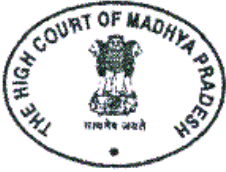


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		phase		
07	Input Frequency	0.8 or higher		
08	Input Power factor	0.75 or higher		
09	Output Power	Single phase 230V AC, +/- 1%,		
10	Output Frequency	50 Hz, +/- 2%		
11	Overall efficiency	>90%		
12	Total Harmonic Distortion	<3% THD		
13	Battery recharge time	< 8 hours for 90% of total AH capacity		
14	Battery back-up time at full load	Minimum one Hour Battery Backup at full-load.		
15	Batteries	Valve Regulated Lead Acid (VRLA) Sealed Maintenance free batteries with enclosure of reputed make like Exide/ Panasonic/ Amron Quanta.		
16	Voltage regulator	Built-in		
17	Bypass switch	Dynamic bypass switch, built-in		
18	RFI & EMI Filter	Built-in		
19	Inverter Overload	125% for 10 minutes, 150% for 10 secs.		
20	Load protection function	Automatic and graceful shutdown of the load (PC) in event of battery capacity reaching discharge. The software shall save user data automatically, shutdown the application program and operating system.		
21	Event management function	Capable to record historical data, events and send event details through email, SNMP compatible		
22	Network Interface port	1 no. 10/ 100 Mbps port for UPS monitoring on Network		
23	Display meters on UPS	Voltmeter, Ammeter, Frequency meter, Battery Voltage & Current, Load Utilization Percentage		
24	Annunciation & Alarms	Potential free alarm contacts (NO/ NC) for AC input fail, Battery Total Discharged conditions. Local audible and visual alarms on the UPS panel.		



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25	Cabinet and enclosure	Fire resistant, Metallic enclosure, Corrosion resistant or equivalent		
26	Battery Cabinet	Battery cabinet for safety of batteries.		
27	OEM Product	Original Equipment Manufacturer (OEM) Manufacture or its authorized distributors/ dealers with OEM		
28	Warranty	5 Years on site Comprehensive Warranty support with Level 1 Support from bidder and Level2 support from OEM		
29	Service Centre	Must have Company Authorized Service Centre in Capital City / High Court Place		

**“SPECIFICATIONS – i”**

**Multifunctional Device (MFD) Network Printer**

S.No.	Specifications	Description	Specification Changed	Technical Compliance YES/NO
<b>MINIMUM SPECIFICATIONS</b>				
1	Copying Type	ADF and platen	It is Platen cover.	
2	Platen Cover	Yes		
3	Scan Once Print Many	Yes Required		
4	Copy/Print Process	Indirect Electrostatic Photographic Method (Dry Process) / laser technology or equivalent		
5	Copying Resolution	600 x 600 dpi or better		
6	Scanning Resolution	600 x 600 dpi or better		
7	Printing Resolution	600 x 600 dpi or better		
8	Copying Speed	Minimum 20 CPM	Yes changed to 25 CPM	
9	Std Memory of machine	Minimum 128 MB		
10	First Copy Out Time	Less than 7.7 sec	Yes changed to less than 9 second.	
11	Multiple Copying	Up to 99 Copies		
12	Reduction/Enlargement	From 25% to 400%		
13	Image Density Control	Text-Photo / Text		
14	Power Stabilizer	Inbuilt / out side		
<b>P R I N T (auto-duplex unit)</b>				



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15	Std Printer	GDI Printing /PCL5e/ PCL6/ XPS or better		
16	Print Speed	Minimum 20 PPM	Minimum 25 PPM	
17	Interface	High Speed USB 2.0		
18	Network Interface and protocol	10 Base-T / 100 Base-TX , TCP / IP Protocol		
19	Paper type	A3, A4, Legal etc.		
20	Operating Systems	Should support Windows , Linux Operating System, SUSE Operating Systems		
<b>SCANNER</b>				
21	Std Scan	TWAIN compliant , Scan to PC, from ADF or platen		
22	Resolution	100 x 100, 200 x 200, 300 x 300, 600 x 600 dpi	Changed to 300 dpi, 600 dpi	
23	Interface	High Speed USB 2.0 /3.0	Quote as per the tender document	
24	Output format	Tiff, pdf , PDF-A with advance scanning options and output		
25	Energy Star compliance / BIS certified	Yes required		

