

Addendum - 6

Sr. No.	Page No.	Clause No.	Original Clause	To be Replaced by
1	536	Vol._II_-_MSI-Scope_of_Work_Part-5,UC-UCM-1.14	System should have provision to Unified Communications applications to allows authorized users to perform tasks such as migration of older software versions of clusters to new virtual machines, fresh installs, and upgrades on existing clusters	The said functionality stands deleted.
2	537	Vol._II_-_MSI-Scope_of_Work_Part-5,UC-SP-1.36	Should Provide Alert When Available: User should be able to Set the client to notify him/her when a contact becomes available. User should be notified the first time the user next becomes available. A message notification should be given to alert the user that the user is available	Should Provide Notification When Available: User should be able to Set the client to notify him/her when a contact becomes available. User should be notified the first time the user next becomes available.
3	537	Vol._II_-_MSI-Scope_of_Work_Part-5,UC-SP-1.38	Print Chat: The user should have the ability to print a conversation with a right-click from a chat window with another user or by pressing CTRL + P. the user can also highlight a portion of the text to print it	Print Chat: The user should have the ability to print a conversation from a chat window
4	539	Vol._II_-_MSI-Scope_of_Work_Part-5,UC-ACD-1.86	In future if required, the ACD should support active and standby server mode, where the server can be put in DC and DR. In case of Main server in the Data centre fail the standby server in DR should take over seamlessly. ACD solution should support placing of Main and Stand by server in DC and DR respectively	It is required the ACD should support active and standby server mode, where the server can be put in DC and DR. In case of Main server in the Data Centre fail the standby server in DR should take over seamlessly. ACD solution should support placing of Main and Stand by server in DC and DR respectively
5	540	Vol._II_-_MSI-Scope_of_Work_Part-5,UC-IPPBX-1.7	The call control system should be fully redundant solution with NO single point of failures & should provide 1:1 redundancy. Both the server should do call processing all the time and act as backup in case of the failure of one server	The call control system should be fully redundant solution with NO single point of failures & should provide 100% High Availability at the data centre. Both the server should worked in active-active or active-standby mode. If one server fails, secondary server must automatically take control of telephony operations without affecting ongoing or progressing calls
6	540	Vol._II_-_MSI-Scope_of_Work_Part-5,UC-IPPBX-1.8	The call control should support clustering over WAN	Proposed Solution should support redundancy on WAN. Data(Call, User) between multiple locations

REQUEST FOR QUALIFICATION (RFQ) CUM REQUEST FOR PROPOSAL (RFP) FOR APPOINTMENT OF MASTER SYSTEM INTEGRATOR FOR DESIGN, SUPPLY, INSTALL, TEST, INTEGRATE, COMMISSIONING, OPERATION AND MAINTENANCE OF ICT COMPONENTS IN CLUSTER A1 OF ACTIVATION AREA

				must be synchronized automatically without any human intervention
7	542	Vol._II_-_MSI-Scope_of_Work_Part-5,UC-IPPBX-1.61	"Clusters" of Call-Servers for scalability, redundancy, and load balancing	Call-Servers in proposed solution should be able to support high volume of concurrent call (in multiple of ten thousand's) and there should not be a single point of failure. Each call processing server at different locations must support equivalent capacity.
8	542	Vol._II_-_MSI-Scope_of_Work_Part-5,UC-IPPBX-1.62	Interclassed scalability to 100+ sites or clusters through H.323 gatekeeper	Interclassed scalability to 100+ sites through gateway
9	543	Vol._II_-_MSI-Scope_of_Work_Part-5,UC-IPPBX-1.78	Cluster wide trace setting tool	Should have the facility to monitor device status, trace, monitor Remote access service, registration messages, etc.
10	545	Vol._II_-_MSI-Scope_of_Work_Part-5,UC-VCD-1.118	Should be an integrated system with at least 22 to 24 inches LCD/TFT screen, 1080P resolution (16:9), HD camera and with speakers for wide band audio output. The Codec should be a part of the unit. No separate Codec's are preferred. The LCD/TFT screen should be a touch screen to provide a touch interface to the user	Should be an integrated system with at least 23 and above size LCD/TFT screen, 1080P resolution (16:9), HD camera and with speakers for wide band audio output. The Codec should be a part of the unit. No separate Codec's are preferred. The LCD/TFT screen should be a touch/non-touch screen to provide an easier interface to the user through remote control/PC/Laptop keyboards.
11	547	Vol._II_-_MSI-Scope_of_Work_Part-5,UC-MCU-1.171	The MCU should support 40 ports or more at HD 1080p (transmit and receive) up to 4Mbps on IP in continuous presence mode with 30fps, 500 audio ports for conferencing IP Phone users, 100 WebRTC connections and H.264 resolution and AES encryption on the same MCU	The MCU should support 40 ports or more at HD 1080p (transmit and receive) up to 4Mbps on IP in continuous presence mode with 30fps, 500 audio ports for conferencing IP Phone users, 100 WebRTC connections and H.264 resolution and AES encryption on MCU
12	549	Vol._II_-_MSI-Scope_of_Work_Part-5,UC- VCP55-1.194	The system should be an integrated system with Codec, HD 1080p camera with automatic speaker tracking camera, Mic, 7"or higher touch panel, cables and power supply, 55" LCD/LED and a floor mount kit. The 55" screen, codec, camera, microphones, floor cum wall mounted kit should be from same Cisco with a single Cisco part code. The system should not be a locally fabricated unit. The unit should have integrated speakers of minimum 60 watts or more	The system should be an integrated system, HD 1080p camera with automatic speaker tracking cameras or with pre-set setting, total zoom or higher, Mic, remote control, cables and power supply, 55" LCD/LED and a floor mount kit. The system should not be a locally fabricated unit. The unit should have speakers of minimum 60 watts or more

