



# **HIGH COURT OF MADHYA PRADESH**

**PRINCIPAL SEAT – JABALPUR**

**No. Reg(IT)(SA)/2021/129 Jabalpur, Dated:-03-02-2021**

## **// CLARIFICATION //**

**Sub:-** The matter regarding to publish the clarification / reply of Pre-Bid meeting dated: 20<sup>th</sup> January, 2021 regarding tender for the supply, installation, commissioning, maintenance and rate contract of the Computer Hardware Articles / IT Equipments at the High Court of Madhya Pradesh and Subordinate Courts in the State of Madhya Pradesh with reference to tender no. Reg(IT)(SA)/2021/40, Dated:08.01.2021.

**Ref:-** Pre-Bid Meeting dated: 20<sup>th</sup> January, 2021 through video conferencing.

### **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>
<b>1</b>	Brightness	3200 Lumens or more	Minimum should above 3500 lumens as per industry 3200 lumens are obsolete from market	No change
<b>2</b>	Contrast Ratio (Minimum)	12000:1	Minimum should above 22000: 1 cr for better clarity	No change
<b>3</b>	Zoom	Manual Zoom (x1.2x) %	Need to be 1.1x zoom - every OEM has different zoom in percentage according to their TR & chipset	Yes changed to 1.1X zoom or better
<b>4</b>	Throw Ratio	1.37:1 to 1.80:1	1.96 ~ 2.15 according to zoom % minimum should have	Changed to "1.94 ~ 2.16 (51"@2m)" <b>OR</b> 1.37:1 to 1.80:1 or better
<b>5</b>	Keystone Correction	Automatic	Need to have manual also according to 70% OEM have manually	No change
<b>6</b>	Ports	HDMI with MHL support, HDMI Port, Audio In, Audio Out, Video In, Analog RGB In, Analog RGB Out and Storage Media Port (USB - Type A)	HDMI with MHL is used in portable projectors for gaming & other activity and secondly MHL supported mobiles are very reared in markets all mobile do not support MHL so kindly make it optional	Yes changed to HDMI Port, Audio In, Audio Out, Video In, Analog RGB In, Analog RGB Out and Storage Media Port (USB - Type A)
<b>7</b>	Connectivity	LAN, WiFi (inbuilt / external)	LAN is used in projector for controlling & display out & in industry very limited OEM are providing the same and other majorly OEM giving rs232 for controls, so we request to make it optional and as HDMI port is there so not required LAN	Yes changed to LAN ( <b>optional</b> ) ,WiFi (inbuilt / external (mandatory)



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8	Page No. 39	Resolution (Pixels) HD (1280 x 720) or better	<b>Point No 3(Image Resolution) :</b> Kindly amend it to Full HD Resolution i.e. <b>1920x1080</b> as all the latest Visualizes comes with Full HD resolution whereas in the current specifications, the resolution mentioned is HD only.	Yes changed to Full HD Resolution i.e. <b>1920x1080</b>
9			<b>Image Pick Up Device :</b> Kindly amend it to 3MP as 3 inch is an incorrect term for pick up device.	Yes changed to 3MP or better
10			<b>Image Rotation Facility :</b> We request you to kindly amend 270 degree rotation to 180 degree as image flip in all the document cameras means 180 degree. 270 degree rotation is not used generally in normal course of use of Document Camera.	Yes changed to (tilt, rotate) 90 <sup>o</sup> , 180 <sup>o</sup> or better
11			<b>Network Connectivity:</b> Network connectivity is only needed when you want to do streaming. Currently, you would like to connect with either Projector via HDMI or with Soft VC via USB. So, network connectivity is not needed. So, we request you to keep this feature as an optional feature.	Yes Network connectivity is made <b>optional</b> .
12			<b>Light Box :</b> Light box functionality is for showing negatives and transparency which is not required in court room application. Also, the light box would take more space and looks bulky. All the court rooms tenders are going with Portable Document Cameras as it takes the least space and easy to operate. So, we request you to keep this feature as an optional feature.	Yes Light Box is <b>optional</b> .
13			<b>Certification:</b> We would request you to kindly incorporate Certifications as all renowned International Manufacturers have <b>CE/UL, FCC, RoHS and ISO 9001/ISO 14000 Certifications</b> . These certifications would help your prestigious organization in eliminating low quality Chinese and Unknown Brands to be quoted in the tender. Recently in	The product to be CE/UL, ROHS <b>OR</b> the product to be BIS certified.



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			all the Government tenders, it is mandatory to submit the following certificates from the OEM - <b>CE/UL, FCC, RoHS and ISO 9001/ISO 14000 Certifications</b> , in order to get good quality and genuine products.	
14	<b>Specification-E, All in One Computer System</b>			
15	All-In-One Computer System	Base Frequency 10th Generation Intel Core i5-10400T, 12 MB Cache, 6 Cores, 12 Threads, 2.0 GHz to 3.6 GHz or equivalent or better.	2.0 GHz or equivalent or better	No change
16	All-In-One Computer System	System Memory (RAM) 8 GB, 2400 Mhz DDR-IV Memory or Higher	8GB DDR4 2666MHz or Higher	No change
17	All-In-One Computer System	Web Camera 2.0 Megapixel HD Built In Webcam or Higher side	1080p webcam or Higher side	No change
18	All-In-One Computer System	Microphone Digital Microphone	Dual array microphone	Yes changed to Dual array microphone/ Digital Microphone.
19	All-In-One Computer System	USB Port 4 x USB 2.0, 2 x USB 3.0/3.1 / 3.2 or better	3 x USB 2.0, 2 x USB 3.1 Gen 1, 1x USB 3.1 Type-C Gen 1	No change
20	All-In-One Computer System	Other Ports, Mic In, Speaker Out, Rj45, VGA/HDMI/Display Port Out	one headphone / microphone combo jack ,RJ-45,HDMI-in, HDMI-out	Yes changed to Other Ports- Mic In, Speaker Out/ Universal Audio Jack, Rj45, VGA/HDMI/Display Port Out
21	All-In-One Computer System	Energy Certification Energy Star (EPA) version 5.0 or later/ BEE India Star version	ENERGY STAR 8.0 or later	No change



