



DIRECTORATE GENERAL OF HYDROCARBONS

(Ministry of Petroleum & Natural Gas)

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CORRIGENDUM NO. 1

In respect of GeM E-Tender No. GeM/2021/B/1192779 for “Procurement of IT hardware”, amendment to tender clauses and replies of queries raised by the bidders are attached at Annexure-I and II respectively.

Addendum/ Corrigendum / Bid Due Date Extensions, if any, to the Bid Document shall be uploaded on DGH’s website www.dghindia.gov.in and National e-Procurement Portal <http://gem.gov.in> . Hence, bidders are advised to visit the said websites regularly.

HOD (MM)

For Directorate General of Hydrocarbons

Amendment to tender clauses of bid document [Tender No: GEM/2021/B/1192779]

Tender Sl. No. reference	Item	Description	Original Specification/ clause	Amended Clause
4	Encoder	Video Standards and Resolutions	It should support interoperability and bandwidth saving using video compression H.264 AVC, H.264 High Profile, H.265	Clause Modified as: It should support interoperability and bandwidth saving using video compression H.264 AVC/ H.264 High Profile/ H.265
5		Content Standards and Resolutions	It should support inbuilt feature for wireless content sharing using Airplay and Miracast technology without downloading any application on the user device.	Clause deleted
5		Content Standards and Resolutions	It should support Content Annotation and White boarding capability when connected to Touch Display.	Clause deleted
6		Audio Standards and Features	It should support G.711, G.728, G.729A, G.722, G.722.1, G.719 or better	Clause Modified as: It should support G.711, G.729A, G.722, G.722.1 or better
6		Audio Standards and Features	Keyboard Noise Reduction and Noise Block	Clause modified as: Keyboard Noise Reduction or Noise Block
7		Video and Audio Inputs	2 x USB input to connect additional USB based PTZ camera from same OEM to capture whiteboard and lecturer/presenter	Clause modified as: 1 x /HDMI/ USB input to connect additional USB/HDMI based PTZ camera from same OEM
7		Video and Audio Inputs	1 x RCA/3.5mm stereo line-in	Clause modified as: 1 x RCA/3.5mm/ HDMI stereo line-in
8		Video and Audio Outputs	2 x USB for connecting to two touch display	Clause deleted
9		Other Interfaces	1 x USB to support system software upgrade	Clause modified as: 1 x USB/ Web Interface to support system software upgrade
9		Other Interfaces	Bluetooth 5.0 and WiFi 802.11a/b/g/n/ac (MIMO) for Wireless Content Sharing for Guests using their Smartphones and Tablets (Android and iOS)	Clause modified as: WiFi 802.11a/b/g/n/ac (MIMO) for Wireless Content Sharing for Guests using their Smartphones and Tablets (Android and iOS)
9		Other Interfaces	1 x RS-232 Serial Port or equivalent port for connecting to external RS-232 controller	Clause deleted
10		Camera	The camera should support minimum 10X Optical Zoom, PAN +/-100°, Tilt +20/-30° & minimum 10 camera presets.	Clause modified as: The camera should support minimum 10X Optical Zoom, PAN +/-100°, Tilt +20/-20° & minimum 10 camera presets.
13		Security	Media Encryption (H.323, SIP): AES-128, AES-256, H.235.6 support	Clause Modified as: Media Encryption (H.323, SIP): AES-128, H.235.6 support

Amendment to tender clauses of bid document [Tender No: GEM/2021/B/1192779]

Tender Sl. No. reference	Item	Description	Original Specification/ clause	Amended Clause
4	MCU	MCU Features	The MCU must support 20 layouts or more	Clause Modified as ; It must be possible to see at least 20 sites simultaneously on the screen. The end points must have the capability to change their local video layout from remote control. The MCU must support 8 layouts or more.
5		Gatekeeper	Gatekeeper: This must be a dedicated, physically separate server to avoid a single point of failure	Clause Modified as: The solution must have native support for H.323 & SIP with the ability of 100 devices registration for H.323 gatekeeper and SIP registrar from day one and should be scalable to 400 device registration in future on the same server through software licenses. The number of concurrent calls supported must be 96 from day one and be scalable to 200 on the same server through software license. This must be a dedicated, physically separate server or virtualized server to avoid a single point of failure.
6		Device Management	Device Management: This must be a dedicated, physically separate server to avoid a single point of failure	Clause Modified as: The solution must include a management, scheduling and provisioning component(s) with capacity of at least 100 devices from day one and should be scalable to 400 devices in future on the same server through software licenses. The management system should support provisioning, bandwidth & device management/software upgrade and scheduling of 3rd party video endpoints in addition to the video endpoints of the OEM of the management server. This must be a dedicated, physically separate server or virtualized server to avoid a single point of failure.
7		Firewall Traversal	Firewall Traversal : This must be a dedicated, physically separate server to avoid a single point of failure	The solution must include a firewall traversal component for SIP & H.323 video endpoints. It must support at least 96 calls from day one. Single server application that combines remote and B2B calling scenarios with SIP and H.323 (AVC/SVC) capabilities for a seamless video collaboration experience within and beyond the firewall. This must be a dedicated physically separate server or virtualized server to avoid a single point of failure.
10		Protocols	The solution must support H.261, H.263, H.264 AVC, H.264 SVC, H.264 High Profile	Clause Modified as: The solution must support H.263, H.264 AVC
11		Security	The solution must support encryption on H.323 and SIP (AES-128 and AES-256), SSL, TL	Clause Modified as: The solution must support encryption on H.323 and SIP (AES-128), SSL, TL
10		Protocols	The MCU must support Lecture Mode, Presentation Mode and Far End Camera Control.	Clause Modified as ; The MCU must support Lecture Mode/Presentation Mode and Far End Camera Control.

