

No.F. 180003/2018/NGMA
National Gallery of Modern Art
Jaipur House, India Gate
New Delhi-110 003

Dated. 02.07.2018

National Gallery of Modern Art Jaipur House New Delhi invites Tenders for Supply/Procurement of Video Capture System & Accessories for the upgradation of the Audio-video system of the National Gallery of Modern Art, New Delhi.

Terms and conditions

- I. Sealed tenders shall be submitted by the Original Equipment Manufacturer, Authorized distributor or supplier of reputed Audio-video equipment. A copy of certificate must be submitted along with the tender.
- II. Only such tenderers shall be considered who are willing to provide their services in time.
- III. The tenderers should have a valid GST, PAN number and an Income Tax Number in its name.
- IV. The NGMA reserves the right to select the bidder on the basis of best possible bids received. The decision of the Tender Evaluation Committee arrived shall be final and representation of any kind shall not be entertained on the above. Any attempt by any bidder to bring pressure of any kind may disqualify the bidder for the present tender and the bidder may be liable to be debarred from bidding for NGMA tenders in future for the period of three years.
- V. Any discrepancy by bidders will not be allowed by the committee to arrive at correct (LI). The bids of such bidder will be rejected.
- VI. The tender should provide the name and address of the firm including name of the Bank with a) Bank A/c. No. b) PAN No. c) registration number of sales Tax/VAT/Service Tax/GST whichever is applicable
- VII. The tender should quote the rate as per list of materials mentioned in Annexure "A". Sealed the Envelope with mentioned on top of the envelope "quotation for supply/procurement of Video Capture System & Accessories".
- VIII. The bidder shall take the sole responsibility for supply of Video Capture System & Accessories ", for a period of six months from the date of award of contract as the case may be. In case of any deviation of specification, the contract will be terminated in between.
- IX. Any other extra charges, if any i.e. transportation (delivery/loading/unloading etc.) shall be paid to the bidder but will be shown separately in the bid.

- X All the materials (equipment of Video Capture system) will be received only after the inspection by the representative. Below standard materials will not be accepted and will be returned to the bidder (Vendor) at his own cost.
- XI Permission for entry of the vehicle (Caring the materials) from Delhi Traffic Police obtaining by the bidder

EMD

EMD of this tender Rs. 50,000/- in favor of Drawing and Disbursing Officer, National Gallery of Modern Art by D.D or pay order.

Payment Terms

Payment shall be made after obtaining the satisfactory certificate from the concern department. Account section may deduct any taxes applicable time to time and payment shall be made through RTGS, as per the documents submitted for RTGS along with the bill.

Delivery:

The delivery of the items as mentioned in purchase order must be delivered within a week after received of the supply.

Prices:

The rates quoted shall be valid during the currency of the Contract and the material shall be supplied at the quoted rates. No upward variation in supply of video capture System & accessories shall be entertained.

Closing date

The last date to submit the quotation by 24/07/2018 before 12:00 pm addressed to Director General, National Gallery of Modern Art, Jaipur House, New Delhi.

Specification & Quantity

Mentioned in the Annexure-A. Quantity may decrease or increase. It depends on the requirements.

Validity.

The tender shall be valid for a period of six months from the date of opening of the tenders.

(Sushmit Sharma)
(D.D.O)

Date.....

Place.....

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(Sushmit Sharma)
(D.D.O)

Date: 02/07/2018
Place: New Delhi

ANNEXURE - 'A'

Upgradation of Video Capture System & accessories

Bill of Quantity

List of the Products required for setting up of a Virtual Classroom

1	Recorder and Streamer	01 Nos
2	Full HD PTZ Camera	02 Nos
3	Digital Podium	01 Nos
4	Visualizers	01 Nos
5	HDMI Transmitter and Receiver	04 Nos
6	HDMI Matrix Switcher	01 Nos
7	HDMI Audio De Embedded	01 Nos
8	65 Inch 4k resolutions display	02 Nos
9.	Joystick Controller	01 Nos.
10.	RS 232 Extender	03 Nos.
11.	Cables and Accessories as per actuals.	01 Nos