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		1 or later		
22	“Specification A” Projectors with Screen for Court Complexes			
23		Zoom, Manual Zoom(x1.2x) %	1.1X	Yes changed to 1.1X zoom or better
24		Throw Ratio, 1.37:1 to 1.80:1	1.94 ~ 2.16 (51"@2m) or better	Changed to "1.94 ~ 2.16 (51"@2m)" <b>OR</b> 1.37:1 to 1.80:1 or better
25		Ports, HDMI with MHL support, HDMI Port, Audio In, Audio Out, Video In, Analog RGB In, Analog RGB Out and Storage Media Port (USB - Type A)	HDMI1.4a (Video, Audio, HDCP) x 1 ( only 1 ) (Input Interface)	Yes changed to HDMI Port, Audio In, Audio Out, Video In, Analog RGB In, Analog RGB Out and Storage Media Port (USB - Type A)
26		Connectivity, LAN, WiFi (inbuilt / external)	NO LAN PORT	Yes changed to LAN ( <b>optional</b> ) ,WiFi (inbuilt / external( mandatory)
27	“Specification A” Projector Screen	Type, MAP (Calendar) / Wall / Stand Mount (Tripod Type)'	Please specify tripod comes with Matte White Fabric with 120” (4:3) ratio only	Yes changed to tripod/ stand mount with Matte White Fabric with 120” (4:3) ratio only
28		Format, 4:3	Wall mount projector screen 120” (4:3) ratio comes with insta lock and slow retraction system with Matte white fabric separately. Please specify which product you want.	Yes changed to Wall mount projector screen 120” (4:3) ratio with insta lock and slow retraction system with Matte white fabric screen along with tripod.
29	“Specification B” External USB Hard Disks for Court Complexes	Memory Storage Capacity, 2 TB USB with external power adaptor	2TB External Portable HDD with USB Cable only.	No change
30	Connectivity	USB 3.0 with backward compatibility for USB 2.0, Gigabit Ethernet (RJ45)	NA. No Ethernet - RJ-45	No change



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<b>31</b>		Operating Systems Compatibility , Compliance with Linux & Windows partition types	Yes, supported with Window	No change
<b>32</b>		Accessories, USB 3.0 cable, AC Power Adaptor	USB Cable only	No change
<b>33</b>		Power Adaptor, External	Not Available	No change
<b>34</b>		Features, Read & Write Storage access through network protocols like samba, cifs etc.	Not Available	No change
<b>35</b>		Warranty, 5 Years	3 years limited warranty	Yes, 3 years limited warranty on hard disk
<b>36</b>	"Specification C" Document Visualizer	Resolution (Pixels), HD (1280 x 720) or better	Amend it to Full HD as all latest Document Visualizers supports Full HD (1920x 1080)	Yes changed to Full HD Resolution i.e. <b>1920x1080</b>
<b>37</b>		Image Pickup Device, 3 inch or better	Amend it to 3 Mega Pixel as 3 inch is an incorrect term for pick up device	Yes changed to 3MP or better
<b>38</b>		Image Rotation Facility (Degree C), (Tilt, rotate) 90°,180°, 270°	Standard image rotation in most of the Document Visualizers is 0 deg, 180 deg, Mirror and Flip.	Yes changed to (tilt, rotate) 90 <sup>o</sup> , 180 <sup>o</sup> <b>OR</b> better
<b>39</b>		Network Connectivity, Yes required	Network connectivity is only available in Ceiling Mount Document Cameras. Also, network connectivity is only needed when you want to do streaming. Currently, you would like to connect with either Projector via HDMI or with Soft VC via USB. So, network connectivity is not needed	Yes, Network connectivity is made <b>optional</b> .
<b>40</b>		Light Box, Yes	Light box functionality is for showing negatives and transparency which is not required in court room application. Also, the light box would take more space and looks bulky. All the court rooms tenders are going with Portable Document Cameras as it takes the least space and easy to operate.	Yes, Light Box is made <b>optional</b> .
<b>41</b>	"Specification E" All-In-one	Processor Family, 10th Generation	We propose to go for 10400	No change



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	Computer System	Intel Core i5-10400T, 12 MB Cache, 6 Cores, 12 Threads, 2.0 GHz to 3.6 GHz or equivalent or better.	processor or higher	
42	Page No. 39	39, Sr. No. 3 / Resolution (Pixels)	Resolution should be 5 Megapixels or higher, Higher resolutions mean that there more pixels per inch (PPI), resulting in more pixel information and creating a high-quality, crisp image.	Yes changed to Full HD Resolution i.e. <b>1920x1080</b>
43	Page No. 39	39, Sr. No. 4 / Image Pickup Device	In Place of 3 inch it should be 0.33	Yes changed to 3MP or better
44		39, Sr. No. 11/Image Memory (Number of Images)	In place of 32 Pages image memory, Please amend 1000 Pages or better ( Internal/External)	<b>Optional</b>
45	Additional	Additional	Please add Quality Certificate : CE, ROHS & ISO-9001/ISO14001  Quality Controls	The product to be CE/UL, ROHS <b>OR</b> the product to be BIS certified
46	Additional	Additional	Sample needs to be submit for technical Evaluation,  To check product Quality & performance	Depend upon requirement.
47	45, UPS 2 KVA For Network/ Server Rooms	Output Voltage and Frequency (On Battery), 230 V +/- 3% with 50 Hz	Request you to please change this to "230 V +/- 1% with 50 Hz"  As per IEE , Indian Frequency works on 50 Hz. +/- 1% Regulation	No change
48	38, 2 TB USB Hard Disk (with external power adapter) for Court Complexes	Warranty , 5 Years	Request you to please change as below as per standard all OEM warranty available.  "2 years on NAS and 3years on HDD"	Yes, 3 years limited warranty on hard disk
49	39, Document Visualizer	Resolution (Pixels) , HD (1280 x 720) or better	Request you to please change as below: <b>"Resolution should be 5 Megapixels or higher"</b>  Higher resolutions mean that there more pixels per inch (PPI), resulting in more pixel information and creating a high-quality, crisp image.	Yes changed to Full HD Resolution i.e. <b>1920x1080</b>



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<b>50</b>	39, Document Visualizer	Image Pickup Device, 3 inch or better	<b>Please amend:</b> In Place of 3 inch it should be 0.33	Yes changed to 3MP or better
<b>51</b>	39, Document Visualizer	Image Memory (Number of Images), 32 or better	In place of 32 Pages image memory, Please amend 1000 Pages or better (Internal/External)	Not required
<b>52</b>	Document Visualizer	Additional	Please add <b>Quality Certificate : CE, ROHS &amp; ISO-9001/ISO14001</b>  For Quality Controls.	The product to be CE/UL, ROHS <b>OR</b> the product to be BIS certified
<b>53</b>	43, All-in-One Computer System	Processor Family, 10th Generation Intel Core i5-10400T, 12 MB Cache, 6 Cores, 12 Threads, 2.0 GHz to 3.6 GHz or equivalent or better.	Request to change the processor Core i5-10400 as the base frequency is better.  " <b>10th Generation Intel Core i5-10400, 12 MB Cache, 6 Cores, 12 Threads, 2.90 GHz to 4.30 GHz (Max Turbo frequency) or equivalent or better.</b> "	No change
<b>54</b>		Time for Completion of the work / project, 60 days	<b>Request you to please change as below:</b> Time for Completion of the work / project - 240 Days As it is genuine completion time.	No change
<b>55</b>	37, Projectors with Screen for Court Complexes	Zoom , Manual Zoom(x1.2x) %	Request you to please amend as: <b>Manual Zoom(x1.1x) %</b>	Yes changed to 1.1X zoom or better
<b>56</b>	37, Projectors with Screen for Court Complexes	Throw Ratio, 1.37:1 to 1.80:1	Request you to please amend as: <b>1.94 ~ 2.16 (51"@2m)</b>	Changed to "1.94 ~ 2.16 (51"@2m)" <b>OR</b> 1.37:1 to 1.80:1 or better
<b>57</b>	37, Projectors with Screen for Court Complexes	<b>Ports,</b> HDMI with MHL support, <u>HDMI Port</u> , Audio In, Audio Out, Video In, Analog RGB In, Analog RGB Out and Storage Media Port (USB - Type A)	Request you to please amend as: Analog RGB/Component Video (D-sub) x 1 (Input Interface) <b>HDMI1.4a (Video, Audio, HDCP) x 1 ( only 1 ) (Input Interface)</b> PC Audio (Stereo mini jack) x 1 (Input Interface) Composite Video (RCA) x 1(Input Interface) USB (Wireless dongle, Hidden Type A2.0) x 1 (Input Interface) DC Out (5V/1A, USB Type A) x 1 (Output Interface for power only ) PC Audio (Stereo mini jack) x 1 (Output Interface )	Yes changed to <u>HDMI Port</u> , Audio In, Audio Out, Video In, Analog RGB In, Analog RGB Out and Storage Media Port (USB - Type A)



