Seth G. S. Medical College & King Edward Memorial Hospital

Under MoHFW National Medical College Network (NMCN) Project
Regional Resource Centre, Western Region

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NOTICE /2017

MRB/NMCN/TPMU/

Date: 25/03/2017

Sub: Invitation of quotations for "Purchase of Digital Podium with Lecture Delivery Software for lecture theatres"

Dear Sir/Madam,

We are inviting to submit your most competitive rates for following items for digital podium for medical lecture theatres for NMCN project the details are as follows.

S.No	Particulars	Technical Specification	Quantity	Unit Price	Amount
1	Digital Podium with Lecture Delivery Software	Annexure - I	1		
Total					

Terms and conditions:

1) **Bid Price:**
   a) All duties, taxes and other levies payable by the contractor under the contract shall be included in the total price.
   b) The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to the adjustment on any account.

2) **Validity of Quotation:**
   Quotation shall remain valid for a period of not less than 30 days after the deadline date specified for submission.

3) **Evaluation of Quotations:**
   The purchaser shall evaluate and compare the quotations determined to be substantially responsive i.e.
   a) Are properly signed.
   b) Conform to the terms and conditions and specifications.

4) **Award of Contract/Order:**
   The purchaser will award the contract/order to the bidder whose quotation has been Determined to be substantially responsive and who has offered the lowest evaluated quotation price.

a) Not withstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior

to the award of contract.

b) The bidder whose quotation is accepted will be notified about the award of Contract by the purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be incorporated in the purchase order.

5) Liquidity Damages:

Liquidity damages at the rate of 0.5% per week for the delay in work subject to maximum of 10% computed on the value of delayed.

6) Warranty:

The warranty period should be clearly mentioned. After the warranty period is over, Annual Maintenance Contract (AMC)/Comprehensive Maintenance Contract (CMC) up to next two years should be started. The AMC/CMC charges will not be included in computing the total cost of the equipment.

7) Payment will be made after completion of satisfactory work & report, along with the bill.

8) You are requested to provide your offer latest by **2.00 pm hours on 29/03/2017.**

9) Quotations will be open in the presence of the committee at 11:00am **on 30/03/2017 in the office of the Nodal Officer, RRC, Professor and Head, Microbiology Department, Fifth Floor, New MSB building, Seth GSMC & KEM Hospital, Mumbai.**

10) Notice is uploaded on KEM website; we look forward to receiving your quotations and thank you for your interest in this project.

Sd/-
Dr. Preeti Mehta
Nodal Officer, RRC,
Professor and Head,
Microbiology Department
Seth GSMC & KEM Hospital,
Mumbai.

Sd/-
Dr. Avinash Supe
Dean, Chairperson, RRC,
Telemedicine Program
Management Unit,
Seth GSMC & KEM Hospital,
Mumbai.

- **Digital Podium with Lecture Delivery Software**

S.No	Particular	Technical Specification
1	Type/Mounting	Free Standing
2	Construction	The podium shall be wheel mounted capable of moving in all directions with a facility of lock them while the Electronic podium is in use. The enclosure shall be made of Polymer Powder Coated Steel Body with wooden top panels, designed to work in suitable environmental conditions. The wooden top shall have lock and key and should have a sliding cover for opening/closing easily. The Podium should have housing and connectivity for Visual Presenter while the visualiser is in use and not in use. At the time of using the Visualiser, drawer can be opened and Visualiser can be used. The construction of the podium should be such that, while the podium is locked and not is use, there should not be any port exposed/ visible on the outer body for breakage/mishandling.
3	Display	Built-in highly sensitive Interactive Panel with adjustable tilt & a mechanism to make the Panel stable so that it does not shake while writing with following minimum features -
(a)	Screen Type	LED
(b)	Size	53.0 cm (21 inches) or higher
(c)	Resolution	1920 x 1080 or higher
(d)	Aspect ratio	16:9/16:10
(e)	Computer interface	One USB, One VGA/DVI, HDMI Port
(f)	Interactive Resolution	4000 Lpi (lines per inch)
(g)	Response Time	5ms
(h)	Viewing Angles	170(H) ; 160(V)
(i)	Touch	Finger and Stylus
(j)	Reading accuracy	±0.5 mm (center)
(k)	Tracking speed	Approximately 200 points per second
(l)	Pen Pressure sensitivity	2048 Levels
(m)	Speakers	Display panel should have Inbuilt Speaker
4	System Details	

	Branded	Computer System
(a)	Processor	3.0 GHZ or higher, 3 MB Cache on motherboard
(b)	Industrial Grade Chasis	Small form factor chasis in mini form factor for operation in suitable temperature environments.
(c)	Chipset	Suitable chipset for the processor.
(d)	Memory	4 GB or higher (Upgradable)
(e)	HDD/Storage	1 TB or higher
(f)	Expansion I/O	2 USB 2.0/3.0, LAN 10/100/1000, VGA
(g)	Keyboard+Optical Mouse	Wireless
(h)	Audio	1 x Line-out/1 Line-in
(i)	Graphics	HD Graphics 1GB
(j)	Operating System	Windows 10 pre-loaded
(k)	Antivirus	Quick Heal Anti-Virus or equivalent with 3-year license
5	Console Panel Ports accessible from outer body of Podium.	
(a)	RGB Input	1 x VGA/DVI, HDMI Input (Appropriate adapter other than the input of the PC in the podium to facilitate extra PC / Laptop etc.)
(b)	USB Input	USB 2.0/3.0 Port on the panel to facilitate inputs directly from Pen Drives/USB based hard disk Drive etc.
(c)	LAN Connection	RJ 45 LAN Port at the panel to connect network
(d)	Display	Selection switch to toggle between various sources for the output on the projection screen through a touch panel.
6	Built in devices	Built-in devices on the Panel with easy access and control consisting of:
(a)	Gooseneck Microphone	Gooseneck Microphone with XLR output. It should be Phantom powered so that there is no requirement of batteries. The gooseneck length should be at least 21.5cm with ON/OFF switch and with LED light indicating ON/OFF status.
(b)	Wireless Microphone Units	The podium shall have a Receiver with a range of 10m & shall come with 1 Handheld Mic and One Cordless Collar mic.
(c)	Built in Amplifier Power	50 Watts minimum or higher
(d)	Speakers	Two speakers of Minimum 30 W each shall be a part of standard supply.