**“Minimum Specifications – J”**

**Heavy duty Digital Multifunctional Device (MFD) Machine**

S.No.	Specifications	Description	Specification Changed	Technical Compliance YES/NO
<b>MINIMUM SPECIFICATIONS</b>				
01	Copying Type	Automatic document feeder (ADF)		
02	Platen Cover	Yes	Yes changed in place of Platen Cover, quote the machine with Reverse Automatic Document Feeder (RADF)	
03	Scan Once Print Many	Yes Required		
04	Copy/Print Process	Indirect Electrostatic Photographic Method (Dry Process) / laser technology or equivalent		
05	Copying Resolution	600 x 600 dpi or better		
06	Scanning Resolution	600 x 600 dpi or better		





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07	Printing Resolution	600 x 600 dpi or better		
08	Copying Speed	Minimum 30 CPM		
09	Std Memory of machine	Minimum 1 GB or above		
10	First Copy Out Time	Less than 7.7 sec	Yes changed to less than 9 second.	
11	Multiple Copying	Up to 999 Copies		
12	Reduction/Enlargement	From 25% to 400%		
13	Image Density Control	Text-Photo / Text		
14	Power Stabilizer	Inbuilt / out built		
<b>PRINT (Auto duplex unit)</b>				
15	Std Printer	GDI Printing		
16	Print Speed	Minimum 30 PPM		
17	Interface	USB 2.0 / USB 3.0		
18	Network Interface and protocol	10 Base-T / 100 Base-TX , TCP / IP Protocol		
19	<b>Paper type</b>	<b>A3, A4, Legal etc.</b>		
20	Operating Systems	Should support Windows , Linux Operating System, SUSE Operating Systems		
<b>SCANNER</b>				
21	Std Scan	TWAIN compliant , Scan to PC, Email and FTP		
22	Resolution	100 x 100, 200 x 200, 300 x 300, 600 x 600 dpi	Changed to 300 dpi, 600 dpi or better	
23	Interface	High Speed USB 2.0 / 3.0		
24	Output format	Tiff, pdf with advance scanning options and output		
25	OEM Product	Original Equipment Manufacturer (OEM) Manufacture or its authorized distributors/ dealers with OEM		
26	Warranty	5 Years on site Comprehensive Warranty support with Level 1 Support from bidder and Level2 support from OEM		
27	Service Centre	Must have Company Authorized Service Centre in Capital City/ High Court Place		
28	Energy star certified / BEE Certified / BIS certified	Yes Required		
29	<b>New Point ADDED:-</b> Minimum two cassettes/ Machine must have two	Yes Required		



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	cassettes		
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**“Minimum Specifications –K”**  
**High Speed Network Laser Jet Printer**

S. No.	Specifications	Description	Technical Compliance YES/NO
01	Print Speed	35 ppm or above (Black) (A4 size)	
02	First page out	Less than 10 sec	
03	Resolution	600 X 600 DPI or above	
04	Memory	512 MB	
05	Network Interface	10/100/1000 Mbps Ethernet interface	
06	Duplex	Automatic Duplex capability	
07	Paper Capacity	250 sheets on standard input tray, 100 sheets on multipurpose tray	
08	Operating system required	Windows and Linux Ubuntu 16.04	
09	Monthly Duty Cycle	80,000 copies	
10	Interface	Parallel or High Speed USB 2.0 with cable	
11	Energy star/ BEE Certified / BIS certified	Yes Required	
12	Operating System	Ubuntu Linux and Windows operating system	
13	OEM Product	Original Equipment Manufacturer (OEM) Manufacture or its authorized distributors/ dealers with OEM	
14	Warranty	5 Years on site Comprehensive Warranty support with Level 1 Support from bidder and Level2 support from OEM	
15	Service Centre	Must have Company Authorized Service Centre in Capital City / High Court Place	