Specifications of Video Capture System & accessories

Technical specifications of Recorder and Streamer

Features	Specifications	Compliance Yes/No
Recording Options	Capture from Multiple Sources and able to record and Stream upto min three full motion HD Videos simultaneously in one frame upto 1080p resolution. Multiple encoding rates, Multiple frame rates, Auto Logo Insertion during recording.	
Streaming Options	Webcast, Unicast and Multicast	
Audio Only Encoding Formats	AAC	
Video Inputs	HDMI/VGA/RJ-45	
Input Channel	HDMI / VGA/ IP for Laptop, Visualizer and Cameras with 4 channel synchronized recording.	
Audi Input	Line In, Mic and 3.5 mm Stereo	
Video Processing	At different frame rates upto 30 fps; Multiple Bit Rate from 64kps to 24Mbps in Full HD Resolution of 1080p	
Output Channel	HDMI/VGA	
Storage	In-built Storage of min 1 TB	
Stored File Format	AVI / MPEG4	
Remote Storage	Yes FTP protocol	
Streaming formats	RTP and RTMP	
Display Output	Full Screen, Picture in Picture, Multi-channel split screen.	
Lecture Editing	Through Web-based back stage and Post Lecture Index Editing	
Operation Control	Through Remote Control and web based control interface	
External Control	RS-232 Interface Port	

Technical Specifications of Full HD IP Based PTZ Camera

Feature	Specifications	Compliance Yes/No
Sensor	1/3" 2 MP CMOS	
Optical Zoom	Min. 20X or More	
Panning Angle	+170 ~ -170°	
Tilting Angle	+90 ~ -30°	
Preset Positions	Min. 100	
Video Output (HD) Interface	HDMI, 3G-SDI, Ethernet	
Video Output	1080p 60/50 fps, 1080i 60/50 fps, 1080p 30/25fps, 720p 60/50fps, 720p 30/25fps, NTSC/PAL	
Camera Control Interface/Protocol	RS-422 / RS232 / Ethernet	
Video S/N Ratio	> 50dB	
Poe	Yes	
Shutter Speed	1/1~1/10,000	
Focal Length	f=4.7~94 mm	
Horizontal Viewing Angle	63 degree	
Aperture	F1.6~3.5	
Minimum Illumination	Min. 1lux	
Minimum Object Distance	300(Wide)~1500(Tele) mm	
Gain Control	Auto/Manual	
White Balance	Auto, Indoor, Outdoor, One-Push, Manual	
Exposure Control	Auto, Manual	
Focus System	Auto, Manual	
Image Flip	Required	

Technical Specifications of Digital Podium

Features		Digital Metallic Podium with Wooden Top	
1) 19"LCD Tablet Monitor		Specifications	Compliance Statement
LCD	Resolution	1440 x 900	
	View Area	409.8(H) x 230.4(V) mm – 19 inch	
	Luminance ,White	450 cd/m ²	
	Contrast Ratio	1000:1 (typ.)	
	Viewing Angle	160° (H/V)	
	Lamp Life Time	20,000 Hrs (min)	
Tablet	Technology	Electromagnetic Resonance	
	Detectable Height	3~10mm	
	Position Report Rate	138pps	
	Pressure Resolution	1024 Level	
2) BODY			
Body		Steel Frame with Wooden Top	
Sliding cover		Opening/Closing the cover easily	
Soft wheels		Moving podium with convenience	
Adjusting Monitor Angle system		User can set monitor angle as user's want	
(Actuator)			
In-built Rack		Podium should have an in-built 19U Rack for housing Amplifier, PC, DVD Player, etc.	
Top Connection Panel		Should have RGB x 1 for connecting External Laptop, USB x 2 for external USB Drive, HDMI, Power Socket, Switcher and Gooseneck Microphone.	
Sound System		Good Sound System with in-built 240 Watts Mixer Amplifier and Two External Speakers.	

Dimensions	687 (W) x 1054 (H) x 860 (D) mm	
HDMI IN	4 x HDMI	
HDMI Out	2 x HDMI	
Optical Audio	1 x Toslink	
Coaxial Audio	1 x RCA	
Stereo Audio	2 x RCA	
RS-232 Port	1 x DB 9 female	
Power	1 X DC Jack	
IR Extension Port	1 x 3.5 MM phone jack	
Port Switches	4	
ARC Selection	1	
Power Button	1	
IR Control	1	
Video	HDTV Resolution of 480p, 720P, 1080i,1080P, 1920 x 1200	