Amendment to tender clauses of bid document [Tender No: GEM/2021/B/1192779]

Tender Sl. No. reference	Item	Description	Original Specification/ clause	Amended Clause
	PERSONAL VIDEO CONFERENCING SYSTEM FOR EXECUTIVES		Should be an integrated system with at least 21 to 27 inch LCD/TFT screen, 4K Screen resolution, 4K 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 LED screen should be a touch screen to provide a Multi touch interface to the user.	Clause Modified as: Should be complete system with at least 21 to 27 inch or higher integrated or third-party LED/LCD/TFT screen, 4K Screen resolution, 4K camera and with speaker for high quality audio output. The Codec, Camera, Microphones and Speaker should be an integrated unit. The LED/ LCD/ TFT screen should be a touch enabled screen to provide a Multi touch interface to the user.
4		Video Input	Should have HDMI input to connect PC/ Laptop directly to the Unit. Must have a USB C input to connect Laptop and use the display as a dual monitor. Must support 4K resolutions.	Clause Modified as: Should have HDMI input to connect PC/ Laptop directly to the Unit. The LED/LCD/TFT Screen must have a HDMI/USB C input to connect Laptop and use the display as a dual monitor. Must support 4K resolutions.
			The user must be able to toggle between the Laptop/PC mode and the Video conferencing mode at a push of button/icon.	Clause Modified as: The user must be able to toggle between the Laptop/PC mode and the Video conferencing mode at a push of button/icon in the display.
6		Audio	Audio System: The system should have two stereo front speakers with inbuilt microphones, wideband speakers.	Clause Modified as: Audio System: The system should have one or more front speakers with inbuilt microphones and speaker to support high quality audio.
			G.722, G.711, MPEG 4 AAC or better - which supports 20 KHz audio must be supported	Clause Modified as: G.722, G.711, G.719 / MPEG 4 AAC or better - which supports 20 KHz audio must be supported
7		Other Features	Noise Reduction/Echo Cancellation, Automatic Gain control, Automatic Audio mixer. Must have Noise Cancellation to remove background noise such as air conditioning	Clause Modified as: Noise Reduction/Echo Cancellation, Automatic Gain control. Must have Noise Cancellation to remove background noise such as air conditioning.
8		LAN	1 x LAN /Ethernet--10/100/1000 to connect a PC (i.e. built in switch)	Clause deleted
10		Data Collaboration	At least 2 USB ports so that the Camera, microphone and speakers of the units can be used with any SW client on the laptop connected to the device.	Clause Modified as: Should have USB port so that the camera, microphones and speaker of the unit can be used with any SW client on the laptop connected to the device.
			Touch-redirect so that the touch screen itself can be used to advance presentation slides or do annotations over presentation instead of mouse or keyboard.	Clause deleted
9		Security	Meetings both point and point and multipoint, should be password protected and the same should be possible for SIP networks	Clause deleted
			The unit must support the option of disabling the secondary network port if not in use.	Clause deleted
10		Camera	50 degrees vertical field of view	Clause deleted
-	Professional Large Format Display (BOTH SIZE)	Native Contrast Ratio (Minimum)	40001	Clause Modified as: 4000:1

Reply of bidder's queries (Ref: Bid Number: GEM/2021/B/1192779)

Vendor	CISCO			
ITEM	ENCODER			
Tender Sl. No. reference	Description	Original Specification	Queries raised / Changes Proposed by the bidder	DGH Response/ Remarks
4	Video Standards and Resolutions	It should support interoperability and bandwidth saving using video compression H.264 AVC, H.264 High Profile, H.265	It should support interoperability and bandwidth saving using video compression H.264 AVC/ H.264 High Profile/ H.265	Clause Modified as: It should support interoperability and bandwidth saving using video compression H.264 AVC/ H.264 High Profile/ H.265
5	Content Standards and Resolutions	It should support inbuilt feature for wireless content sharing using Airplay and Miracast technology without downloading any application on the user device.	To be deleted	Clause deleted
5	Content Standards and Resolutions	It should support Content Annotation and White boarding capability when connected to Touch Display.	To be deleted	Clause deleted
6	Audio Standards and Features	It should support G.711, G.728, G.729A, G.722, G.722.1, G.719 or better	Delete G.728. G.719	Clause Modified as: It should support G.711, G.729A, G.722, G.722.1 or better
6	Audio Standards and Features	Keyboard Noise Reduction and Noise Block	Keyboard Noise Reduction or Noise Block	Clause modified as: Keyboard Noise Reduction or Noise Block
7	Video and Audio Inputs	2 x USB input to connect additional USB based PTZ camera from same OEM to capture whiteboard and lecturer/presenter	1 x /HDMI/ USB input to connect additional USB/HDMI based PTZ camera from same OEM	Clause modified as: 1 x /HDMI/ USB input to connect additional USB/HDMI based PTZ camera from same OEM
7	Video and Audio Inputs	1 x RCA/3.5mm stereo line-in	1 x RCA/3.5mm/ HDMI stereo line-in	Clause modified as: 1 x RCA/3.5mm/ HDMI stereo line-in
8	Video and Audio Outputs	2 x USB for connecting to two touch display	To be deleted	Clause deleted
9	Other Interfaces	1 x USB to support system software upgrade	1 x USB/ Web Interface to support system software upgrade	Clause modified as: 1 x USB/ Web Interface to support system software upgrade
9	Other Interfaces	Bluetooth 5.0 and WiFi 802.11a/b/g/n/ac (MIMO) for Wireless Content Sharing for Guests using their Smartphones and Tablets (Android and iOS)	WiFi 802.11a/b/g/n/ac (MIMO) for Wireless Content Sharing for Guests using their Smartphones and Tablets (Android and iOS)	Clause modified as: WiFi 802.11a/b/g/n/ac (MIMO) for Wireless Content Sharing for Guests using their Smartphones and Tablets (Android and iOS)
9	Other Interfaces	1 x RS-232 Serial Port or equivalent port for connecting to external RS-232 controller	To be deleted	Clause deleted
10	Camera	The camera should support minimum 10X Optical Zoom, PAN +/- 100°, Tilt +20/-30° & minimum 10 camera presets.	The camera should support minimum 10X Optical Zoom, PAN +/- 100°, Tilt +20/-20° & minimum 10 camera presets.	Clause modified as: The camera should support minimum 10X Optical Zoom, PAN +/- 100°, Tilt +20/-20° & minimum 10 camera presets.
13	Security	Media Encryption (H.323, SIP): AES-128, AES-256, H.235.6 support	Delete AES-256 and H.236.6 Support	Clause Modified as: Media Encryption (H.323, SIP): AES-128, H.235.6 support