**“Minimum Specifications – L”**  
**Multifunctional Printer All-In-One with Wi-Fi Inkjet- Colour printer**

S. No.	Features	Print, copy , Scan & Fax	Specification Changed	Technical Compliance YES/NO
01	Print /Copy Speed	20 ppm or above (Black) (A4 size) (normal) 16 ppm or above(Colour) (A4 size) (normal)		
02	Resolution	1200 X 1200 DPI or above	Yes changed to 600x600 or above.	
03	Paper Capacity	250 sheets on standard input tray or above		



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04	Scan	Flatbed and ADF scan (Both)		
05	Interface	USB 2.0 with cable		
06	Duplex	Automatic		
07	Energy Star / BEE certification / BIS certificate	Yes required		
08	OEM Product	Original Equipment Manufacturer (OEM) Manufacture or its authorized distributors/ dealers with OEM		
09	Warranty	5 Years on site Comprehensive Warranty support with Level 1 Support from bidder and Level2 support from OEM		
10	Service Centre	Must have Company Authorized Service Centre in Capital City / High Court Place		

**“Minimum Specifications – M”  
Duplex Network Laser printer with Wi-Fi**

S.No.	Items	Minimum Specifications	Technical Compliance YES/NO
01	Print Speed	Minimum 25 ppm	
02	Resolution	600 x 600 dpi and above	
03	Memory	128 MB RAM	
04	duty cycle	Minimum 8000 pages per month	
05	Port	High Speed USB port	
06	Networking	10 Base T/100 Base Tx networking ETHERNET Connectivity , built-in Ethernet, WiFi 802.11ac	
07	Printing	Automatic Duplex printing : A4, LEGAL, LETTER	
08	Operating System supported	Ubuntu Linux, Red hat , Windows Operating System	
09	Energy star/ BEE Certified / BIS certified	Yes Required	
10	OEM Product	Original Equipment Manufacturer (OEM) Manufacture or its authorized distributors/ dealers with OEM	
11	Warranty	5 Years on site Comprehensive Warranty support with Level 1 Support from bidder and Level2 support from OEM	
12	Service Centre	Must have Company Authorized Service	



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	Centre in Capital City / High Court Place	
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**“Minimum Specifications – N”**

**Servers of Reputed Make and Brand like HP/Dell/or equivalent brand of reputed**

S.No.	Parameter	Detailed Specifications	Specification Changed	Technical Compliance YES/NO
01	Form Factor	Rack Mount (Maximum 2U)		
02	Processor Make	X86 Architecture		
03	Max. Number of sockets available on chipset	2		
04	Max. Number of sockets populated with processor	2		
05	No. of Processor	2		
06	Processor Configuration	64-bit x86 processor fully binary compatible to 32-bit applications	Yes changed to " 64-bit x86 processor"	
07	Number of core per Processor	12 or more with each core supporting Multi Thread	The vendor may quote higher specifications.	
08	Chipset compatible with CPU	Yes		
09	Motherboard (OEM compatible with CPU)	OEM		
10	Memory ( DDR4 RAM min.) (GB)	128 GB DDR4-2400 MHz or better	No change, the vendor may quote higher specifications.	
11	DDR4 RAM upgradeable upto (Minimum) (GB)	0.5 GB	Yes changed to DDR4 RAM upgradeable up-to (Minimum) (TB) 1 TB	
12	Hard disk drive Capacity (GB)	3 x 1200GB SAS-HS		
13	Hard disk drive RPM with SAS (hot plug or better ) (RPM)	10000 or better		
14	RAID Controller Caches (MB)	1000		
15	RAID Controller	RAID 0, 1 & 5		
16	RAID Controller Ports	8		
17	Video Controller (support VGA or above resolution)	Yes with minimum 4GB GDDR5 Dedicated buffer memory having memory bandwidth of at least 80GBps.	The vendor may quote higher specifications.	
18	Keyboard	Yes required		
19	Mouse	Yes required		
20	Monitor	Yes required		
21	Bays (min. 2 internal or more hot plug)	5	The vendor may quote higher specifications.	
22	USB Ports (version 2.0/3.0)	4		