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<b>58</b>	37, Projectors with Screen for Court Complexes	Connectivity, LAN, WiFi (inbuilt / external)	Request you to please amend as:  USB (Wireless dongle, Hidden Type A2.0) x 1 ( Inbuilt with Wireless Dongle ) /LAN	Yes changed to LAN ( <b>optional</b> ) ,WiFi (inbuilt / external) ( mandatory)
<b>59</b>	42, Display Unit for VC System With Branded HDMI Cable	BIS certification.	Request you to please add UL Certification.	The product to be UL, FCC <b>OR</b> the product to be BIS certified.
<b>60</b>	42, Display Unit for VC System With Branded HDMI Cable	Brightness:- minimum 350 cd / m2 NITS or better	Request you to please amend as:  minimum 300 nits or better	No change
<b>61</b>	<b>Additional</b>	DISPLAY UNIT FOR VC SYSTEM WITH BRANDED HDMI CABLE	Additional , Product should be commercial display not hotel TV	The vendor has to quote Commercial Display/ panels
<b>62</b>	37, Section – VII, Technical Specifications, Specification –A, Point-6	Manual Zoom(x1.2x) %	Request you to kindly modify the clause to "Manual Zoom(x1.1x) %" The given clause is specific to an OEM as every OEM has different zoom percentage as per their TR & Chipset, thus request you to kindly make it generic so that all the OEMs can participate	Yes changed to 1.1X zoom or better
<b>63</b>	37, Section – VII, Technical Specifications, Specification –A, Point-7	Throw Ratio- 1.37:1 to 1.80:1	Request you to kindly modify the clause to " <u>1.94 ~ 2.16 (51"@2m)</u> "  Request you to make it generic so that all the OEMs can participate in the RFP	Changed to "1.94 ~ 2.16 (51"@2m)" <b>OR</b> 1.37:1 to 1.80:1 or better
<b>64</b>	37, Section – VII, Technical Specifications, Specification –A, Point-9	Keystone Correction- Automatic	Request you to kindly modify the clause to "Keystone Correction- Automatic/Manual"  Kindly make it Manual also as more than 70% of the OEMs have Manual Keystone Correction	No change
<b>65</b>	37, Section – VII, Technical Specifications, Specification –A, Point-13	Ports- HDMI with MHL support, HDMI Port, Audio In, Audio Out, Video In, Analog RGB In, Analog RGB Out and Storage Media Port (USB - Type A)	Request you to kindly modify the clause as"HDMI with MHL Support or HDMI Port, Audio In, Audio Out, Video In, Analog RGB In, Analog RGB Out and Storage Media Port (USB - Type A)"  HDMI WITH MHL IS USED IN PROTABLE PROJECTORS FOR GAMING & OTHER ACTIVITY AND SECONDLY MHL SUPOORTED MOBILES	Yes changed to HDMI Port, Audio In, Audio Out, Video In, Analog RGB In, Analog RGB Out and Storage Media Port (USB - Type A)





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			ARE VERY RARED IN MARKETS ALL MOBILE DO NOT SUPPORT MHL SO KINDLY MAKE IT OPTIONAL	
66	37, Section – VII, Technical Specifications, Specification –A, Point-14	Connectivity- LAN, WiFi (inbuilt / external)	Request you to kindly modify the clause as" Connectivity- LAN/WiFi (inbuilt / external) (Optional)"  LAN IS USED IN PROJECTOR FOR CONTROLLING & DISPLAY OUT & IN INDUSTRY VERY LIMITED OEM ARE PROVIDING THE SAME AND OTHER MAJORLY OEM GIVING RS232 FOR CONTROLS, SO WE REQUEST TO MAKE IT OPTIONAL AND AS HDMI PORT IS THERE SO NOT REQUIRED LAN	Yes changed to LAN ( <b>optional</b> ) ,WiFi (inbuilt / external) ( mandatory)
67	38, Section – VII, Technical Specifications, Specification –B, Point-4	Accessories- USB 3.0 cable, AC Power Adaptor	Request you to kindly modify the clause as" AC Power Adaptor"  A NAS Box comes only with the LAN Cable not with USB Cable	No change
68	38, Section – VII, Technical Specifications, Specification –B, Point-7	Warranty- 5 Years	Request you to kindly modify the clause as "Warranty on NAS should be 2 years and on HDD 3 years"  A NAS BOX & HDD doesn't come with 5 years warranty, request you to kindly change it accordingly	Yes, 3 years limited warranty on hard disk
69	39, Section – VII, Technical Specifications, Specification –C, Point-4	Image Pickup Device 3 inch or better	Request you to kindly modify the clause as"1/2.7" "  The given clause is supporting only one OEM, request you to kindly make it generic	Yes changed to 3MP or better
70	39, Section – VII, Technical Specifications, Specification –C, Point-11	Image Memory (Number of Images)- 32 or better	Request you to kindly remove this point  Image memory is not in specification of DC, DC comes with support of SD card.	<b>Optional</b>
71	39, Section – VII, Technical Specifications, Specification –C, Point-12	Image Roation Facility (Degree C)- (Tilt, rotate) 90, 180, 270	Request you to kindly modify the clause as"(Tilt) 180,270"  The given clause is supporting only one OEM, request you to	Yes changed to (tilt, rotate) 90 <sup>o</sup> ,180 <sup>o</sup> or better



