

HIGH COURT OF MADHYA PRADESH: JABALPUR

// ADDENDUM / CLARIFICATION/ REPLY //

No. Reg(IT)(SA)/2019/94 Jabalpur, Dated:25th January, 2019.

Subject:- Clarification / addendum/reply of the Pre-Bid meeting dated: 07th January, 2019 of the tender regarding Supply , Installation, Commissioning, Maintenance and Rate Contract of Computer Hardware items of the High Court and Subordinate Courts in the State of Madhya Pradesh with reference to the tender no. Reg(IT)(SA)/2018/1873, Dated:21.12.2018.

Ref: - Pre-Bid Meeting Dated: 07th January, 2019 at 11:30 AM.

Reply / clarification to the pre-bid queries

S.No.	Page No. & Clause No.	Description	Query of the bidder/ vendor	Reply / clarification to the query
1	Clause 2.15.2	Similar works means: Supply, maintenance and System Integration of Servers, Computers, printers and UPS.	Are you asking for combine order of servers, computers, printers and UPS or in a order any one product should be there of given products (Servers or computers or Printers or UPS)	Similar work means supply, maintenance system integration of servers, computers, printers, UPS system or other IT equipment's as individually shall be acceptable for e.g. if a vendor has supplied servers of 05 crore value than his work order shall be acceptable. However, preference may be given to the vendors who have supplied hardware in mix of servers, computers, printers, UPS OR other similar IT equipment's. The decision of the High Court in this regard shall be final and acceptable to all.
2	Page No.11: Eligibility/ Pre	Three similar completed work costing not less	As per the clause kindly confirm 40% of	No change. For 03 similar completed works

	qualification Criteria, point no. 2.15.2	<p>than the amount equal to 40% of the estimated cost.</p> <p>OR</p> <p>(b) Two similar completed work costing not less than the amount equal to 50% of the estimated cost.</p> <p>OR</p> <p>(c) One similar completed work costing not less than the amount equal to 80% of the estimated cost.</p>	<p>value will be of cumulative total of three similar work, 50% of value will be cumulative total of two similar work. We would request to change it to 25%, 50%, and 75% respectively instead of 40%, 50%, 80%.</p>	<p>total amount should not be less than 40% of the estimated cost of the tender OR cumulative of 02 work order should not be less 50% of estimated cost of the tender or one similar completed work should not be less than 80% of estimated cost of the tender .</p> <p>Please refer tender document</p>
3	EMD 2.5.1	<p>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/- (Rs. Twenty Lakh Only) in the form of a 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 . The Bid submitted without EMD and/or the application fee shall be summarily rejected</p>		<ol style="list-style-type: none"> 1. The vendor who are quoting all the items should submit the EMD of Rs. 20,00,000/- (Rupees Twenty Lakh Only). 2. The vendor who are quoting only for multifunctional device category / photocopiers (Specification I & J) should submit EMD of Rs. 5,00,000/- (Rupees Five Lakh Only). 3. The vendor who are quoting only for UPS system (specification F, G & H) should submit the EMD of Rs. 5,00,000/- (Rupees Five Lakh Only).

The revised technical specifications of the tender document after pre-bid meeting and getting feedback from the vendors is enumerated as per details given below: -

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

S. No.	Description	Specification	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, Mode/ Part No.	(to be given by the bidder- At the time of Technical Evaluation)	
04	Processor Family	Intel Core i3 Processor with Eighth Generation or better processor	
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	
08	TDP (Thermal Design)	Not More than 65 W	
09	System Memory (RAM)	4 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)	
13	Operating System certificate	Ubuntu-Linux16.04 LTS.	
14	System Architecture	64- Bit	
15	Screen Size & Resolution	18.5 inch TFT LED Monitor (HD Resolution) or higher with TCO6 certification	
16	Screen Type	HD Wide Screen Backlit LED Anti-Glare Display	
17	Graphic Processor	Intel HD or equivalent Integrated HD Graphic & sound Controller	
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.	
20	Ethernet	Integrated Gigabit Ethernet Controller with IPv6 Complaint	
21	Wireless	IEEE 802.11 AC	
22	USB Port	4 x USB 2.0, 2 x USB 3.0	
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	
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	
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	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, Mode/ Part No.	(to be given by the bidder- At the time of Technical Evaluation)	
04	Processor Family	Intel Core i3 Processor with Eighth 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-Express slots	
08	TDP (Thermal Design)	Not More than 65W	
09	System Memory (RAM)	4 GB , 2400Mhz DDR-IV Memory or Higher	
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	
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.	
14	System Architecture	64- Bit	
15	Screen Size & Resolution	18.5 inch TFT LED Monitor (HD Resolution) or higher with TCO6 certification	
16	Screen Type	HD Wide Screen Backlit LED Anti-	