REQUEST FOR QUALIFICATION (RFQ) CUM REQUEST FOR PROPOSAL (RFP) FOR APPOINTMENT OF MASTER SYSTEM INTEGRATOR FOR DESIGN, SUPPLY, INSTALL, TEST, INTEGRATE, COMMISSIONING, OPERATION AND MAINTENANCE OF ICT COMPONENTS IN CLUSTER A1 OF ACTIVATION AREA

13	551	Vol. II - MSI-Scope_of_Work_Part-5,UC-VCST-1.230	The unit should be supplied with 2 x automatic voice tracking 1080p 60fps camera, 3 x Microphones, codec automatic voice tracking cameras, and a touch panel	The unit should be supplied with 2 x automatic voice tracking 1080p 60fps camera or with pre-set setting, 2 or more Microphones, automatic voice tracking or pre-set cameras and a touch panel or other smart devices controller.
14	553	Vol. II - MSI-Scope_of_Work_Part-5,UC- VC70D-1.258	The video endpoint should be an OEM integrated solution with a dual 70" LCD or above with edge lit LED, integrated 1080p codec within the dual 70" display, dual 1080p60fps automatic voice tracking cameras, Integrated full-range multichannel and bass speakers with 400W amplifier system, 10" touch panel, 8 Microphones, with free standing pedestal kit. The part number and product information for the solution should be available on the OEM's website	The video endpoint should be an OEM integrated solution with a dual 70" LCD or above with edge lit LED, integrated 1080p codec within the dual 70" display, dual 1080p 60fps automatic voice tracking/pre-set cameras, Integrated full-range multichannel and bass speakers with 400W amplifier system, 10" touch panel, 8 Microphones, with free standing pedestal kit.
15	562	Vol. II - MSI-Scope_of_Work_Part-5,UC-UCM-1.56	Call-Server should provide a common control agent for signalling, configuration, and serviceability for voice or video end points.	Call server/collaboration solution should provide control agents for signalling, configuration and serviceability for voice/video end points.
16	563	Vol. II - MSI-Scope_of_Work_Part-5,UC-UCM-1.69	Intercluster scalability to 100+ sites or clusters through H.323 gatekeeper	Solution should have scalability to 100+ sites through gateway
17	564	Vol. II - MSI-Scope_of_Work_Part-5,UC-UCM-1.85	Cluster wide trace setting tool.	Should have the facility to monitor device status, trace, monitor Remote access service, registration messages, etc.
18	564	Vol. II - MSI-Scope_of_Work_Part-5,UC-UCM-1.92	Call-Server should have the infrastructure to handle codec and video capabilities of the endpoints, bandwidth negotiation to determine if video/audio call can take place, single point of administration, management of media devices such as gateways and MCUs.	Call-Server/Collaboration solution should have the infrastructure to handle codec and video capabilities of the endpoints, bandwidth negotiation to determine if video/audio call can take place, single point of administration, management of media devices such as gateways and MCUs.
19	566	Vol. II - MSI-Scope_of_Work_Part-5,UC-UCM-1.130	Should be an integrated system with at least 22 to 24 inch LCD/TFT screen, 1080P resolution (16:9), HD camera and with speakers for wide band audio output. The Codec should be a part of the unit. No separate Codec's are preferred. The LCD/TFT screen should be a touch screen to provide a touch interface to the user.	Should be an integrated system with at least 23 and above size LCD/TFT screen, 1080P resolution (16:9), HD camera and with speakers for wide band audio output. The Codec should be a part of the unit. No separate Codec's are preferred. The LCD/TFT screen should be a touch/non-touch screen to provide an easier interface to the user through remote control/PC/Laptop keyboards.