Reply of bidder's queries (Ref: Bid Number: GEM/2021/B/1192779)				
Vendor	CISCO			
ITEM	MCU			
Tender Sl. No. reference	Description	Original Specification	Queries raised / Changes Proposed by the bidder	DGH Response/ Remarks
4	MCU Features	The MCU must support 20 layouts or more	The MCU must support 8 layouts or more	Clause Modified as ; It must be possible to see at least 20 sites simultaneously on the screen. The end points must have the capability to change their local video layout from remote control. The MCU must support 8 layouts or more.
5	Gatekeeper	Gatekeeper: This must be a dedicated, physically separate server to avoid a single point of failure	Gatekeeper: This must be a dedicated, physically separate server or Virtualised Servers to avoid a single point of failure	Clause Modified as: The solution must have native support for H.323 & SIP with the ability of 100 devices registration for H.323 gatekeeper and SIP registrar from day one and should be scalable to 400 device registration in future on the same server through software licenses. The number of concurrent calls supported must be 96 from day one and be scalable to 200 on the same server through software license. This must be a dedicated, physically separate server or virtualized server to avoid a single point of failure.
6	Device Management	Device Management: This must be a dedicated, physically separate server to avoid a single point of failure	Device Management: This must be a dedicated, physically separate server or Virtualised Servers to avoid a single point of failure	Clause Modified as: The solution must include a management, scheduling and provisioning component(s) with capacity of at least 100 devices from day one and should be scalable to 400 devices in future on the same server through software licenses. The management system should support provisioning, bandwidth & device management/software upgrade and scheduling of 3rd party video endpoints in addition to the video endpoints of the OEM of the management server. This must be a dedicated, physically separate server or virtualized server to avoid a single point of failure.
7	Firewall Traversal	Firewall Traversal : This must be a dedicated, physically separate server to avoid a single point of failure	Firewall Traversal: This must be a dedicated, physically separate server or Virtualised Servers to avoid a single point of failure	The solution must include a firewall traversal component for SIP & H.323 video endpoints. It must support at least 96 calls from day one. Single server application that combines remote and B2B calling scenarios with SIP and H.323 (AVC/SVC) capabilities for a seamless video collaboration experience within and beyond the firewall. This must be a dedicated physically separate server or virtualized server to avoid a single point of failure.
10	Protocols	The solution must support H.261, H.263, H.264 AVC, H.264 SVC, H.264 High Profile	The solution must support H.263, H.264 AVC,	Clause Modified as: The solution must support H.263, H.264 AVC
11	Security	The solution must support encryption on H.323 and SIP (AES-128 and AES-256), SSL, TL	The solution must support encryption on H.323 and SIP (AES-128), SSL, TL	Clause Modified as: The solution must support encryption on H.323 and SIP (AES-128), SSL, TL
10	Protocols	The MCU must support Lecture Mode, Presentation Mode and Far End Camera Control.	The MCU must support Lecture Mode/ Important/ Presentation Mode and Far End Camera Control.	Clause Modified as ; The MCU must support Lecture Mode/Presentation Mode and Far End Camera Control.