		Glare Display	
17	Graphic Processor	Intel HD or equivalent Integrated HD Graphic & sound Controller	
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).	
20	Ethernet	Integrated Gigabit Ethernet Controller with IPv6 Complaint	
21	Wireless	IEEE 802.11 AC	
22	USB Port	4 x USB 2.0, 2 x USB 3.0	
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 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	
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	Technical compliance Yes/No
01	Processor	Intel ® Core i7-8700 Process (6 core / 12MB / 12T/ 4.6Ghz or above	
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	
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	
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	
12	OS	Windows 10.1 Professional 64 bit preloaded with recovery DVD media / software or above	
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.	
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	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	Intel Core i3 Processor with Eighth Generation or better	
05	Base Frequency	Intel Core i3-8100 (4 Core / 6MB/4T/3.6 Ghz or above	
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	

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 / above	
12	Preloaded Operating System	Ubuntu / Free DOS / Without OS (Ubuntu with all required drivers & plug-in)	
13	Operating System certificate	Ubuntu-Linux16.04 LTS or above	
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	
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 Webcam or Higher 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 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	
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	
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“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	
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	Minimum 40 ppm	
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	Technically Compliant (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 above	
06	Paper Thickness and Weight	40-210 g/m ² paper	
07	Feeder	Minimum 100 sheets of 60 g/m ²	
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: 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 <u>or equivalent</u>	
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	Technically Compliant (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 ²	
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, skew: 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 <i>or equivalent</i>	
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 – 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		Technically Compliant (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 Maintenance Free)	Backup Time	Minimum 30 minutes	
		No. of Batteries	Two number of minimum 7 AH batteries (12 V, 7 ahX2) of reputed make like Exide / quanta / rocket / Panasonic or equivalent brand of reputed	
		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		Technically Compliant (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%	
		Output Frequency	50 Hz or 60Hz	
		Output Wave form	Simulated/stepped sine wave	
		System Voltage (VDC)	24	
04	BATTERY (Sealed Lead	Backup Time	Minimum One Hour	

	Acid Maintenance Free)	No. of Batteries	Two numbers of minimum 9 ah batteries (12 V, 9ahX2) of reputed make Exide / rocket / Panasonic or equivalent brand of repute.	
		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	Technically Compliant (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	8060 VAH or above	
05	Switchover/ Transfer Time	<4 ms in synch mode, <10 ms in un synch mode	
06	Input Power	230V AC +/- 20%, Single phase	
07	Input Frequency	0.8 or higher	
08	Input Power factor	0.8 or higher	
09	Input Power factor	0.75 or higher	
10	Output Power	Single phase 230V AC, +/- 1%,	

11	Output Frequency	50 Hz, +/- 2%	
12	Overall efficiency	>90%	
13	Total Harmonic Distortion	<3% THD	
14	Battery recharge time	< 8 hours for 90% of total AH capacity	
15	Battery back-up time at full load	Minimum one Hour Battery Backup at full-load.	
16	Batteries	Valve Regulated Lead Acid (VRLA) Sealed Maintenance free batteries with enclosure of reputed make like Exide/ Panasonic/ Amron Quanta.	
17	Voltage regulator	Built-in	
18	Bypass switch	Dynamic bypass switch, built-in	
19	RFI & EMI Filter	Built-in	
20	Inverter Overload	125% for 10 minutes, 150% for 10 secs.	
21	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.	
22	Event management function	Capable to record historical data, events and send event details through email, SNMP compatible	
23	Network Interface port	1 no. 10/ 100 Mbps port for UPS monitoring on Network	
24	Display meters on UPS	Voltmeter, Ammeter, Frequency meter, Battery Voltage & Current, Load Utilization Percentage	
25	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.	
26	Cabinet and enclosure	Fire resistant, Metallic enclosure, Corrosion resistant or equivalent	
27	Battery Cabinet	Battery cabinet for safety of batteries.	
28	OEM Product	Original Equipment Manufacturer (OEM) Manufacture or its authorized distributors/ dealers with OEM	
29	Warranty	5 Years on site Comprehensive Warranty	