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23	Certifications, Compliance & support by Windows, Red Hat or Novell	Latest version of Windows, Linux & Ubuntu OS (32Bit & 64Bit both) and all Industry Standard Virtualization Software. Root of Trust security enabled.		
24	DVD ROM (or better)	Yes (Internal/External)	Yes changed to External USB	
25	Networking: dual LAN (10/100/1000) network card with asset feature tracking & security management, remote wake up	Yes	Server should configure with Dual 1G Ports & supported for 10G Ports	
26	Power Management	Remote Management of Server over LAN & WAN with SSL encryption. Server health logging. Should have virtual Media support with all required licenses. Remoter power On/ Shutdown of server.		
27	Redundant Power Supply	Yes		
28	Server scalability to be achieved within the box & without adding nodes	Yes	Adding more resources to Server.	
29	BIS Registration no. under CRS of Deity	Yes		
30	Declare max. power consumption of the system	Yes		
31	Availability of documentary evidence in support of model quoted in commercial production & due evaluation completed	Yes	Yes documentary evidence in support of model quoted in commercial is required.	
32	Details of benchmark indices with software & diagnostic software used to test server.	Processor SPEC CPU2006 benchmarked with maximum 192 GB RAM to achieve SPEC rating of at least 950 or more (60% of SPECint_rate_base2006 plus 40% of SPECfp_rate_base2006 scores). Benchmark rating of quoted processor on should be published on SPEC.ORG on date of bidding.	Yes changed to Current SPEC CPU2017 Ratings.	
33	Server main supply	200V to 230V		
34	CE or UL certified or Ertl/Etdc certified for safety (IEC-	Yes		



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	60950-1)			
35	RoHS Compliance	Yes		
36	Warranty (years)	5 Years OEM on-site comprehensive.	It should be 5 Years 24 x 7 support with 4 Hours Response Time	
37	New Point ADDED	<b>(HDD Retention)</b> <b>Faulty HDD will not be returned to Vendor</b>		

**“Minimum Specifications – O”**

**Desktop Computers (Ubuntu Operating System)**

**Brand: Dell / HP / IBM or equivalent brand of repute**

S.No.	Description	Specification	Specification Changed	Technical Compliance YES/NO
01	Category	Business (for work) segment (not Home Segment) (full commercial)		
02	Form Factor	Small Form Factor with Volume less than 8 Liters		
03	Make, Model/ Part No.	(to be given by the bidder- At the time of Technical Evaluation)		
04	Processor Family	<b>Intel Core i5 Processor</b> with Eighth Generation or better.	Yes changed to 10th Gen or equivalent or better generation	
05	Base Frequency	3.6 Ghz or Higher	Yes 2.9 Ghz or Higher or better.	
06	Processor Cache	As per Processor		
07	Motherboard & Chipset	Intel Original Mother Board or better M/B based on associated Chipset with Minimum two free PCI/ PCI-x/PCI-Express slots	The vendor may quote better specifications i.e. two free PCI/ PCI-x/PCI-Express slots/ PCIe x1 + 1 Half Height PCIe	
08	TDP (Thermal Design)	Not More than 65 W		
09	System Memory (RAM)	4 GB , 2400Mhz DDR-IV Memory or Higher	8 GB , 2400Mhz DDR-IV Memory or Higher	
10	Expandable Memory	Upto 32 GB, at least 2 slots		
11	Hard Disk	Integrated Dual Port SATA III controller, HDD 1 TB, 7200 RPM or more		
12	Preloaded Operating System	Ubuntu/ Free DOS/ Without OS (Ubuntu with all required drivers & plugins)	Yes changed to Ubuntu 18.04 Operating System (pre-loaded).	
13	Operating System certificate	Ubuntu-Linux16.04 LTS or higher	Yes changed to Ubuntu-Linux 18.04 LTS and declaration/ certificate is to be obtained from OEM.	