Reply of bidder's queries (Ref: Bid Number: GEM/2021/B/1192779)				
Vendor	POLYCOM			
ITEM	PERSONAL VIDEO CONFERENCING SYSTEM FOR EXECUTIVES			
Tender Sl. No. reference	Description	Original Specification	Queries raised / Changes Proposed by the bidder	DGH Response/ Remarks
		Should be an integrated system with at least 21 to 27 inch LCD/TFT screen, 4K Screen resolution, 4K 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 LED screen should be a touch screen to provide a Multi touch interface to the user.	Should be complete system with at least 21 to 27 inch or higher integrated or third-party LED/LCD/TFT screen, 4K Screen resolution, 4K camera and with speaker for high quality audio output. The Codec, Camera, Microphones and Speaker should be an integrated unit. The LED/LCD/TFT screen should be a touch enabled screen to provide a Multi touch interface to the user.	Clause Modified as: Should be complete system with at least 21 to 27 inch or higher integrated or third-party LED/LCD/TFT screen, 4K Screen resolution, 4K camera and with speaker for high quality audio output. The Codec, Camera, Microphones and Speaker should be an integrated unit. The LED/LCD/TFT screen should be a touch enabled screen to provide a Multi touch interface to the user.
4	Video Input	Should have HDMI input to connect PC/ Laptop directly to the Unit. Must have a USB C input to connect Laptop and use the display as a dual monitor. Must support 4K resolutions.	Should have HDMI input to connect PC/ Laptop directly to the Unit. The LED/LCD/TFT Screen must have a HDMI/USB C input to connect Laptop and use the display as a dual monitor. Must support 4K resolutions.	Clause Modified as: Should have HDMI input to connect PC/ Laptop directly to the Unit. The LED/LCD/TFT Screen must have a HDMI/USB C input to connect Laptop and use the display as a dual monitor. Must support 4K resolutions.
		The user must be able to toggle between the Laptop/PC mode and the Video conferencing mode at a push of button/icon.	The user must be able to toggle between the Laptop/PC mode and the Video conferencing mode at a push of button/icon in the display.	Clause Modified as: The user must be able to toggle between the Laptop/PC mode and the Video conferencing mode at a push of button/icon in the display.
6	Audio	Audio System: The system should have two stereo front speakers with inbuilt microphones, wideband speakers.	Audio System: The system should have one or more front speakers with inbuilt microphones and speaker to support high quality audio.	Clause Modified as: Audio System: The system should have one or more front speakers with inbuilt microphones and speaker to support high quality audio.
		G.722, G.711, MPEG 4 AAC or better - which supports 20 KHz audio must be supported	G.722, G.711, G.719 / MPEG 4 AAC or better - which supports 20 KHz audio must be supported	Clause Modified as: G.722, G.711, G.719 / MPEG 4 AAC or better - which supports 20 KHz audio must be supported
7	Other Features	Noise Reduction/Echo Cancellation, Automatic Gain control, Automatic Audio mixer. Must have Noise Cancellation to remove background noise such as air conditioning	Noise Reduction/Echo Cancellation, Automatic Gain control. Must have Noise Cancellation to remove background noise such as air conditioning.	Clause Modified as: Noise Reduction/Echo Cancellation, Automatic Gain control. Must have Noise Cancellation to remove background noise such as air conditioning.
8	LAN	1 x LAN /Ethernet--10/100/1000 to connect a PC (i.e. built in switch)	Request to delete the clause.	Clause deleted
10	Data Collaboration	At least 2 USB ports so that the Camera, microphone and speakers of the units can be used with any SW client on the laptop connected to the device.	Should have USB port so that the camera, microphones and speaker of the unit can be used with any SW client on the laptop connected to the device.	Clause Modified as: Should have USB port so that the camera, microphones and speaker of the unit can be used with any SW client on the laptop connected to the device.
		Touch-redirect so that the touch screen itself can be used to advance presentation slides or do annotations over presentation instead of mouse or keyboard.	Request to delete the clause.	Clause deleted
9	Security	Meetings both point and point and multipoint, should be password protected and the same should be possible for SIP networks	Request to delete the clause.	Clause deleted
		The unit must support the option of disabling the secondary network port if not in use.	Request to delete the clause.	Clause deleted
10	Camera	50 degrees vertical field of view	Request to delete the clause.	Clause deleted

Reply of bidder's queries (Ref: Bid Number: GEM/2021/B/1192779)

Vendor	GURUSONS			
ITEM	PERSONAL VIDEO CONFERENCING SYSTEM FOR EXECUTIVES			
Tender Sl. No. reference	Description	Original Specification	Queries raised / Changes Proposed by the bidder	DGH Response/ Remarks
		Should be an integrated system with at least 21 to 27 inch LCD/TFT screen, 4K Screen resolution, 4K 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 LED screen should be a touch screen to provide a Multi touch interface to the user.	Should be complete system with at least 21 to 27 inch or higher integrated or third-party LED/LCD/TFT screen, 4K Screen resolution, 4K camera and with speaker for high quality audio output. The Codec, Camera, Microphones and Speaker should be an integrated unit. The LED/LCD/TFT screen should be a touch enabled screen to provide a Multi touch interface to the user.	Clause Modified as: Should be complete system with at least 21 to 27 inch or higher integrated or third-party LED/LCD/TFT screen, 4K Screen resolution, 4K camera and with speaker for high quality audio output. The Codec, Camera, Microphones and Speaker should be an integrated unit. The LED/LCD/TFT screen should be a touch enabled screen to provide a Multi touch interface to the user.
4	Video Input	Should have HDMI input to connect PC/ Laptop directly to the Unit. Must have a USB C input to connect Laptop and use the display as a dual monitor. Must support 4K resolutions. The user must be able to toggle between the Laptop/PC mode and the Video conferencing mode at a push of button/icon.	Should have HDMI input to connect PC/ Laptop directly to the Unit. The LED/LCD/TFT Screen must have a HDMI/USB C input to connect Laptop and use the display as a dual monitor. Must support 4K resolutions. The user must be able to toggle between the Laptop/PC mode and the Video conferencing mode at a push of button/icon in the display.	Clause Modified as: Should have HDMI input to connect PC/ Laptop directly to the Unit. The LED/LCD/TFT Screen must have a HDMI/USB C input to connect Laptop and use the display as a dual monitor. Must support 4K resolutions. Clause Modified as: The user must be able to toggle between the Laptop/PC mode and the Video conferencing mode at a push of button/icon in the display.
6	Audio	Audio System: The system should have two stereo front speakers with inbuilt microphones, wideband speakers. G.722, G.711, MPEG 4 AAC or better - which supports 20 KHz audio must be supported	Audio System: The system should have one or more front speakers with inbuilt microphones and speaker to support high quality audio. G.722, G.711, G.719 / MPEG 4 AAC or better - which supports 20 KHz audio must be supported	Clause Modified as: Audio System: The system should have one or more front speakers with inbuilt microphones and speaker to support high quality audio. Clause Modified as: G.722, G.711, G.719 / MPEG 4 AAC or better - which supports 20 KHz audio must be supported
7	Other Features	Noise Reduction/Echo Cancellation, Automatic Gain control, Automatic Audio mixer. Must have Noise Cancellation to remove background noise such as air conditioning	Noise Reduction/Echo Cancellation, Automatic Gain control. Must have Noise Cancellation to remove background noise such as air conditioning.	Clause Modified as: Noise Reduction/Echo Cancellation, Automatic Gain control. Must have Noise Cancellation to remove background noise such as air conditioning.
8	LAN	1 x LAN /Ethernet--10/100/1000 to connect a PC (i.e. built in switch)	Request to delete the clause.	Clause deleted
10	Data Collaboration	At least 2 USB ports so that the Camera, microphone and speakers of the units can be used with any SW client on the laptop connected to the device. Touch-redirect so that the touch screen itself can be used to advance presentation slides or do annotations over presentation instead of mouse or keyboard.	Should have USB port so that the camera, microphones and speaker of the unit can be used with any SW client on the laptop connected to the device. Request to delete the clause.	Clause Modified as: Should have USB port so that the camera, microphones and speaker of the unit can be used with any SW client on the laptop connected to the device. Clause deleted
9	Security	Meetings both point and point and multipoint, should be password protected and the same should be possible for SIP networks The unit must support the option of disabling the secondary network port if not in use.	Request to delete the clause. Request to delete the clause.	Clause deleted Clause deleted
10	Camera	50 degrees vertical field of view	Request to delete the clause.	Clause deleted