		support with Level 1 Support from bidder and Level2 support from OEM	
30	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	Technically Compliant (Yes/No)
MINIMUM SPECIFICATIONS			
1	Copying Type	ADF and platen	
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	
9	Std Memory of machine	Minimum 128 MB	
10	First Copy Out Time	Less than 7.7 sec	
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	
PRINT (auto-duplex unit)			
15	Std Printer	GDI Printing /PCL5e/ PCL6/ XPS or better	
16	Print Speed	Minimum 20 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	
SCANNER			
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	
23	Interface	High Speed USB 2.0 /3.0	
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	Technically Compliant (Yes/No)
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MINIMUM SPECIFICATIONS			
01	Copying Type	Automatic document feeder (ADF)	
02	Platen Cover	Yes	
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	
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	
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	
P R I N T (Auto duplex unit)			
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	Paper type	A3, A4, Legal etc.	
20	Operating Systems	Should support Windows , Linux Operating System, SUSE Operating Systems	
SCANNER			
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	
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	

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

S. No.	Specifications	Description	Technically Compliant (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	Technically Compliant (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	
03	Paper Capacity	250 sheets on standard input tray or above	
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	Technically Compliant (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 Centre in Capital City / High Court Place	

“Minimum Specifications – N”
Servers of Reputed Make and Brand like HP/Dell etc.

S.No.	Parameter	Detailed Specifications	Technical Compliance Yes / No (Remarks if any)
1	Form Factor	Rack Mount (Maximum 2U)	
2	Processor Make	X86 Architecture	
3	Max. Number of sockets available on chipset	2	
4	Max. Number of sockets populated with processor	2	
5	No. of Processor	2	
6	Processor Configuration	64-bit x86 processor fully	

		binary compatible to 32-bit applications	
7	Number of core per Processor	12 or more with each core supporting Multi Thread	
8	Chipset compatible with CPU	Yes	
9	Motherboard (OEM compatible with CPU)	OEM	
10	PCI Slots (Express Gen 3.0 min.)	One Free	
11	Memory (DDR4 RAM min.) (GB)	128 GB DDR4-2400 MHz or better	
12	DDR4 RAM upgradeable upto (Minimum) (GB)	0.5 GB	
13	Hard disk drive Capacity (GB)	3 x 1200GB SAS-HS	
14	Hard disk drive RPM with SAS (hot plug or better) (RPM)	10000 or better	
15	RAID Controller Caches (MB)	1000	
16	RAID Controller	RAID 0, 1 & 5	
17	RAID Controller Ports	8	
18	Video Controller (support VGA or above resolution)	Yes with minimum 4GB GDDR5 Dedicated buffer memory having memory bandwidth of at least 80GBps.	
19	Keyboard	Yes required	
20	Mouse	Yes required	
21	Monitor	Yes required	
22	Bays (min. 2 internal or more hot plug)	5	
23	USB Ports (version 2.0/3.0)	4	
24	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.	
25	DVD ROM (or better)	Yes (Internal/External)	
26	Networking: dual LAN (10/100/1000) network card with asset feature tracking & security management, remote wake up	Yes	
27	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.	
28	Redundant Power Supply	Yes	
29	Server scalability to be achieved within the box & without adding nodes	Yes	
30	BIS Registration no. under CRS of Deity	Yes	
31	Declare max. power consumption of the system	Yes	
32	Availability of documentary evidence in support of model quoted in commercial production & due evaluation completed	Yes	
33	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.	
34	Server main supply	200V to 230V	
35	CE or UL certified or Ertl/Etdc certified for safety (IEC- 60950-1)	Yes	
36	RoHS Compliance	Yes	
37	Warranty (years)	5 Years OEM on-site comprehensive.	

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

S.No.	Description	Specification	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	Intel Core i5 Processor with Eighth Generation or better.	
05	Base Frequency	3.6 Ghz or Higher	
06	Processor	As per Processor	