Specifications of Desktop Visualizer

Features	Specifications	Compliance Yes/No
Pick-up Device	CMOS	
Output Resolution	SXGA (1280x 1024), WXGA (1280 x 800), 1080p	
Frame Rate	30 frames/sec.	
Min Capture Area	467 x 355 mm	
Zooming	Min 20X Optical Zoom and 12 X Digital Zoom	
Lamp	Top Light: LED x 2. Built-in Back Light for negatives and slides.	
Built in Storage	Min 240 frames	
External Storage	Supports USB drive upto 32 GB	
Image Capture	Single or continuous capturing images (time lapse photography)	
Picture by Picture	Yes	
Recording	One touch Video / Audio recording in standalone mode with built-in microphone.	
Image Rotation:	0, 180, mirror, flip.	
Slide Show	For continuous image playback (auto or manually)	
Focusing, White Balance and Exposure	Auto / Manual	
Annotation	Yes, Connecting by USB Mouse without PC	
Inputs	VGA Input HD-SUB 15 Pins Female x 1	
	HDMI x 1	
	Audio In x 1	
	Built in MIC x 1	
Outputs	VGA Output HD-SUB 15 Pins Female x 2	
	HDMI x 1	
	Composite Video x 1	
	USB 2.0 High Speed x 1	
	RS232 x 1	
	Audio out x 1	
Weight	Portable. Not more than 6.0 Kg.	
Desired Features	Spotlight, Annotation, Low Light Mode, Mask, PAN across the screen, Picture By Picture, Audio Video Recording in standalone mode, time lapse picture capturing.	

Specifications of HDMI Transmitter and Receiver

Specifications	Compliance Yes/No
HDMI Extender Max. Data Rate 10.2Gbps (3.4Gbps per lane) 10.2Gbps (3.4Gbps per lane), Compliance HDMI (3D, Deep Color, 4K) HDCP Compatible Consumer Electronics Control (CEC), Up to 4K@35m (Cat 5e/6) / 40m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@60m (Cat 5e/6) / 70m (Cat 6a/ATEN 2L-2910 Cat6)*4K supported: 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)	

Specifications of HDMI Matrix Switcher

Specifications	Compliance Yes/No
HDMI Matrix Switcher with Interfaces 4 x 4 HDMI Type A Female , Impedance 100 Ω Max. Distance of hdmi cabel Input & Output Upto 15m, Max. Data Rate 10.2 Gbps (3.4 Gbps Per Lane) Max. Pixel Clock 340 MHz, Compliance HDMI (3D, 4K, Deep Color) HDCP 1.4 Compatible Consumer Electronics Control (CEC), Max. Resolution Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0); 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4), EDID Support, 1 x Mini Stereo Jack Female	

Specifications of HDMI Audio De Embedder

Specifications	Compliance Yes/No
HDMI Repeater Plus Audio De-embedder Max. Data Rate 6.75 Gps (2.25 Gbps Per Lane), Compliance HDMI (3D, Deep Color) HDCP Compatible, Max. Resolution Up to 1920 x 1080, Output 1 x HDMI Type A Female; 1 x Toslink; 1 x 2 RCA; Max. Pixel Clock 225 MHz	

Specification 65" 4K Professional Display

Specifications	Compliance Yes/No
65 4k Resolutions professional display with Brightness of 300 Nits, contrast Ratio 4000:1 HDMI, RS-232 , and Lan port inputs.	

Specification for Joystick Controller:

Specifications	Compliance Yes/No
Joystick for PAN/Tilt/Zoom and Focusing, RS232C/RS455/IP Communication Interfaces, High Brightness OLED Display, Auto Backlit Keys, should be able to control at least 5 cameras	

Specification for RS232 Extender:

Specifications	Compliance Yes/No
Joystick RS 232 Extender for Camera controller Upto 100 Meters Max 7 Camera	

Specifications	Compliance Yes/No
Cables, Conduiting and Accessories as per the requirement	

Specifications	Compliance Yes/No
Programming, Installation, training Charges	

AUTHORISATION FORM

Annexure –III

No. _____ Dated _____

To

Dear Sir:

Tender No. _____

We _____ who are established and reputable manufacturers of _____ (*name and descriptions of goods offered*) having factories at _____ (*address of factory*) do hereby authorize M/s (*Name and address of Agent*) to submit a bid, and sign the contract with you for the goods manufactured by us against the above tender.

We hereby extend our full guarantee and warranty as per the tender No. _____ for the goods and services offered for supply by the above firm against this tender.

Yours faithfully,

(Name)

(Name of manufacturers)