Reply of bidder's queries (Ref: Bid Number: GEM/2021/B/1192779)				
Vendor	GURUSONS			
ITEM	DISPLAY			
Tender Sl. No. reference	Description	Original Specification	Changes Proposed by the bidder	DGH Response/ Remarks
1	Brightness (Nits) Minimum	500, 600, 700, 1000, 1500, 2500, 3000, 4000, 550 Or higher	300, 500, 600, 700, 1000, 1500, 2500, 3000, 4000, 550 Or higher	No Change : to be governed by Tender terms only.
2	Native Contrast Ratio (Minimum)	4000:1	Change it to 1200:1	Clause Modified as: 4000:1
ITEM	TV TROLLEY			
Tender Sl. No. reference	Description	Original Specification	Queries raised / Changes Proposed by the bidder	DGH Response/ Remarks
1	Material of the stand	Stand should be made up of heavy duty CRC metal frame embedded with approximately 19 mm thick wooden board and laminated with composite Panel	Stand should be made up of heavy-duty PU Coated HDF board of	No Change : to be governed by Tender terms only.
2	Approximate Measurements	Base dimensions (Width Left to Right) 805mm x (Depth) 535mm x (Height) 150 mm. Vertical Panel Dimensions (Height) 1400 mm x (Width Left to Right) 450 mm x (Depth) 75mm (Dimensions are approximate and vendor may suggest measurments as per room requirements)	Base dimensions (Width Left to Right) 1200mm x (Depth) 600mm x (Height) 150 mm. Vertical Panel Dimensions (Height) 1400 mm x (Width Left to Right) 800 mm (Dimensions are approximate and vendor may suggest measurements as per room requirements)	No Change : to be governed by Tender terms only.

Reply of bidder's queries (Ref: Bid Number: GEM/2021/B/1192779)

Vendor	Electronic Junction			
ITEM	PERSONAL VIDEO CONFERRING SYSTEM FOR EXECUTIVES			
Tender Sl. No. reference	Description	Original Specification	Queries raised / Changes Proposed by the bidder	DGH Response/ Remarks
		Should be an integrated system with at least 21 to 27 inch LCD/TFT screen, 4K Screen resolution, 4K 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 LED screen should be a touch screen to provide a Multi touch interface to the user.	Should be complete system with at least 21 to 27 inch or higher integrated or third-party LED/LCD/TFT screen, 4K Screen resolution, 4K camera and with speaker for high quality audio output. The Codec, Camera, Microphones and Speaker should be an integrated unit. The LED/LCD/TFT screen should be a touch enabled screen to provide a Multi touch interface to the user.	Clause Modified as: Should be complete system with at least 21 to 27 inch or higher integrated or third-party LED/LCD/TFT screen, 4K Screen resolution, 4K camera and with speaker for high quality audio output. The Codec, Camera, Microphones and Speaker should be an integrated unit. The LED/LCD/TFT screen should be a touch enabled screen to provide a Multi touch interface to the user.
4	Video Input	Should have HDMI input to connect PC/ Laptop directly to the Unit. Must have a USB C input to connect Laptop and use the display as a dual monitor. Must support 4K resolutions.	Should have HDMI input to connect PC/ Laptop directly to the Unit. The LED/LCD/TFT Screen must have a HDMI/USB C input to connect Laptop and use the display as a dual monitor. Must support 4K resolutions.	Clause Modified as: Should have HDMI input to connect PC/ Laptop directly to the Unit. The LED/LCD/TFT Screen must have a HDMI/USB C input to connect Laptop and use the display as a dual monitor. Must support 4K resolutions.
		The user must be able to toggle between the Laptop/PC mode and the Video conferencing mode at a push of button/icon.	The user must be able to toggle between the Laptop/PC mode and the Video conferencing mode at a push of button/icon in the display.	Clause Modified as: The user must be able to toggle between the Laptop/PC mode and the Video conferencing mode at a push of button/icon in the display.
6	Audio	Audio System: The system should have two stereo front speakers with inbuilt microphones, wideband speakers.	Audio System: The system should have one or more front speakers with inbuilt microphones and speaker to support high quality audio.	Clause Modified as: Audio System: The system should have one or more front speakers with inbuilt microphones and speaker to support high quality audio.
		G.722, G.711, MPEG 4 AAC or better - which supports 20 KHz audio must be supported	G.722, G.711, G.719 / MPEG 4 AAC or better - which supports 20 KHz audio must be supported	Clause Modified as: G.722, G.711, G.719 / MPEG 4 AAC or better - which supports 20 KHz audio must be supported
7	Other Features	Noise Reduction/Echo Cancellation, Automatic Gain control, Automatic Audio mixer. Must have Noise Cancellation to remove background noise such as air conditioning	Noise Reduction/Echo Cancellation, Automatic Gain control. Must have Noise Cancellation to remove background noise such as air conditioning.	Clause Modified as: Noise Reduction/Echo Cancellation, Automatic Gain control. Must have Noise Cancellation to remove background noise such as air conditioning.
8	LAN	1 x LAN /Ethernet--10/100/1000 to connect a PC (i.e. built in switch)	Request to delete the clause.	Clause deleted
10	Data Collaboration	At least 2 USB ports so that the Camera, microphone and speakers of the units can be used with any SW client on the laptop connected to the device.	Should have USB port so that the camera, microphones and speaker of the unit can be used with any SW client on the laptop connected to the device.	Clause Modified as: Should have USB port so that the camera, microphones and speaker of the unit can be used with any SW client on the laptop connected to the device.
		Touch-redirect so that the touch screen itself can be used to advance presentation slides or do annotations over presentation instead of mouse or keyboard.	Request to delete the clause.	Clause deleted
9	Security	Meetings both point and point and multipoint, should be password protected and the same should be possible for SIP networks	Request to delete the clause.	Clause deleted
		The unit must support the option of disabling the secondary network port if not in use.	Request to delete the clause.	Clause deleted
10	Camera	50 degrees vertical field of view	Request to delete the clause.	Clause deleted