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			kindly make it generic	
<b>72</b>	39, Section – VII, Technical Specifications, Specification –C, Point-18	Network Connectivity- Yes Required	Request you to kindly remove this point or make it optional  Document camera connects with Hdmi, usb and VGA port only, there is not need of Network port. Request you to remove this.	Yes Network connectivity is made <b>optional</b> .
<b>73</b>	43, Section – VII, Technical Specifications, Specification –E, Point-5, Sub-Point-4	Processor Family- 10th Generation Intel Core i5-10400T, 12 MB Cache, 6 Cores, 12 Threads, 2.0 GHz to 3.6 GHz or equivalent or better.	Request you to kindly modify the clause as"10th Generation Intel® Core™ i5-10500T, 12 MB Cache, 6 Cores, 12 Threads, 2.3 GHz to 3.8 GHz, 35 W"  i5-10400 T is a Home Segment Processor and you have asked for Commercial Segment only thus we request you to kindly change processor to i5-10500T	No change
<b>74</b>	43, Section – VII, Technical Specifications, Specification –E, Point-5, Sub-Point-5	Base Frequency- 10th Generation Intel Core i5-10400T, 12 MB Cache, 6	Request you to kindly modify the clause as"10th Generation Intel® Core™ i5-10500T, 12 MB Cache, 6 Cores, 12 Threads, 2.3 GHz to 3.8 GHz, 35 W"  i5-10400 T is a Home Segment Processor and you have asked for Commercial Segment only thus we request you to kindly change processor to i5-10500T	No change
<b>75</b>	44, Section – VII, Technical Specifications, Specification –E, Point-5, Sub-Point-10	Expandable Memory- Upto 32 GB, at least 2 slots	Request you to kindly modify the clause as "Expandable Memory- Upto 64 GB, at least 2 slots"  Since you are asking for i5 processor thus you might have a future requirement for higher memory thus we suggest to increase the expandable memory	No change
<b>76</b>	44, Section – VII, Technical Specifications, Specification –E, Point-5, Sub-Point-11	Hard Disk- Integrated Dual Port SATA III controller, HDD 1 TB, 7200 RPM or more / above	Request you to kindly modify the clause as"1TB SATA 7200 RPM, single port controller "  There is only single port controller irrespective of a Single Port or a dual port, thus we request you to kindly change it to single port controller	No change
<b>77</b>	44, Section – VII, Technical Specifications, Specification –E, Point-5, Sub-Point-18	Monitor Mounting Support- Vesa Screws Cover for Wall Mount ( <b>Optional</b> )	Request you to kindly modify the clause as "Vesa Screws Cover for Wall Mount / AIO Basic Stand"  We suggest you to ask for at least a basic stand for AIO, as it	No change



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			is important for AIO	
<b>78</b>	44, Section – VII, Technical Specifications, Specification –E, Point-5, Sub-Point-25	USB Port- 4 x USB 2.0, 2 x USB 3.0/3.1 / 3.2 or better	Request you to kindly modify the clause as"USB Port- 2 x USB 2.0, 4 x USB 3.0/3.1 / 3.2 or better"  USB 2.0 is obsolete now thus we suggest to ask for only 2 X USB 2.0 and ask for higher USB 3.0/3.1/3.2 Port as it is the latest technology which is found in most of the products	No change, the vendor may give higher side.
<b>79</b>	44, Section – VII, Technical Specifications, Specification –E, Point-5, Sub-Point-26	Other Ports- Mic In, Speaker Out, Rj45, VGA/HDMI/Display Port Out	Request you to kindly modify the clause as "Universal Audio Jack,Rj45, VGA/HDMI/Display Port Out"  Instead of asking different ports for Audio, we suggest to kindly opt for Universal Audio Port only	Yes changed to Other Ports- Mic In, Speaker Out/ Universal Audio Jack, Rj45, VGA/HDMI/Display Port Out
<b>80</b>	42, Section – VII, Technical Specifications, Specification –E, Point-3, Sub-Point-10	BIS certification.	Request you to kindly modify the clause as"BIS certification, UL,FCC"  We request you to kindly ask for certifications in Display unit so that Honourable Court gets good standard brand only	The product to be UL, FCC <b>OR</b> the product to be BIS certified.
<b>81</b>	43, Section – VII, Technical Specifications, Specification –E, Point-4, Sub-Point-8	Efficiency- 80% or more	Request you to kindly modify the clause as "Inverter efficiency: 75%"  Line interactive UPS normally comes with a efficiency of 75% only	No change
<b>82</b>	43, Section – VII, Technical Specifications, Specification –E, Point-4, Sub-Point-20	Warranty- 5 years Onsite including batteries	Request you to kindly modify the clause as "5 years Onsite on UPS and 2 years on batteries"  Warranty on Batteries is only for 2 years max	No change
<b>83</b>	45, Section – VII, Technical Specifications, Specifications-F, Point-3	Output Voltage and Frequency (On Mains)- 230 +/- 5 % with AVR (Automatic Voltage Regulation), 50 hz +/- synchronized with Input Power Frequency	Request you to kindly modify the clause as "Output Voltage and Frequency (On Mains)- 230 +/- 2 % , 50 hz +/- synchronized with Input Power Frequency"  Online UPS doesn't have the requirement for AVR	No change
<b>84</b>	45, Section – VII, Technical Specifications,	Other Features- Cold Start, Auto Start, Generator	Request you to kindly modify the clause as "Cold Start, Auto Start, Generator Compatible, RS232	Yes changed to Other Features- Cold Start, Auto



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	Specifications-F, Point-10	Compatible, No Load Shutdown, RS232 communication, Display	communication, Display" Kindly remove "No Load Shutdown" as it is the feature of line interactive ups	Start, Generator Compatible, RS232 communication, Display
<b>85</b>	45, Section – VII, Technical Specifications, Specifications-F, Point-16	Audible noise at 1 meter from surface of unit- Not more than 45.00 dBA	Request you to kindly modify the clause as "Audible noise at 1 meter from surface of unit- Not more than 50.00 dBA"  Request you to make it generic so that all the OEMs can participate in the RFP	No change
<b>86</b>	45, Section – VII, Technical Specifications, Specifications-F, Point-17	Output Sockets- 4 or more with 3 pin	Request you to kindly modify the clause as "Output Sockets- 3 or more with 3 pin"  Request you to make it generic so that all the OEMs can participate in the RFP	No change
<b>87</b>	45, Section – VII, Technical Specifications, Specifications-F, Point-19	Warranty- 5 years Onsite including batteries reputed Make like Exide/ Amron Quanta/ Panasonic etc.	Request you to kindly modify the clause as "5 years Onsite on UPS and 2 years on batteries reputed Make like Exide/ Amron Quanta/ Panasonic etc."  Warranty on Batteries is only for 2 years max	No change
<b>88</b>	43, Section – VII, Technical Specifications, Specification –E, Point-5, Sub-Point-4	Processor Family- 10th Generation Intel Core i5- 10400T, 12 MB Cache, 6 Cores, 12 Threads, 2.0 GHz to 3.6 GHz or equivalent or better.	Request you to kindly modify the clause as "Processor Family- 10th Generation Intel Core i5- 10400, 12 MB Cache, 6 Cores, 12 Threads, 2.0 GHz to 3.6 GHz or equivalent or better."  Please remove "T Processor" as it a very low processor in comparison to 10400 Processor	No change
<b>89</b>	43, Section – VII, Technical Specifications, Specification –E, Point-5, Sub-Point-5	Base Frequency- 10th Generation Intel Core i5- 10400T, 12 MB Cache, 6	Request you to kindly modify the clause as "10th Generation Intel Core i5- 10400, 12 MB Cache, 6"  Please remove "T Processor" as it a very low processor in comparison to 10400 Processor	No change
<b>90</b>	Page No. 40 and 41 - Category - USB based Microphones Cum Speaker With Built-In	Local Microphone Mute/Un-mute button with visual indication such as bi-colour LED	Bi-Color LED Indication for mute & un-mute is proprietary to one Brand and is not generally required. We Request you to modify it to single color LED indication when the microphone	Yes accepted, but the rest terms to be as per the tender document.



