

R. B.College
Dalsingsarai -848114, Dt. Samastipur,
Bihar

TENDER DOCUMENT FOR

Designing, Supply, Installation & Commissioning of
SMART CLASS ROOM

DETAILS OF TENDER

TENDER NOTICE NO.	02/2018
Dated	09-08-2018
LAST DATE & TIME FOR RECEIPT OF TENDER	20-08-2018: 3.00 pm
DATE & TIME OF OPENING	25-08-2018: 12.30 pm
NAME AND ADDRESS OF THE TENDERER	The Principal, R. B. College, lsingsarai-848114, Samastipur, Bihar

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SECTION - I

INVITATION FOR Bids

1. The Principal, R.B. College, Dalsingsarai, Dt. Samastipur), 848114, Bihar, invites sealed tender from eligible bidders /firms for Supply, Installation & Commissioning of various components of SMART CLASS ROOM at R. B. College, Dalsingsarai.
2. Interested and eligible bidders/firms may obtain further information, if required, from the office of The Principal, R. B. College, Dalsingsarai (Samastipur), 848114, Bihar, The bidding document may be obtained by downloading it from **www.rbcollge. ac.in**.
3. Bids/Quotations will be opened in the presence of members of the College Development Committee on the date mentioned above.
4. In the event of the date specified for receipt and opening of quotations being declared as a holiday for purchaser's office, the due date for submission of bids will be the following working day at the appointed times.
5. The date fixed for opening of bids/quotations may be extended in case of any unforeseen reason and that will be informed to concerned persons through email.

SECTION - II

Instructions to Bidders

1. The Supply, Installation and Commissioning of SMART CLASS ROOM will be done at Ramashray Baleshwar College (R.B.College), Dalsingsarai-848114, Samastipur, Bihar.
2. The bidders will have to quote the price (in INR) of all the items related to Smart Class Room as mention in the requirement list along with their installation charges in the financial bid and the cumulative price shall be taken into consideration.
3. The Supply, Installation and Commissioning schedule shall be within 90 days from the date of issuing of work order at the location as mentioned in the tender.
4. In case of any discrepancy between rates mentioned in figures and words, the offer shall prevail. If there is any discrepancy between the unit price and the total the unit price shall prevail and the total price shall be corrected.
5. The bidder whose tender is accepted has to supply the items within the stipulated period as mentioned. After successful installation by bidder company's/Authorized partner technical support will be provided when required for duration of 12 (twelve) months.
6. The Bids must reach the undersigned on or before the due date, i.e. Bids received after the due date and time is liable to be rejected. The college shall not be responsible for any postal delay. However, in the event of due date being a closed holiday or declared holiday, the due date for submission of the quotations will be the following working day at the same time & venue.
7. The bids shall include all specifications as detailed in the document. Silence in any of the specifications will be interpreted as non-conformity with purchaser's requirement.
8. If the items supplied by the accepted bidder are not as per the specification of the Smart Class Room, the College reserves the right to reject them.
9. The rates quoted should indicate clearly all applicable taxes and all charges and should be in INR.
10. The tender should be submitted in two cover system i.e. A: Technical Bid and B: Commercial Bid. There should be proper indication of the contents on each envelope.
11. The Bidders shall seal the envelope No.1 Technical envelope and envelope No.2 Commercial envelope in separate inner envelopes, duly marking the envelopes as "envelop No.1, Technical Envelope" and "envelope No.2 Commercial Envelope". He shall then place these two envelopes in an outer envelope. Both the inner envelopes and the outer envelope

should be addressed to: The Principal, R. B. Colldege, Dalsingsarai- 848114,Samastipur, Bihar.

12. All the pages of the bid should be signed along with company's seal.

13. Evaluation Criteria: -

Complying with the specification as far as possible as mentioned in **Annexure A**

Preference shall be given to firms who have the experience in the related field.

14. All civil work during the installation of Smart Board along with the Projector and other related or unrelated items and during networking will be carried out by the bidder in such a manner that it should match with the existing civil work of the classrooms.

15. The College reserves the right to reject any or whole quotations without assigning any reason thereof and does not bind itself to accept the lowest quotations whatsoever.

16. That in case of any disputes between concerned parties the decision of The College Development Committee of the College will be final and binding on all parties concerned.

SECTION - III

TERMS AND CONDITIONS

1. Rates should be valid for a period of 120 days from the date of the opening of the quotations and that the College may give orders or repeated orders during this period.
2. The College reserves the right to only procure some items at a time.
3. The Tendering Authority will award the work to the successful bidder whose bid has been determined as the lowest evaluated bid provided further that the bidder is technically eligible.
4. The supplier will have to assume onsite support of the supplied items.
5. During the onsite warranty period of 01 (One) year the bidder/ firm shall have to rectify/ change free of cost any hardware/software defect.
6. Firms shall respond to Technical Specifications in the prescribed format only as mentioned in **Annexure-A** of Tender Document.
7. Firm shall quote for price in the prescribed format only as mentioned in **Annexure-B** of Tender Document.
8. The terms and conditions of the tender are binding.
9. The cost of Tender document is Rs. 2000/. Participation in the tender will be subject to remittance of the prescribed Cost of tender document in the form of DD drawn in favour of PRINCIPAL along with the Technical Bid.
10. EMD of Rs.40,000/-(Forty thousand only) in the form of Crossed Demand Draft drawn from any commercial bank in favour of "The Principal , R. B. College, Dalsingsarai" payable at Dalsingsarai, Samastipur should be enclosed with the tender (technical bid) by the bidder(s). The EMD of unsuccessful bidders will be returned soon after the finalization of Tender. The EMD of the successful bidder will be returned after satisfactory completion of contractual obligation. No interest will be paid on EMD for the period of retention in the College. Tenders without EMD would be rejected.
11. In no case advance payment will be done. 95% (ninety five percent) of the total cost will be made after successful Installation, demonstration and training of concerned college personals. The balance amount that is 5% (Five percent) of total cost will be kept as security deposit and refunded without interest only after completion of warranty/ guarantee period.