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Vendor	Electronic Junction			
ITEM	DISPLAY			
Tender Sl. No. reference	Description	Original Specification	Queries raised / Changes Proposed by the bidder	DGH Response/ Remarks
1	Brightness (Nits) Minimum	500, 600, 700, 1000, 1500, 2500, 3000, 4000, 550 Or higher	300, 500, 600, 700, 1000, 1500, 2500, 3000, 4000, 550 Or higher	No Change : to be governed by Tender terms only.
2	Native Contrast Ratio (Minimum)	4000:1	Change it to 1200:1	Clause Modified as: 4000:1
ITEM	TV TROLLEY			
Tender Sl. No. reference	Description	Original Specification	Queries raised / Changes Proposed by the bidder	DGH Response/ Remarks
1	Material of the stand	Stand should be made up of heavy duty CRC metal frame embedded with approximately 19 mm thick wooden board and laminated with composite Panel	Stand should be made up of heavy-duty PU Coated HDF board of	No Change : to be governed by Tender terms only.
2	Approximate Measurement	Base dimensions (Width Left to Right) 805mm x (Depth) 535mm x (Height) 150 mm. Vertical Panel Dimensions (Height) 1400 mm x (Width Left to Right) 450 mm x (Depth) 75mm (Dimensions are approximate and vendor may suggest measurements as per room requirements)	Base dimensions (Width Left to Right) 1200mm x (Depth) 600mm x (Height) 150 mm. Vertical Panel Dimensions (Height) 1400 mm x (Width Left to Right) 800 mm (Dimensions are approximate and vendor may suggest measurements as per room requirements)	No Change : to be governed by Tender terms only.

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Vendor	MADMAN TECHNOLOGIES			
ITEM	ENCODER			
Tender Sl. No. reference	Description	Original Specification	Queries raised / Changes Proposed by the bidder	DGH Response/ Remarks
4	Video Standards and Resolutions	It should support interoperability and bandwidth saving using video compression H.264 AVC, H.264 High Profile, H.265	It should support interoperability and bandwidth saving using video compression H.264 AVC/ H.264 High Profile/ H.265	Clause Modified as: It should support interoperability and bandwidth saving using video compression H.264 AVC/ H.264 High Profile/ H.265
5	Content Standards and Resolutions	It should support inbuilt feature for wireless content sharing using Airplay and Miracast technology without downloading any application on the user device.	To be deleted	Clause deleted
5	Content Standards and Resolutions	It should support Content Annotation and White boarding capability when connected to Touch Display.	To be deleted	Clause deleted
6	Audio Standards and Features	It should support G.711, G.728, G.729A, G.722, G.722.1, G.719 or better	Delete G.728. G.719	Clause Modified as: It should support G.711, G.729A, G.722, G.722.1 or better
6	Audio Standards and Features	Keyboard Noise Reduction and Noise Block	Keyboard Noise Reduction or Noise Block	Clause modified as: Keyboard Noise Reduction or Noise Block
7	Video and Audio Inputs	2 x USB input to connect additional USB based PTZ camera from same OEM to capture whiteboard and lecturer/presenter	1 x /HDMI/ USB input to connect additional USB/HDMI based PTZ camera from same OEM	Clause modified as: 1 x /HDMI/ USB input to connect additional USB/HDMI based PTZ camera from same OEM
7	Video and Audio Inputs	1 x RCA/3.5mm stereo line-in	1 x RCA/3.5mm/ HDMI stereo line-in	Clause modified as: 1 x RCA/3.5mm/ HDMI stereo line-in
8	Video and Audio Outputs	2 x USB for connecting to two touch display	To be deleted	Clause deleted
9	Other Interfaces	1 x USB to support system software upgrade	1 x USB/ Web Interface to support system software upgrade	Clause modified as: 1 x USB/ Web Interface to support system software upgrade
9	Other Interfaces	Bluetooth 5.0 and WiFi 802.11a/b/g/n/ac (MIMO) for Wireless Content Sharing for Guests using their Smartphones and Tablets (Android and iOS)	WiFi 802.11a/b/g/n/ac (MIMO) for Wireless Content Sharing for Guests using their Smartphones and Tablets (Android and iOS)	Clause modified as: WiFi 802.11a/b/g/n/ac (MIMO) for Wireless Content Sharing for Guests using their Smartphones and Tablets (Android and iOS)
9	Other Interfaces	1 x RS-232 Serial Port or equivalent port for connecting to external RS-232 controller	To be deleted	Clause deleted
10	Camera	The camera should support minimum 10X Optical Zoom, PAN +/- 100°, Tilt +20/-30° & minimum 10 camera presets.	The camera should support minimum 10X Optical Zoom, PAN +/- 100°, Tilt +20/-20° & minimum 10 camera presets.	Clause modified as: The camera should support minimum 10X Optical Zoom, PAN +/-100°, Tilt +20/-20° & minimum 10 camera presets.
13	Security	Media Encryption (H.323, SIP): AES-128, AES-256, H.235.6 support	Delete AES-256 and H.236.6 Support	Clause Modified as: Media Encryption (H.323, SIP): AES-128, H.235.6 support