REQUEST FOR QUALIFICATION (RFQ) CUM REQUEST FOR PROPOSAL (RFP) FOR APPOINTMENT OF MASTER SYSTEM INTEGRATOR FOR DESIGN, SUPPLY, INSTALL, TEST, INTEGRATE, COMMISSIONING, OPERATION AND MAINTENANCE OF ICT COMPONENTS IN CLUSTER A1 OF ACTIVATION AREA

20	566	Vol._II_-_MSI-Scope_of_Work_Part-5,UC-UCM-1.145	Audio System: The system should have two stereo front speakers with inbuilt microphones, wideband speakers.	Audio System: The system should have two stereo front speakers with inbuilt/external microphones, wideband speakers.
21	568	Vol._II_-_MSI-Scope_of_Work_Part-5,UC-UCM-1.171	The system should be an integrated system with Codec, HD 1080p camera with automatic speaker tracking cameras total zoom or higher, Mic, remote control, cables and power supply, 55" LCD/LED and a floor mount kit. The 55" screen, codec, camera, microphones, floor cum wall mounted kit should be from same OEM with a single OEM part code. The system should not be a locally fabricated unit.	The system should be an integrated system, HD 1080p camera with automatic speaker tracking cameras or with pre-set setting, total zoom or higher, Mic, remote control, cables and power supply, 55" LCD/LED and a floor mount kit. The system should not be a locally fabricated unit.
22	568	Vol._II_-_MSI-Scope_of_Work_Part-5,UC-UCM-1.179	The system should have integrated 55" Monitor. Additionally, the unit must have a HDMI/DVI output to connect and additional display to function as a dual monitor.	The system should have 55" Monitor. Additionally, the unit must have a HDMI/DVI output to connect and additional display to function as a dual monitor.
23	569	Vol._II_-_MSI-Scope_of_Work_Part-5,UC-UCM-1.199	1080p60 with automatic speaker tracking cameras	1080p60 with automatic speaker tracking cameras or with pre-set settings
24	571	Vol._II_-_MSI-Scope_of_Work_Part-5,UC-UCM-1.242	Print Chat: The user should have the ability to print a conversation with a right-click from a chat window with another user or by pressing CTRL + P. the user can also highlight a portion of the text to print it.	Print Chat: The user should have the ability to print a conversation from a chat window
25	572	Vol._II_-_MSI-Scope_of_Work_Part-5,UC-UCM-1.250	Screen Capture: UC Client must support screen capture allows a user to capture an area of their screen into an image and then send the image as part of an IM conversation. The image is automatically shown at the far end.	Screen Sharing: UC Client must support screen sharing feature and allows a user to share their screen and then send the image/document as part of an IM conversation.
26	572	Vol._II_-_MSI-Scope_of_Work_Part-5,UC-UCM-1.251	Screen share and Remote Desktop Sharing in Group Chat (1: Many): Users must have the capability to share screen with up to 5 people in group chat session using the IM-Only-desktop-sharing feature.	Screen share and Remote Desktop Sharing in Group Collaboration (1: Many): Users must have the capability to share screen with up to 5 people in group collaboration session. Should be able to start the collaboration session from UC client itself.
27	34	Addendum - 2	IPv6 Ready logo awarded (IPv6 Logo Committee certified)	IPv6 Ready / IPv6 logo awarded (IPv6 Logo Committee certified)
28	34	Addendum - 2	8 IEEE 802.3af and IEEE 802.3at PoE+ standard ports • 36-watt output per PoE+ port in high-power mode (PoE power management functions)	8 IEEE 802.3af and IEEE 802.3at PoE+ standard ports