(e)	Central Controller with Panel	AV Switcher with 4 Input ports (RGB/HDMI/DVI and RCA) and 2 Output ports. (RGB/HDMI/DVI) for selection of sources as selection switch to toggle between various sources for the output on the projection screen. The podium shall have a controller with minimum 2 VGA inputs, 2 Audio Inputs, 2 Video inputs and required outputs to exploit all the functionality of the podium.
7	Sliding Trays	Provision for keeping laptop and Keyboard & Mouse
8	Locking Mechanism	All the locks (3/4) fitted in the powder coated steel body should have a single key. Different podiums key should not be interoperable.
9	Power Supply and Cable, Accessories	180 -240V, 50Hz, AC Supply, Above all items with required Cable & Accessories or equivalent
10	Security	Integrated authentication System having RFID, Password protection & Physical Key for secure access to system.
11	Compatibility	Must be compatible with IB80C, and VP-HD 401, 301, 501 & 351
11	Fans	Suitable cooling fans to be provided in the lower body.
12	Inbuilt HD Visualiser	Full HD (1920 x 1080), Aspect Ratio 16:9, High Resolution-750 TV Lines, Camera- CMOS Technology, Frame- 30 fps, Optical Zoom: 12x Shooting Area- 380mm x 285mm, Focus -Auto/ Manual, Image Memory-128 Images, Rotation Image-0 degree, 90 degree, 180 degree, 270 degree, Upper lighting- Twin LED Lamp, Base Light- Backlight. Computer Interface with software through USB port. Remote control with full function for Zoom, rotate, store, auto-focus, power on, input sources etc. Input/output Ports- Input: one VGA.Output: One VGA, HDMI, Power Requirement: 210V - 240V, 50 Hz AC through adaptor. Standard Accessories: Remote Control cell, Lens Cap, User Manual, VGA Cable, Power Cable, Carrying Case, HDMI cable, USB cable, Manual.
13	Warranty & support	3 years Warranty

Lecture Delivery Software
Should Support multi touch & multi writing (on Win platform)
Should support Gesture Recognition like zoom, pan, tilt, flicks etc. (on Win platform)

Native handwriting recognition of English (on Win platform)
Should have the following interactive tools/features like Pen, Eraser, spot light, curtain, shape recognition, shape editing, auto grouping, infinite color options for annotation, color bucket, back ground pattern, lines & arrows, screen capture tools (freehand capture is must), import / export files, recycle bin, unlimited pages, Cut & Paste, page navigation, save page(s), Undo/Redo, Geometric Tools like protractor, compass, ruler etc.
Shape-recognition up to six-sided figures (on Win platform)
Should capable to annotate on any 3rd party applications
Annotation Capability & integration with MS office application (for Win platform only):
a. MS Word: handwriting recognition & draw object
b. MS Excel: Should draw graph w/o touching KB & Mouse
c. MS Power point: Should Create, Edit, Save, delete & annotate slides
Should have recording feature to record application and voice.
Extensive Resource Library with relevant Educational content
Capability of taking Snapshot from running video (Win platform)
Should support & operational with MS Touch Pack (Free MultiTouch application on Win platform)
Must have "Cloud Access" in Interactive Lecture Delivery software to access filtered Images & videos on any topic in the world from WWW.
Creation of Image Resource folder for every teaching faculty to deposit images as per subject/ Curriculum.
Recording of Lecture with Voice & Computer Application-Super Compressed recording (1-hour class room lecture Recording with smaller file size only).
Conversation of Powerpoint to Interactive software (Lecture Delivery software) Attach video file to Interactive software pages to organize lecture

Basic Training
setting up and switching on Podium to conduct lecture
Lecture Delivery tools- Making Teaching faculty familiar with Digital Pens, Eraser, Text Pen, Adding deleting Digital white pages
Toogle from Digital white pages to Desktop on Computer and open any Videos, PPT, any Simulation software
Annotating on software application Videos, PPT..
Saving of Digital Lecture in PDF, PNG, CNX Format
Advance Training
Recording of Lecture with teachers voice
Creation of Image resource as per topic/ subject wise.
Creating Video resource by Downloading Videos from Internet world (Methods and Technique)
Editing Video or stitching Multiple video to create Video lecture. (Technique)
Techniques and Method to share Digital Handouts with students.
Technique and Method to create offline recorded video lectures for students with teaching faculty face seen in small window and teaching digitally.
Techniques to raise volumes of Videos where volume is very low.
Supporting Material
Email Modules of training to all teaching faculty
What's app video of all training Module to all teaching faculty
Digital Manual of Lecture Delivery software to be share with all teaching faculty via Training Emails