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	Echo Canceller For Desktop Based VC System, Point Number 6.		is muted and no LED indication when the microphone is On. This modification will not make any difference while using the product and will enable us to participate in the bid.	
<b>91</b>	Page No. 40 and 41, Category- USB Based PTZ Web Camera for Desktop Based VC System, Point Number 6.	Thermal stabilized Lens such as Carl Zeiss lens with autofocus/ High Precision Lens for clear picture	CARL ZEISS IS A PROPRIETARY LENS BRAND BEING USED BY ONLY ONE MANUFACTURER. There are multiple such lens Manufacturing companies all Camera Manufacturers use Lens from different brands for better video outcome as per their camera specifications. Hence, request you to remove "CARL-ZEISS" Lens.	No change, The vendor may quote higher side.
<b>92</b>	Page No. 40 and 41, Category - USB Based PTZ Web Camera for Desktop Based VC System, Point Number 2, 3 and 11.	2. Motorized PTZ (Pan, Tilt, Zoom) 3. 180 Degrees PAN, 50 Degrees tilt and 70 Degrees Field View 11. Remote Controller to PTZ functions	PTZ Cameras without OPTICAL ZOOM are of NO USE in any Video Conferencing System. Only PAN & TILT Features can be easily replaced with a 110 degree Field Of View Wide Angle Fixed Lens Full HD (1080p) Web Camera and would save a lot of cost for the department. For Web Camera, Remote Control should be removed. If PTZ Cameras are required, we would request you to select a Professional PTZ Camera with 1080p Resolution @ 60fps with minimum 12X Optical Zoom, PAN Rotation of - 170 degree to + 170 degree (Total 340 degree), Tilt Angle of Minimum -30 degree to 90 degree (Total 120 degree) with USB 3.0 Out for True Full HD (1080p) Video Output. If Professional PTZ Camera is selected, Remote Control should be made mandatory.	No change, Tender terms will prevail.
<b>93</b>	Page No. 40 and 41, Category - USB Based PTZ Web Camera for Desktop Based VC System, Point Number 10.	Built-in microphones for audio pickup from distance of 5 feet	Built In Microphones are of NO USE as you are buying a separate device for Microphone & Speaker. Integrated Microphones in Web Cameras are not Professional Microphones and do not have any echo cancellation & noise-cancellation mechanism. Hence, Request you to remove this point.	No change
<b>94</b>	Page No. 40 and 41, Category -	10 feet additional USB extension	Extension Cables will not be required if you select a	No change



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	USB Based PTZ Web Camera for Desktop Based VC System, Point No. 12	connecting cable	professional PTZ Camera with Optical Zoom, Wide PAN & Tilt angles as you can use the remote controller for PTZ features. In Case, you are selecting a normal Web Camera with Wide Field of View, 10 Feet Extension Cable will be required for moving the camera as per your requirement.	
95	Page No. 40 and 41, Category - USB Based PTZ Web Camera for Desktop Based VC System, Point No. 12	10 feet additional USB extension connecting cable	Extension Cables will not be required if you select a professional PTZ Camera with Optical Zoom, Wide PAN & Tilt angles as you can use the remote controller for PTZ features. In Case, you are selecting a normal Web Camera with Wide Field of View, 10 Feet Extension Cable will be required for moving the camera as per your requirement.	No change
96	Additional Terms & Conditions Request	Additional Terms & Conditions Request	This Tender does have any Purchase Preference to Make in India Manufacturers OR Manufacturers registered under Medium & Small Enterprises. This goes against the Government Of India Guidelines of giving Purchase Preference to Indian Manufacturers / MSME Registered Manufacturers / Make In India Products as per Department of Expenditure Office Memorandum dated 28.5.2020. Hence, we would request you to add Preference to Make In India Products Standard clause in this tender.	Quote as per tender document.
97	“Specifications-E” Section 3. Display Unit For VC System With Branded HDMI Cable	Brightness:- minimum 350 cd / m2 NITS or better	Brightness:- minimum 300 cd / m2 NITS or better  As we come with 300nits brightness, please allow us to participate	No change
98	--	---	Product should not be Hotel TV, product should be commercial grade display with 50000 Hrs MTBF as Hotel TV only comes with 30000 MTBF  As you are going to use this panel as Signage and there is no commercial parity in both the products	The product to be commercial grade not Hotel TV / products.



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99	37, Specification A : Projector with Screen: Point no. 1 :	LCD/DLP	Request you to make it LCD for equal color and white brightness	No change
100	37, Specification A : Projector with Screen: Point no. 13 : Ports	HDMI with MHL support, HDMI Port, Audio In, Audio Out, Video In, Analog RGB In, Analog RGB Out and Storage Media Port (USBType A) (Point no 13)	Request you to remove this specs, as there is no use of MHL support as the projector will be in ceiling and your mobile phone will be in your hand. Data transfer will be problem. You can connect with Wifi facility from mobile. Specs favoring particular OEM.	Yes changed to HDMI Port, Audio In, Audio Out, Video In, Analog RGB In, Analog RGB Out and Storage Media Port (USBType A)
101	38, Specification B : External USB Hard Disk: Point no. 7 : Warranty	5 Years	Kindly amend to 2years Standard Warranty on box and 3years on HDD	Yes, 3 years limited warranty on hard disk
102	39, Specification C : Document Visualizer : Point no. 4 : Image Pickup Device	3 inch or better	Request you to make it 1/2.7". Favoring particular OEM.	Yes changed to 3MP or better
103	39, Specification C : Document Visualizer : Point no. 11 : Image Memory (Number of Images)	32 or better	Image memory is not in specification of DC, DC comes with support of SD card.	<b>Optional</b>
104	39, Specification C : Document Visualizer : Point no. 12 : Image Rotation Facility (Degree C)	(Tilt, rotate) 90, 180, 270	Request you to make 180 tilt, 270 tilt favoring particular OEM.	Yes changed to (tilt, rotate) 90 <sup>o</sup> , 180 <sup>o</sup> OR better
105	39, Specification C : Document Visualizer : Point no. 18 : Network	Network	Document camera connects with Hdmi, usb and VGA port only, there is not need of Network port. Request you to remove this.	Yes Network connectivity is <b>optional</b> .
106	42, Specification E-3: Display Unit : Point No. 1	40 or more inches FHD (Full High Definition) LED Monitor compatible with VC SYSTEM as given at Item 1 above	Kindly amend to 43"	No change
107	-	42, New Point Request	We request to add following features in Display Unit to get good quality product  Certification: UL, FCC for better technology product.	The product to be UL, FCC <b>OR</b> the product to be BIS certified.