Reply of bidder's queries (Ref: Bid Number: GEM/2021/B/1192779)				
Vendor	MADMAN TECHNOLOGIES			
ITEM	MCU			
Tender Sl. No. reference	Description	Original Specification	Queries raised / Changes Proposed by the bidder	DGH Response/ Remarks
4	MCU Features	The MCU must support 20 layouts or more	The MCU must support 8 layouts or more	Clause Modified as ; It must be possible to see at least 20 sites simultaneously on the screen. The end points must have the capability to change their local video layout from remote control. The MCU must support 8 layouts or more.
5	Gatekeeper	Gatekeeper: This must be a dedicated, physically separate server to avoid a single point of failure	Gatekeeper: This must be a dedicated, physically separate server or Virtualised Servers to avoid a single point of failure	Clause Modified as: The solution must have native support for H.323 & SIP with the ability of 100 devices registration for H.323 gatekeeper and SIP registrar from day one and should be scalable to 400 device registration in future on the same server through software licenses. The number of concurrent calls supported must be 96 from day one and be scalable to 200 on the same server through software license. This must be a dedicated, physically separate server or virtualized server to avoid a single point of failure.
6	Device Management	Device Management: This must be a dedicated, physically separate server to avoid a single point of failure	Device Management: This must be a dedicated, physically separate server or Virtualised Servers to avoid a single point of failure	Clause Modified as: The solution must include a management, scheduling and provisioning component(s) with capacity of at least 100 devices from day one and should be scalable to 400 devices in future on the same server through software licenses. The management system should support provisioning, bandwidth & device management/software upgrade and scheduling of 3rd party video endpoints in addition to the video endpoints of the OEM of the management server. This must be a dedicated, physically separate server or virtualized server to avoid a single point of failure.
7	Firewall Traversal	Firewall Traversal : This must be a dedicated, physically separate server to avoid a single point of failure	Firewall Traversal: This must be a dedicated, physically separate server or Virtualised Servers to avoid a single point of failure	The solution must include a firewall traversal component for SIP & H.323 video endpoints. It must support at least 96 calls from day one. Single server application that combines remote and B2B calling scenarios with SIP and H.323 (AVC/SVC) capabilities for a seamless video collaboration experience within and beyond the firewall. This must be a dedicated physically separate server or virtualized server to avoid a single point of failure.
10	Protocols	The solution must support H.261, H.263, H.264 AVC, H.264 SVC, H.264 High Profile	The solution must support H.263, H.264 AVC,	Clause Modified as: The solution must support H.263, H.264 AVC,
11	Security	The solution must support encryption on H.323 and SIP (AES-128 and AES-256), SSL, TL	The solution must support encryption on H.323 and SIP (AES-128), SSL, TL	Clause Modified as: The solution must support encryption on H.323 and SIP (AES-128), SSL, TL
10	Protocols	The MCU must support Lecture Mode, Presentation Mode and Far End Camera Control.	The MCU must support Lecture Mode/ Important/ Presentation Mode and Far End Camera Control.	Clause Modified as ; The MCU must support Lecture Mode/Presentation Mode and Far End Camera Control.

Reply of bidder's queries (Ref: Bid Number: GEM/2021/B/1192779)