	Cache		
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	
08	TDP (Thermal Design)	Not More than 65 W	
09	System Memory (RAM)	4 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)	
13	Operating System certificate	Ubuntu-Linux16.04 LTS or higher	
14	System Architecture	64- Bit	
15	Screen Size & Resolution	18.5 inch TFT LED Monitor (HD Resolution) or higher with TCO6 certification	
16	Screen Type	HD Wide Screen Backlit LED Anti-Glare Display	
17	Graphic Processor	Intel HD or equivalent Integrated HD Graphic & sound Controller	
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.	
20	Ethernet	Integrated Gigabit Ethernet Controller with IPv6 Complaint	
21	Wireless	IEEE 802.11 AC	
22	USB Port	4 x USB 2.0, 2 x USB 3.0	
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	
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 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	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	Intel Core i5 Processor with Eighth Generation or better	
05	Base Frequency	Intel Core i5-8100 (4 Core/ 6MB/4T/3.6 Ghz or better	
06	Processor Cache	As per Processor	
07	Motherboard & Chipset	Intel Original Mother Board Q 370 or above	
08	TDP (Thermal Design)	Not More than 65 W	
09	System Memory (RAM)	4 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 RPM or more / above	
12	Preloaded Operating System	Ubuntu / Free DOS / Without OS (Ubuntu with all required drivers & plug-in)	
13	Operating System certificate	Ubuntu-Linux16.04 LTS or above	
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	
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 Webcam or Higher 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	
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	
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	Compliance Yes/ No	Remarks
1	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.		
2	Operating System Windows 10 Professional (64 bit) Operating System & Ubuntu Linux OS (Dual Bootable)		
3	Display The screen to be non-touch with 14" Diagonal FHD (1920x1080) Antiglare Display and scratch resistant with Metallic Hinges.		
4	Keyboard Yes, Spill resistant.		
5	Webcam 720 P HD Webcam Dual Microphone in place of 2.0 MP-HD with Dual Microphone		
6	Random Access Memory 8 GB DDR4 RAM 1600 MHz expandable up to 16 GB RAM.		
7	Battery Up to 6 Hrs. (maximum at optimum)		

	performance)		
8	Weight Preferable less than 2.5 kg		
9	WLAN 802.11 a/ac and integrated module with Bluetooth 4.0		
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,		
11	Storage 1 TB HDD (Hard Disk Drive)		
12	LAN Port Gigabit LAN port 10/100/1000.		
13	DVD Drive Reads and Writes to DVD/CD		
14	Ethernet Native RJ45 using Ethernet Connector		
15	Audio Integrated Multimedia capabilities with Speaker (<i>preferable dual speaker</i>).		
16	Antivirus Antivirus of reputed brand (Quick Heal, Norton, McAfee & Bit Defender etc.) with Five year validity and support.		
17	Energy Star certification 5.0 or above / BEE versions 1.0 or above.		

Note:-

1. The total price of commercial bid inclusive of all taxes & expenses for 5 (Five) years on-site maintenance & support shall be taken as the basis for evaluation of commercial bids. In case of any discrepancy in the tax factor, the basic product price shall be taken in to consideration for finalization of bids.
2. The number of items may increase depending upon the final requirement of the High Court and District Courts.
3. The firms / vendors registered under **NSIC are exempted** for submission of tender fees and EMD, but they have to submit valid documents in this regard as per tender and in case any document is found to be incorrect or misleading, then the bid shall be out rightly rejected without any consideration and assigning any reason thereof.
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 can 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 their quoted products and the OEM is also required to sign the respective documents as per the requirement of the High Court.
7. The UPS system is to be supplied with 05 years' onsite warranty and support, but the UPS batteries are to be with **02 years support and warranty**. The vendor has to assure the availability of batteries of UPS Systems, after the expiry period of batteries for their quoted UPS.
8. The Registrar General, High Court of Madhya Pradesh has full right to accept or reject any bid, without assigning any reason.
9. The Registrar General, High Court of Madhya Pradesh has right to alter the scope of work as per the requirement.
10. All Prospective bidders are requested to submit the bid with all relevant documents and product brochures / catalogues.
11. On introduction of new levy / taxes / duties the rate / price of items shall change in same proportionate.
12. The word sale tax / VAT wherever mentioned bid document to be treated as GST.
13. **The date for submission of this tender is hereby extended till 11th February, 2019 before 3:00 PM and the technical bids of the tender shall be opened on same day at 3:30 PM.**
14. For all future correspondence / addendum / corrigendum, please refer to the website of the High Court www.mphc.gov.in and Madhya Pradesh e-Procurement portal www.mptenders.gov.in
15. All technical specifications mentioned in the tender document are minimum and bidder can quote the bid on higher site specifications.
16. Earnest money deposit is to be submitted by the vendors as per the portal/bid document/clarification.

SD/-

PRINCIPAL REGISTRAR (VIG.)