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## PRINCIPAL SEAT – JABALPUR

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14	System Architecture	64- Bit		
15	Screen Size & Resolution	18.5 inch TFT LED Monitor (HD Resolution) or higher with TCO6 certification	The vendor may quote higher screen size.	
16	Screen Type	HD Wide Screen Backlit LED Anti-Glare Display		
17	Graphic Processor	Intel HD or equivalent Integrated HD Graphic & sound Controller	The vendor may quote equivalent or better specifications.	
18	Pointer Device & Keyboard	OEM USB Optical scrolling Mouse, OEM USB Standard 104 Keys Keyboard		
19	Speakers	Stereo Sound Speakers (Built-In with CPU Cabinet or Monitor).	Yes changed to Stereo sound bar /stereo speaker (Built-In with CPU Cabinet <b>OR</b> Monitor).	
20	Ethernet	Integrated Gigabit Ethernet Controller with Ipv6 Complaint		
21	Wireless	IEEE 802.11 AC	The vendor may quote higher specification.	
22	USB Port	4 x USB 2.0, 2 x USB 3.0	Yes change to 4 x USB 2.0, 2 x USB 3.0/3.1 / 3.2.	
23	Other Ports	Mic In, Speaker Out, Rj45, VGA/Display Port Out/HDMI or better		
24	Power Supply/ Adaptor	Optimum Wattage SMPS to support full use of system with all USB ports utilized		
25	Energy Certification	Energy Star (EPA) ver 5.0 or later/ BEE India Star ver 1 or latest / updated		
26	EPEAT Certified	Yes Required		
27	Power Management	ACPI Complaint		
28	USB Ports Security	USB Port Disable (through BIOS)		
29	Security Lock	optional		
30	Hardware Drivers	Vendor to provide for Ubuntu –Linux 16.04 LTS	Yes changed to 18.04 LTS" or better. (The vendor have to ensure that the provided hardware should be fully supported /compatible with OS)	
31	OEM Product	Original Equipment Manufacturer (OEM) Manufacture or its authorized distributors/ dealers with OEM		
32	Warranty	5 Years on site		



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		Comprehensive Warranty support with Level 1 Support from bidder and Level2 support from OEM		
33	Service Centre	Must have Company Authorized Service Centre in Capital City/ High Court Place		

**“Minimum Specifications – P”**

**Computer System All-in-One (non-touch) having Ubuntu Operating System**

S.No.	Description	Specification	Specification Changed	Technical Compliance YES/NO
01	Category	Business (for work) segment (not Home Segment)(full commercial)		
02	Form Factor	All in one		
03	Make, Mode/ Part No.	(to be given by the bidder- At the time of Technical Evaluation)		
04	Processor Family	<b>Intel Core i5 Processor with Eighth Generation</b> or better	Yes changed to 10th Generation Intel Core i5-10400T, 12 MB Cache, 6 Cores, 12 Threads, 2.0 GHz to 3.6 GHz or equivalent or better.	
05	Base Frequency	Intel Core i5-8100 (4 Core/ 6MB/4T/3.6 Ghz or better	Yes changed to 10th Generation Intel Core i5-10400T, 12 MB Cache, 6 Cores, 12 Threads, 2.0 GHz to 3.6 GHz or equivalent or better.	
06	Processor Cache	As per Processor		
07	Motherboard & Chipset	Intel Original Mother Board Q 370 or above	Yes changed to Intel B460 Chipset or equivalent or higher	
08	TDP (Thermal Design)	Not More than 65 W		
09	System Memory (RAM)	4 GB, 2400 Mhz DDR-IV Memory or Higher	8 GB, 2400 Mhz DDR-IV Memory or Higher	
10	Expandable Memory	Upto 32 GB, at least 2 slots		
11	Hard Disk	Integrated Dual Port SATA III controller, HDD 1 TB, 7200		