REQUEST FOR QUALIFICATION (RFQ) CUM REQUEST FOR PROPOSAL (RFP) FOR APPOINTMENT OF MASTER SYSTEM INTEGRATOR FOR DESIGN, SUPPLY, INSTALL, TEST, INTEGRATE, COMMISSIONING, OPERATION AND MAINTENANCE OF ICT COMPONENTS IN CLUSTER A1 OF ACTIVATION AREA

29	34	Addendum - 2	Ethernet/IP, PROFINET, and Modbus/TCP protocols for device management and monitoring	Ethernet/IP/PROFINET and Modbus/TCP protocols for device management and monitoring
30	34	Addendum - 2	Should have Ring support with 200 switches in One Single Ring and have recovery time of <30ms.	Should support ring redundancy protocol with recover time of <50ms.
31	35	Addendum - 2	Line-swap fast recovery	Line-swap fast recovery/RSTP/ERP
32	35	Addendum - 2	Configurable by web browser, USB-serial console	Configurable by web browser, USB-serial console, RJ45 connector
33	35	Addendum - 2	Server/Client, DHCP Option 66/67/82, BootP, TFTP, SNMP, SMTP,	Server/Client, DHCP Option 66/67/82, BootP, TFTP, SNMP, SMTP/SNMP
34	35	Addendum - 2	PROFINET, Modbus/TCP, SNMP Inform, LLDP, IEEE 1588, IPv6, NTP	PROFINET/Ethernet, Modbus/TCP, SNMP Inform, LLDP, IEEE 1588, IPv6, NTP
35	36	Addendum - 2	Jumbo Frame Size: 9.6 KB	Jumbo Frame size of 9k and above should be supported
36	36	Addendum - 2	VLAN ID Range VID 1 to 4094	VLAN ID Range VID 1 to 4000 and above
37	36	Addendum - 2	LED Indicators: PWR1, PWR2, FAULT, STATE, 10/100/1000M, MSTR/ HEAD, CPLR/TAIL	LED indicators for various parameters should be available on the switches (viz. Power, Alarm/Fault, etc.)
38	36	Addendum - 2	Digital Inputs: Digital Inputs: 1 input with the same ground, but electrically isolated from the electronics. • +13 to +30 V for state "1" • -30 to +3 V for state "0" • Max. input current: 8 mA	Inputs through various components like relays, I/O ports, etc. should be supported
39	36	Addendum - 2	Button: Reset button	Factory/Default reset functionality should be available through console/remote access
40	37	Addendum - 2	Shock: IEC 60068-2-27	Mechanical shock standards should be complied with (Viz. IEC 60068-2-27/IEC 60255-21-2)
41	37	Addendum - 2	Freefall: IEC 60068-2-32	Should comply with electrical standards IEC 60068-2-30/31/32
42	37	Addendum - 2	Vibration: IEC 60068-2-6	Vibration shock standards should be complied (Viz. IEC 60068-2-6/IEC 60255-21-1/IEC 60068-2-64)
43	34	Addendum - 2	Advanced PoE management function like (PoE port setting, PD failure check, and PoE scheduling)	Should support PoE management functions like PoE available budget, PoE power setting, PoE port setting, etc.
44	35	Addendum - 2	Automatic warning by exception through email, relay output	Automatic warning by exception through email/relay output
45	35	Addendum - 2	System backup and restoration tool to enhance maintenance efficiency and reduce system downtime	The said functionality stands deleted

REQUEST FOR QUALIFICATION (RFQ) CUM REQUEST FOR PROPOSAL (RFP) FOR APPOINTMENT OF MASTER SYSTEM INTEGRATOR FOR DESIGN, SUPPLY, INSTALL, TEST, INTEGRATE, COMMISSIONING, OPERATION AND MAINTENANCE OF ICT COMPONENTS IN CLUSTER A1 OF ACTIVATION AREA

46	35	Addendum - 2	Command Line Interface (CLI) for quickly configuring major managed functions: More than 200 command lines	Command Line Interface (CLI) for quickly configuring major managed functions
47	34	Addendum - 2	Bandwidth management prevents unpredictable network status	QoS based policy for bandwidth management
48	545	Vol. II, UC-VCD-1.126	The unit must support layout control for video and presentation on a single LCD screen	The unit must support layout control for video and presentation on a single LCD / LED screen
49	532	Vol. II, CIOC-Unified Communications	Additional Clause	MSI needs to provision 40 audio and 23 audio-video licenses for IP phones/IPBX.