Vendor	PROGILITY TECHNOLOGIES			
ITEM	PERSONAL VIDEO CONFERENCING SYSTEM FOR EXECUTIVES			
Tender Sl. No. reference	Description	Original Specification	Queries raised / Changes Proposed by the bidder	DGH Response/ Remarks
		Should be an integrated system with at least 21 to 27 inch LCD/TFT screen, 4K Screen resolution, 4K 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 LED screen should be a touch screen to provide a Multi touch interface to the user.	Should be complete system with at least 21 to 27 inch or higher integrated or third-party LED/LCD/TFT screen, 4K Screen resolution, 4K camera and with speaker for high quality audio output. The Codec, Camera, Microphones and Speaker should be an integrated unit. The LED/LCD/TFT screen should be a touch enabled screen to provide a Multi touch interface to the user.	Clause Modified as: Should be complete system with at least 21 to 27 inch or higher integrated or third-party LED/LCD/TFT screen, 4K Screen resolution, 4K camera and with speaker for high quality audio output. The Codec, Camera, Microphones and Speaker should be an integrated unit. The LED/LCD/TFT screen should be a touch enabled screen to provide a Multi touch interface to the user.
4	Video Input	Should have HDMI input to connect PC/ Laptop directly to the Unit. Must have a USB C input to connect Laptop and use the display as a dual monitor. Must support 4K resolutions.	Should have HDMI input to connect PC/ Laptop directly to the Unit. The LED/LCD/TFT Screen must have a HDMI/USB C input to connect Laptop and use the display as a dual monitor. Must support 4K resolutions.	Clause Modified as: Should have HDMI input to connect PC/ Laptop directly to the Unit. The LED/LCD/TFT Screen must have a HDMI/USB C input to connect Laptop and use the display as a dual monitor. Must support 4K resolutions.
		The user must be able to toggle between the Laptop/PC mode and the Video conferencing mode at a push of button/icon.	The user must be able to toggle between the Laptop/PC mode and the Video conferencing mode at a push of button/icon in the display.	Clause Modified as: The user must be able to toggle between the Laptop/PC mode and the Video conferencing mode at a push of button/icon in the display.
6	Audio	Audio System: The system should have two stereo front speakers with inbuilt microphones, wideband speakers.	Audio System: The system should have one or more front speakers with inbuilt microphones and speaker to support high quality audio.	Clause Modified as: Audio System: The system should have one or more front speakers with inbuilt microphones and speaker to support high quality audio.
		G.722, G.711, MPEG 4 AAC or better - which supports 20 KHz audio must be supported	G.722, G.711, G.719 / MPEG 4 AAC or better - which supports 20 KHz audio must be supported	Clause Modified as: G.722, G.711, G.719 / MPEG 4 AAC or better - which supports 20 KHz audio must be supported
7	Other Features	Noise Reduction/Echo Cancellation, Automatic Gain control, Automatic Audio mixer. Must have Noise Cancellation to remove background noise such as air conditioning	Noise Reduction/Echo Cancellation, Automatic Gain control. Must have Noise Cancellation to remove background noise such as air conditioning.	Clause Modified as: Noise Reduction/Echo Cancellation, Automatic Gain control. Must have Noise Cancellation to remove background noise such as air conditioning.
8	LAN	1 x LAN /Ethernet--10/100/1000 to connect a PC (i.e. built in switch)	Request to delete the clause.	Clause deleted
10	Data Collaboration	At least 2 USB ports so that the Camera, microphone and speakers of the units can be used with any SW client on the laptop connected to the device.	Should have USB port so that the camera, microphones and speaker of the unit can be used with any SW client on the laptop connected to the device.	Clause Modified as: Should have USB port so that the camera, microphones and speaker of the unit can be used with any SW client on the laptop connected to the device.
		Touch-redirect so that the touch screen itself can be used to advance presentation slides or do annotations over presentation instead of mouse or keyboard.	Request to delete the clause.	Clause deleted
9	Security	Meetings both point and point and multipoint, should be password protected and the same should be possible for SIP networks	Request to delete the clause.	Clause deleted
		The unit must support the option of disabling the secondary network port if not in use.	Request to delete the clause.	Clause deleted
10	Camera	50 degrees vertical field of view	Request to delete the clause.	Clause deleted

Reply of bidder's queries (Ref: Bid Number: GEM/2021/B/1192779)

Vendor				
PROGILITY TECHNOLOGIES PVT. LTD.				
Tender Sl. No. reference	Description	Original Specification/ clause	Queries raised / Changes Proposed by the bidder	DGH Response/ Remarks
ATC clause No. 3	Preference to Make In India products	Preference shall be given to Class 1 local supplier as defined in public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. The minimum local content to qualify as a Class 1 local supplier is denoted in the bid document 50%. If the bidder wants to avail the Purchase preference, the bidder must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which no purchase preference shall be granted. In case the bid value is more than Rs 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost auditor, if the OEM is a company and by a practicing cost accountant or a chartered accountant for OEMs other than companies as per the Public Procurement (preference to Make-in -India) order 2017 dated 04.06.2020. Only Class-I and Class-II Local suppliers as per MII order dated 4.6.2020 will be eligible to bid. Non - Local suppliers as per MII order dated 04.06.2020 are not eligible to participate. In case Buyer has selected Purchase preference to Micro and Small Enterprises clause in the bid, the same will get precedence over this clause.	Make in India 50% (Specifications of all the products mentioned are high end and of high quality. Such items are currently not manufactured in India. We are dealing with World leaders like Polycom and same is manufactured in Thailand or USA). In view of the same you are requested to consider items from friendly countries as well. You may provide preference to MII however request you to remove the conditions barring the tender bidding from items of other countries.	Pls refer the quoted clause. Only Class-I and Class-II Local suppliers as per MII order dated 4.6.2020 will be eligible to bid. Non - Local suppliers as per MII order dated 04.06.2020 are not eligible to participate.
Document required from seller (Page No. 1 of bid document)	Document required from seller	Experience Criteria, Certificate (Requested in ATC), OEM Authorization Certificate, Additional Doc 1 (Requested in ATC), Additional Doc 2 (Requested in ATC), Additional Doc 3 (Requested in ATC), Additional Doc 4 (Requested in ATC), Compliance of BoQ specification and supporting document *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer	Further item wise matching detailed specifications on GeM portal is not possible. You may club all items and ask for specifications of all items in one document and ask for it accordingly.	Pls refer the quoted clause. Compliance to BoQ specifications and supporting document is required.