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		RPM or more / above		
12	Preloaded Operating System	Ubuntu / Free DOS / Without OS (Ubuntu with all required drivers & plug-in)	Yes changed to Ubuntu 18.04 Operating System (pre-loaded).	
13	Operating System certificate	Ubuntu-Linux16.04 LTS or above	Yes changed to Ubuntu-Linux 18.04 LTS and declaration/ certificate is to be obtained from OEM.	
14	System Architecture	64- Bit		
15	Screen Size & Resolution	Non touch Screen with 21.5" (Full HD Resolution) or higher with OEM certification		
16	Screen Type	HD Wide Screen Backlit LED Anti-Glare Display	Full HD	
17	Graphic Processor	Intel HD or equivalent Integrated HD Graphic & sound Controller.		
18	Monitor Mounting Support	Vesa Screws Cover for Wall Mount (OPTIONAL)		
19	Web Camera	2.0 Megapixel HD Built In <b>Webcam or Higher</b> side		
20	Pointer Device & Keyboard	OEM USB Optical scrolling Mouse, OEM USB Standard 104 Keys Keyboard		
21	Microphone	Digital Microphone		
22	Speakers	Stereo Sound Speakers (Built-In)		
23	Ethernet	Integrated Gigabit Ethernet Controller with Ipv6 Complaint		
24	Wireless	IEEE 802.11 ac		
25	USB Port	4 x USB 2.0, 2 x USSB 3.0	Yes changed to 4 x USB 2.0, 2 x USB 3.0/3.1 / 3.2 or better	
26	Other Ports	Mic In, Speaker Out, Rj45, VGA/HDMI/Display Port Out		
27	Power Supply/ Adaptor	External Power A.C. Adaptor		
28	Energy Certification	Energy Star (EPA) version 5.0 or later/ BEE India Star version 1 or later		
29	EPEAT Certified	Yes Required		
30	Power Management	ACPI Complaint		
31	USB Ports Security	USB Port Disable (through BIOS)		



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32	Security Lock	optional		
33	Hardware Drivers	Vendor to provide for Ubuntu – Linux 16.04 LTS	Yes changed to 18.04 LTS" or better. (The vendor have to ensure that the provided hardware should be fully supported /compatible with OS)	
34	OEM Product	Original Equipment Manufacturer (OEM) Manufacture or its authorized distributors/ dealers with OEM		
35	Warranty	5 Years on site Comprehensive Warranty support with Level 1 Support from bidder and Level2 support from OEM		
36	Service Centre	Must have Company Authorized Service Centre in Capital City / High Court Place		

**“Minimum Specifications – Q”**

**“Minimum required Specifications-Laptop Computers of reputed Make : Dell/HP/ Lenovo or equivalent brand of repute”**

S.No.	Minimum Specifications	Specification Changed	Technical Compliance YES/NO
01	<b>Processor</b> Intel Core i5 Processor with minimum 8 <sup>th</sup> generation or higher, Integrated Graphics, memory Card Reader (Quad core 6MB Cache, minimum 1.6 GHz up to 3.4 GHZ ) or above.	Yes changed to Generation10th Intel Core i5- 10210U Processor (6MB Cache, up to 4.2 GHz) or better or equivalent.	
02	<b>Operating System</b> Windows 10 Professional (64 bit) Operating System & Ubuntu Linux OS ( <b>Dual Bootable</b> )		
03	<b>Display</b> The screen to be non-touch with 14” Diagonal FHD (1920x1080) Antiglare Display and scratch resistant with Metallic Hinges.		
04	<b>Keyboard</b> Yes, Spill resistant.		
05	<b>Webcam</b> 720 P HD Webcam Dual Microphone in place of 2.0 MP-HD with Dual Microphone <b>or better</b>		
06	<b>Random Access Memory</b> 8 GB DDR4 RAM 1600 MHz or better expandable up to 16 GB RAM.		
07	<b>Battery</b> Up to 6 Hrs. (maximum at optimum performance)		
08	<b>Weight</b> Preferable less than 2.5 kg	Yes changed the vendor may quote less weight Laptop Computer but not more than 2.5 kg.	
09	<b>WLAN</b> 802.11 a/ac and integrated module with Bluetooth 4.0	Yes changed to 802.11 a/ac and integrated module with Bluetooth 5.0 or better	