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<b>108</b>	43, Specification E-4 : UPS: Point no. 8 : Efficiency	80% or more	UP to 75 % because line interactive UPS normally efficiency 75%	No change
<b>109</b>	43, Specification E-5 : All-In-one Computer System: Point no. 5 : Base Frequency	10th Generation Intel Core i5-10400T, 12 MB Cache, 6 Cores, 12 Threads, 2.0 GHz to 3.6 GHz or equivalent or better.	2.0 GHz or equivalent or better	No change
<b>110</b>	44, Specification E-5 : All-In-One Computer System: Point no. 9 : System Memory (RAM)	8 GB, 2400 Mhz DDR-IV Memory or Higher	8GB DDR4 2666MHz or Higher	No change
<b>111</b>	44, Specification E-5 : All-In-One Computer System: Point no. 19 Web Camera	2.0 Megapixel HD Built In Webcam or Higher side	1080p webcam or Higher side	No change
<b>112</b>	44, Specification E-5 : All-In-One Computer System: Point no. 21: Microphone	Digital Microphone	Dual array microphone	Yes changed to Dual array microphone/ Digital Microphone
<b>113</b>	44, Specification E-5 : All-In-one Computer System: Point no. 25: USB Port	4 x USB 2.0, 2 x USB 3.0/3.1 / 3.2 or better	3 x USB 2.0, 2 x USB 3.1 Gen 1, 1x USB 3.1 Type-C Gen 1	No change
<b>114</b>	44, Specification E-5 : All-In-One Computer System: Point no.26: Other Ports	Mic In, Speaker Out, Rj45, VGA/HDMI/Display Port Out	one headphone / microphone combo jack ,Rj45,HDMI-in, HDMI-out	Yes changed to Other Ports- Mic In, Speaker Out/ Universal Audio Jack, Rj45, VGA/HDMI/Display Port Out
<b>115</b>	44, Specification E-5 : All-In-one Computer System: Point no. 28: Energy Certification	Energy Star (EPA) version 5.0 or later/ BEE India Star version 1 or later	ENERGY STAR 8.0 or later	No change.
<b>116</b>	---	---	We request you to keep 350 Nits to ensure required brightness in Display, Low brightness leads to dull picture in VC application	Quote as per tender.





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117	---	----	Table Top & Wall mount – Kindly mention both to quote accordingly, If you mention in tender, Factory will offer both on same price	Wall mount is mandatory but on same price if table top is also provided by the Company then it is acceptable along with wall mount.
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On the basis of queries of various bidders/ OEM, the overall final technical specifications for compliance are updated /modified as under:-

### “SPECIFICATION –A”

#### PROJECTORS WITH SCREEN FOR COURT COMPLEXES

S.No.	Specification		Specification Changed in this Clarification	Technical Compliance Yes / No (to be filled by bidder)
1	Technology	LCD / DLP		
2	Projection Method	Front & Rear Both		
3	Native Resolution	1024 x 768 (XGA) or 1366 x 768 or better		
4	Brightness	3200 Lumens or more		
5	Contrast Ratio (Minimum)	12000:1		
6	Zoom	Manual Zoom(x1.2x) %	Yes changed to 1.1X zoom or better	
7	Throw Ratio	1.37:1 to 1.80:1	Changed to "1.94 ~ 2.16 (51"@2m)" <b>OR</b> 1.37:1 to 1.80:1 or better	
8	Aspect Ratio	4:3		
9	Keystone Correction	Automatic		
10	Minimum Life Of Projection Lamp	5,000 Hours (In Normal Mode)		
11	Counter	Lamp Hour Counter (In-Built)		
12	Video Compatibility	PAL/NTSC		
13	Ports	HDMI with MHL support, <u>HDMI Port</u> , Audio In, Audio Out, Video In, Analog RGB In, Analog RGB Out and Storage Media Port (USB - Type A)	Yes changed to HDMI Port, Audio In, Audio Out, Video In, Analog RGB In, Analog RGB Out and Storage Media Port (USB - Type A)	
14	Connectivity	LAN, WiFi (inbuilt / external)	Yes changed to LAN ( <b>optional</b> ),WiFi (inbuilt / external (mandatory)	
15	Noise Level	Upto 35 dB (Sleep Mode), Upto 38 dB(Normal Mode )		
16	Power Supply	210V-240V, 50 Hz		



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17	Other features	Remote Control, Speaker, Auto lens off, Energy Saving Compliance of prescribed standard		
18	OEM	Original Equipment Manufacturer (OEM) Product		
19	Warranty Period	5 Years on Site		
<b>SCREEN FOR COURT COMPLEXES</b>				
20	Size (feet)	8 X 6 or more		
21	Type	MAP (Calendar) / Wall / Stand Mount (Tripod Type)	Yes changed to tripod/ stand mount with Matte White Fabric with 120" (4:3) ratio only or better	
22	Format	4:3	Yes changed to Wall mount projector screen 120" (4:3) ratio with insta lock and slow retraction system with Matte white fabric screen along with tripod.	
23	Actual Screen size	85 X 65 Inches or more		
24	Material	High Gain Fabric - Treated Matte - Low Reflection -Wide Angle - Anti UV coating		
ALL THE ABOVE SPECIFICATIONS SHOULD BE READ AS <u>EQUIVALENT OR BETTER.</u>				

**"SPECIFICATION –B"**

**EXTERNAL USB HARD DISKS FOR COURT COMPLEXES**

S.No.	Specification	Specification Changed in this Clarification	Technical Compliance Yes/ No (to be filled by bidder)
	2 TB USB Hard Disk (with external power adapter) for Court Complexes		
1	Memory Storage Capacity	2 TB USB with external power adaptor	
2	Connectivity	USB 3.0 with backward compatibility for USB 2.0, Gigabit Ethernet (RJ45)	
3	Operating Systems Compatibility	Compliance with Linux & Windows partition types	
4	Accessories	USB 3.0 cable, AC Power Adaptor	
5	Power Adaptor	External	
6	Features	Read & Write Storage access through network protocols like samba, cifs etc.	
7	Warranty	5 Years	Yes, 3 years limited warranty on hard disk
ALL THE ABOVE SPECIFICATIONS SHOULD BE READ AS EQUIVALENT OR BETTER.			



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**“SPECIFICATIONS-C”**

**SPECIFICATIONS OF DOCUMENT VISUALIZER**

S.No.	Specifications		Specification Changed in this Clarification	Technical Compliance Yes/No (to be filled by bidder)
1	Type	Desktop		
2	Technology	CMOS or better		
3	Resolution (Pixels)	HD (1280 x 720) or better	Yes changed to Full HD Resolution i.e. <b>1920x1080</b>	
4	Image Pickup Device	3 inch or better	Yes changed to 3MP or better	
5	Video Frame Rates (fps)	30 or more		
6	Optical Zoon	20 or more		
7	Shooting Area (mm)	A4		
8	Focusing Arrangement	Auto & Manual Both		
9	Layout	Landscape		
10	Digital magnification	8 or better		
11	Image Memory (Number of Images)	32 or better	<b>Optional</b>	
12	Image Rotation Facility (Degree C)	(Tilt, rotate) 90°, 180°, 270°	Yes changed to (tilt, rotate) 90°, 180° <b>OR</b> better	
13	Light Source	White LED		
14	Life OF Lamp used (Years)	05 years		
15	USB Port (Number)	1		
16	VGA Port (Number)	1		
17	HDMI Port (Number)	1		
18	Network Connectivity	Yes required	Yes Network connectivity is made <b>optional</b> .	
19	Full Function Remote Control	Yes required		
20	Light Box	Yes	Yes Light Box is made <b>optional</b> .	
21	Input/ Output	USB, Plug-n-Play		
22	White Balance	Auto / Manual		
23	Warranty	05 Years		
24	New Pointe Added	Certification	The product to be CE/UL, ROHS <b>OR</b> the product to be BIS certified	
ALL THE ABOVE SPECIFICATIONS SHOULD BE READ AS EQUIVALENT OR BETTER.				