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10	<b>I/O (Input / Output) Ports</b> Minimum three USB ports (2 x USB 3.0 & x 2.0) ,Audio/Mic Combo ,1 HDMI, 1 VGA,	Yes changed to I/O (Input / Output) Ports Minimum three USB ports (2 x USB 3.0 & 1x 2.0) ,Audio/Mic Combo ,1 HDMI or better	
11	<b>Storage</b> 1 TB HDD (Hard Disk Drive)		
12	<b>LAN Port</b> Gigabit LAN port 10/100/1000.		
13	<b>DVD Drive</b> Reads and Writes to DVD/CD	<b>DVD / CD Writer not required.</b>	
14	<b>Ethernet</b> Native RJ45 using Ethernet Connector		
15	<b>Audio</b> Integrated Multimedia capabilities with Speaker (preferable dual speaker).		
16	Antivirus Antivirus of reputed brand (Quick Heal, Norton, McAfee & Bit Defender etc.) with Five year validity and support.	Yes, bidder scope.	
17	Energy Star certification 5.0 or above / BEE versions 1.0 or above.	No change, but the vendor may quote higher technology certifications	
18.	<b>NEW POINT ADDED</b> Warranty	The Laptop Computers to be supplied with 5 year comprehensive warranty and on battery the minimum warranty of 2 years.	

**Note:- All of the above specifications should be read as equivalent or better/higher side.**

1. The specifications mentioned in tender document are minimum and the vendor may quote equivalent or higher specifications for the computer hardware articles in the tender document.
2. All the pages of the bids and Annexure's are to be sealed and signed by the authorized officers of the company / vendor.
3. The bidder at the time of filling of technical compliance sheet should fill the sheet that is mentioned above in the clarification.
4. The bidder has to quote only 01 product of single make / brand at a time and not multiple brands for same item.
5. The Original equipment manufacturer (OEM) may authorize more than one partner for participation in the bid.
6. Back-to-Back support letter is to be submitted by OEM regarding support of the quoted products.
7. The Registrar General, High Court of Madhya Pradesh has full rights to accept or reject any bid, without assigning any reason.
8. The Registrar General, High Court of Madhya Pradesh have right to alter the scope of work as per the requirement.



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9. All Prospective bidders are requested to submit the bid with all relevant documents and product brochures / catalogues in sequenced manner.
10. If any variations in specifications then please mention the same in compliance sheet.
11. The Laptop Computers to be supplied with 5 year comprehensive warranty and on battery the minimum warranty of 2 years.
12. The above clarifications / addendum are for all the prospective bidders' for tender reference and necessary action.
13. ***The submission of hardcopy of the tender document is made optional, till the period of COVID-19, but EMD hardcopy submission is compulsory.***
14. On introduction of new levy / taxes / duties the rate / price of items shall be changed in same proportionate.
15. Tender condition no. **2.5 EARNEST MONEY DEPOSIT (EMD) 2.5.1** **changed to :-** The proposal should be submitted along with **online** application fee of Rs.10,000/- (Rs. Ten Thousand only) and Earnest Money Deposit (EMD) of Rs.20,00,000/- (Rupees Twenty Lakh only) **OR** Rs.3,00,000/- (Rupees Three Lakh Only) (in case where the bidder is quoting only **specification-i and J** of the tender document) in the form of demand draft / pay order / FDR / unconditional Bank Guarantee drawn in favour of "**Registrar General, High Court of Madhya Pradesh, Jabalpur**" of any Nationalized / Scheduled bank payable at **Jabalpur** through tender portal only i.e. [www.mptenders.gov.in](http://www.mptenders.gov.in). The Bid submitted without EMD and/or the application fee shall be summarily rejected.
16. **The firms registered under NSIC and MSME are exempted for submission of "tender fees" only. But they have to enclose duly verified valid documents in the support of the bid and to submit the EMD as per the tender document.**
17. **Before submission of online tender fees and EMD please contact 0120-4001 002; 0120-4200 462; 0120-4001 005 & 0120-6277 787.**



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- 18. *The decision of the High Court in selection / finalization of items / products shall be final and no objection in this regard shall be entertained.***
- 19. *All future clarification / corrigendum shall be made available in the official website of the High Court.***

**Sd/-**

**REGISTRAR GENERAL**