**“SPECIFICATIONS-D”**

**MIKE & CAMERA**

**1. USB BASED MIRCOPHONES CUM SPEAKER WITH BUILT-IN ECHO CANCELLER FOR DESKTOP BASED VC SYSTEM**

S. No.	Specifications of Desktop based Video Conferencing Equipments	Specification Changed in this Clarification	Technical Compliance Yes/No (to be filled by bidder)
1	USB based plug-n-play device to operate with various Linux OS including Ubuntu Linux & Windows Operation System		



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2	Good pickup of about 1.5 meters (6-7 feet) distance from the Microphone coverage of 360 Degree		
3	Full Duplex Operation (Speak and listen simultaneously)		
4	Built-in Echo Cancellation		
5	Volume Control button for increase and decrease according to local preferences		
6	Local Microphone Mute/Un-mute button with visual indication such as bi-colour LED		
7	Frequency response for microphone - 200 Hz - 7 KHz or better		
8	HD quality speaker output		
9	3.5 mm mini phone connector to connect to external devices such as speaker and Microphones with echo cancellation		
10	Upgradable Firm-ware		
11	With 10 feet additional USB extension connecting cable		
12	5 years Onsite Warranty		

**2. USB BASED PTZ WEB CAMERA FOR DESKTOP BASED VC SYSTEM**

S. No.	Specifications	Specification Changed in this Clarification	Technical Compliance Yes/No (to be filled by bidder)
1	USB based plug-n-play device to operate with various PCs/Laptops		
2	Motorized PTZ (Pan, Tilt, Zoom)		
3	180 Degrees PAN, 50 Degrees tilt and 70 Degrees Field View		
4	Compliance to USB 2.0 or better		
5	Full HD 1080p30 video calling (up to 1920 x 1080 pixels)		
6	Thermal stabilized Lens such as Carl Zeiss lens with autofocus/ High Precision Lens for clear picture	The vendor may quote higher side or better specification.	
7	Compliant with software for video recording using H.264 codec	Compliant with software for video recording using H.264 codec/ H.265 codec	
8	Compliant with various Linux OS including Ubuntu Linux, Windows and Mac OS systems Minimum 5 feet USB connecting cable		
9	Compliant low lighting environment		
10	Built-in microphones for audio pickup from distance of 5 feet		
11	Remote Controller to PTZ functions		
12	10 feet additional USB extension connecting cable		
13	5 years Onsite Warranty		



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**“SPECIFICATIONS-E”**

**DESKTOP BASED VIDEO CONFERENCING SYSTEM (AS A PACKAGE SR. NO. 1 to 5)**

**1. USB BASED MIRCOPHONES CUM SPEAKER WITH BUILT-IN ECHO CANCELLER FOR DESKTOP BASED VC SYSTEM**

S. No.	Specifications of Desktop based Video Conferencing Equipments	Specification Changed in this Clarification	Technical Compliance Yes/No (to be filled by bidder)
1	USB based plug-n-play device to operate with various Linux OS including Ubuntu Linux & Windows Operation System		
2	Good pickup of about 1.5 meters (6-7 feet) distance from the Microphone coverage of 360 Degree		
3	Full Duplex Operation (Speak and listen simultaneously)		
4	Built-in Echo Cancellation		
5	Volume Control button for increase and decrease according to local preferences		
6	Local Microphone Mute/Un-mute button with visual indication such as bi-colour LED	Local Microphone Mute/Unmute button with visual indication such as bi-colour LED/ single color LED	
7	Frequency response for microphone - 200 Hz - 7 KHz or better		
8	HD quality speaker output		
9	3.5 mm mini phone connector to connect to external devices such as speaker and Microphones with echo cancellation		
10	Upgradable Firm-ware		
11	With 10 feet additional USB extension connecting cable		
12	5 years Onsite Warranty		

**2. USB BASED PTZ WEB CAMERA FOR DESKTOP BASED VC SYSTEM**

S. No.	Specifications	Specification Changed in this Clarification	Technical Compliance Yes/No (to be filled by bidder)
1	USB based plug-n-play device to operate with various PCs/Laptops		
2	Motorized PTZ (Pan, Tilt, Zoom)		
3	180 Degrees PAN, 50 Degrees tilt and 70 Degrees Field View		
4	Compliance to USB 2.0 or better		
5	Full HD 1080p30 video calling (up to 1920 x 1080 pixels)		
6	Thermal stabilized Lens such as Carl Zeiss lens with autofocus/ High Precision Lens for clear picture	The vendor may quote higher side.	
7	Compliant with software for video recording using H.264 codec	Compliant with software for video recording using H.264 codec / H.265 codec	
8	Compliant with various Linux OS including Ubuntu Linux, Windows and Mac OS systems Minimum 5 feet USB connecting cable		



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9	Compliant low lighting environment		
10	Built-in microphones for audio pickup from distance of 5 feet		
11	Remote Controller to PTZ functions		
12	10 feet additional USB extension connecting cable		
13	5 years Onsite Warranty		

### 3. DISPLAY UNIT FOR VC SYSTEM WITH BRANDED HDMI CABLE

S. No.	Specifications	Specification Changed in this Clarification	Technical Compliance Yes/No (to be filled by bidder)
1	40 or more inches FHD (Full High Definition) LED Monitor compatible with VC SYSTEM as given at Item 1 above		
2	Two or more HDMI In Ports with 10 meters HDMI Cable		
3	One D-Sub (No.15) Input for PC Input including for Audio		
4	One Component Video In with audio		
5	Built In Stereo Speakers with Amplifier with 10W x 2 capacity		
6	Table Top Stand / Wall Mount Kit	Wall mount is mandatory but on same price if table top is also provided by the Company then it is acceptable along with wall mount.	
7	Remote Control with Display Unit Functionalities		
8	Input Power 230 +/- 5% with 50 Hz		
9	Energy Star (EPA) ver 5.0 / BEE India Star ver 1 or above.		
10	BIS certification.	The product to be UL, FCC <b>OR</b> the product to be BIS certified.	
11	5 years onsite warranty		
12	Brightness:- minimum 350 cd / m2 NITS or better		
13	Additional	The vendor has to quote Commercial Display only and for this he has to submit proof along with the bid document.	



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**4. UPS FOR VC SYSTEM**

Sr. No.	Specifications	Specification Changed in this Clarification	Technical Compliance Yes/No
1	Capacity	1 KVA LINE INTERACTIVE	
2	Input Voltage and Frequency	140-270 V, 47 to 53 Hz	
3	Output Voltage and Frequency (On Mains)	230 volt + / - 10% with 50 Hz or better	
4	Output Voltage and Frequency (On Battery)	230 volt + / - 10% with 50 Hz or better	
5	Backup Time	60 minutes	
6	Battery Type	Maintenance-free sealed Lead-Acid battery with suspended electrolyte: leak proof	
7	Overload Capacity	110%	
8	Efficiency	80% or more	
9	Output Wave type	Quasi Sine wave or better	
10	Transfer Time	< 5 mili seconds	
11	Load Power Factor	0.6	
12	Other Features	Cold Start, Auto Start, Generator Compatible, No Load Shutdown	
13	Protections from	Surge, Short Circuit, Spikes, DC Under voltage and Overload	
14	Indicators	Mains, On Battery, Charge, Overload	
15	Alarms	Low Battery, Mains Off, Tripping	
16	Operating Environment	0 - 40 °C	
17	Operating Relative Humidity	0 - 95%	
18	Audible noise at 1 meter from surface of unit	Not more than 50.00 dBA	
19	Output Sockets	3 or more with 3 pin	
20	Warranty	5 years Onsite including batteries	

**5. ALL-IN-ONE COMPUTER SYSTEM**

S.No.	Description	Specification	Specification Changed in this Clarification	Technical Compliance YES/NO
1	Category	Business (for work) segment (not Home Segment)(full commercial)		
2	Form Factor	All in one		



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3	Make, Model/ Part No.	(to be given by the bidder- At the time of Technical Evaluation)		
4	Processor Family	10th Generation Intel Core i5-10400T, 12 MB Cache, 6 Cores, 12 Threads, 2.0 GHz to 3.6 GHz or equivalent or better.		
5	Base Frequency	10th Generation Intel Core i5-10400T, 12 MB Cache, 6 Cores, 12 Threads, 2.0 GHz to 3.6 GHz or equivalent or better		
6	Processor Cache	As per Processor		
7	Motherboard & Chipset	Intel B460 Chipset or equivalent or higher or above		
8	TDP (Thermal Design)	Not More than 65 W		
9	System Memory (RAM)	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 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-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	Full 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		





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20	Pointer Device & Keyboard	OEM USB Optical scrolling Mouse, OEM USB Standard 104 Keys Keyboard		
21	Microphone	Digital Microphone	Yes changed to Dual array 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 3.0/3.1 / 3.2 or better	The vendor may give higher side.	
26	Other Ports	Mic In, Speaker Out, Rj45, VGA/HDMI/Display Port Out	Yes changed to Other Ports- Mic In, Speaker Out/ Universal Audio Jack, 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	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		



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		from OEM		
36	Service Centre	Must have Company Authorized Service Centre in Capital City / High Court Place		

**“SPECIFICATIONS-F”**

**SPECIFICATIONS OF UPS 2 KVA FOR NETWORK/ SERVER ROOMS**

S.No.	Specifications	Specification Changed in this Clarification	Technical Compliance Yes/No
1	Capacity	2 KVA ONLINE	
2	Input Voltage and Frequency	140-270 V, 47 to 53 Hz	
3	Output Voltage and Frequency (On Mains)	230 +/- 5 % with AVR (Automatic Voltage Regulation), 50 hz +/- synchronized with Input Power Frequency	
4	Output Voltage and Frequency (On Battery)	230 V +/- 3% with 50 Hz	
5	Backup Time	120 minutes	
6	Battery Type	Maintenance-free sealed Lead-Acid battery with suspended electrolyte : leak proof. 2 KVA UPS with 02 hour back up. Minimum 8600 VAH is required	
7	Overload Capacity	110%	
8	Efficiency	84% or more at Full Load 80% at Half Load	
9	Output Wave type	Pure Sine wave	
10	Other Features	Cold Start, Auto Start, Generator Compatible, No Load Shutdown, RS232 communication, Display,	Yes changed to Cold Start, Auto Start, Generator Compatible, RS232 communication, Display
11	Protections from	Surge, Short Circuit, Spikes, DC Under voltage and Overload	
12	Indicators	Mains, On Battery, Charge, Overload	
13	Alarms	Low Battery, Mains Off, Tripping	
14	Operating Environment	0 - 40 °C	
15	Operating Relative Humidity	0 - 95%	
16	Audible noise at 1 meter from surface of unit	Not more than 45.00 dBA	
17	Output Sockets	4 or more with 3 pin	
18	OEM	Original Equipment Manufacturer (OEM) Product	
19	Warranty	5 years Onsite including batteries of reputed Make like Exide/ Amron Quanta/ Panasonic etc.	
20	Inbuilt charger	Inbuilt battery charger capacity	



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		should be minimum 10% for higher battery life.		
	ALL THE ABOVE SPECIFICATIONS SHOULD BE READ AS EQUIVALENT OR BETTER.			

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

NOTE:-

1. In UPS systems the reputed brand UPS of Make like Emerson, APC, Numeric **or better** is to be quoted by the bidders with 05 years onsite warranty and support on batteries & UPS system having minimum 60 minutes power backup for running one set of All-In-One computer, USB based microphones cum speaker with built-In echo canceller, USB PTZ web camera and display unit.
2. If the vendor is going to provide external batteries with the UPS systems (2 KVA capacity) than the **rack / housing of good quality** is to be provided by the vendor.
3. 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.
4. All the pages of the bids and Annexure's are to be sealed and signed by the authorized officers of the company / vendor.
5. ***The bidder at the time of filling of technical compliance sheet should fill the sheet that is mentioned above in the clarifications.***
6. The bidder has to quote only 01 product of single make / brand at a time and not multiple brands for same item.
7. The Original equipment manufacturer (OEM) may authorize more than one partner for participation in the bid.
8. Back-to-Back support letter is to be submitted by OEM regarding support of the quoted products.
9. The High Court of Madhya Pradesh has full rights to accept or reject any bid, without assigning any reason.
10. The High Court of Madhya Pradesh have right to alter the scope of work as per the requirement.
11. All Prospective bidders are requested to submit the bid with all relevant documents and **product brochures** / catalogues in sequenced manner.



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12. If any variations in specifications then please mention the same in compliance sheet.
13. The above clarifications / addendum are for all the prospective bidders' for tender reference and necessary action.
14. On introduction of new levy / taxes / duties the rate / price of items shall be changed in same proportionate.
15. The decision of the High Court in selection / finalization of items / products shall be final and no objection in this regard shall be entertained.
16. All future clarification / corrigendum shall be made available in the official website of the High Court.
17. The date of online tender submission is extended to 17<sup>th</sup> February, 2021 before 06:00 P.M. (**mandatory**); hardcopy of tender submission is 18<sup>th</sup> February, 2021 before 05:00 P.M. (**mandatory**) and opening of technical bids is 19<sup>th</sup> February, 2021 at 11:00 A.M.

**Sd/-**

**REGISTRAR GENERAL**