SECTION - IV

ELIGIBILITY CRITERIA FOR PARTICIPATING IN THE TENDER (Valid & Up to date Documentary Evidence to be enclosed)

1. The Firm must have been in the IT Business for at least 3 years.
2. Details of Income tax and GST to be submitted along with the offer. Photocopy of Pan Card, Aadhar Card and other documents must be attached with tender documents.
3. The Original manufacturer of goods and other items should be an established vendor with presence in India for the last 5 years.
4. The Data sheets / Cross reference documents and technical documents submitted should be available on the websites of the respective manufacturer and the URL links to the respective documentation should be provided in the compliance statement. Any document which is not available on the website of the Original Manufacturer would be treated as invalid document submitted and noncompliance against the technical specification asked in the quotation document.
5. The Firm should have experience of implementing SMART CLASS ROOM in reputed Institute/ College/ University/NITs / IIT in India. The Firm must have conducted a Users' Trainings for such Installation. Documentary Evidence of such Trainings with Photograph has to be provided. Completion Certificate of the aforesaid work, if any, needs to be submitted.

SECTION - V
Estimated Bill of Quantity

SMART CLASS ROOM:

SL. NO	ITEM	UNIT/ QUANTITY
1	Interactive White board 82" Diagonal (Panasonic/ Hitach/ Softlogic/Pacific System0	2
2	Interactive Pad (Softlogic/Globus or any reputed company)	2
3	Interactive Panel (BenQ/ Globus infocom/ any other reputed company)	2
4	Desk top Computers hp 7th Gen. Core i7/i5 processor	2
5	Ultra Short throw projector with ceiling mount kit with Cables and accessories	2
6	Motorized Screen with Remote Control 6ftx8ft-120" diagonal	2
7	Full HD ultra 4K smart LED TV (Sony/Samsung/LG)	2
8	Document Visualizer of any reputed ISO 9001 Certified Company	2
9	UPS with 60 minutes battery backup (Luminous/ Exide/ V Guard)	2
10	Digital Podium (Brio Interactive Technology Or any Other reputed ISO 9001	2
11	Digital interfacing and all digital cable connectivity to integrate all the equipment Integrated Certified Company)	2
12	Renovation of Class rooms as per on site requirement	Sqft

Annexure - A

Technical Specification for Various Items/ Components of SMART CLASS ROOM

1. Interactive Whiteboard Technical Specification

- Interactive White board 82" (Panasonic, Hitachi/ Softlogic/ Pacific System)
- Board surface: Scratch resistant, Solid surface ; maintenance free, compatible with ink marker, any object touch:
- Operating system Compatibility- Compatible with Windows XP or higher operating system and compatibility with Linux Operating System
- Interface (input): Video (VGA, HDMI, DVI x 2, Display port, Audio (Line 3.5 mm)
- Interface (output): Video (display port), Audio (speaker-out) Interface (others): USB 2.0 (type B) x1, RS-232C:
- Dimensions (WxDxH) 1,935 x 131 x 1,134 mm:
- Power Source 100 - 240 V, 50/60 Hz;
- Writing tool: Pen/ Stylus/ Finger
- Resolution: 8000*8000
- Cursor Speed 120 pt/s
- Touch Area (MM): 1627*1147: Operating Temp. + 50⁰ C:
- Operating Humidity 20 to 90 %.
- Annotation software: Annotation software shall include features like draw, pens annotate, erase, colour, shapes, sizes, text, edit, fonts, stamp, move, capture picture, video, save, rotate, undo, image gallery, print, floating keyboard and background etc.
- Warranty Comprehensive onsite warranty for 3 years.

2. Portable Interactive Pad Technical Specification

- Built in Colour LCD display
- Communication Interface: Wireless 2.4G RF
- Technology: Electromagnetic digital echnology
- Pad Size: 10 inches
- Active area : 8" x 6"
- Resolution : 4000 lpi
- Type : plug & play
- Pressure Level : 1024 levels
- Report rate : 120 points/sec
- Wireless Operation Range : 20 mtrs or more
- Hardware interface: USB
- Touch input: Electronic Pen (battery operated) with two buttons (On/ Off)
- Pen charging: housed within the pad's body
- Operating System: Windows 10
- Power supply: Rechargeable Lithium Ion Battery, Battery life: 40 hours (Typically)
- Annotation Feature: Live annotation over presentations, programs, documents and web pages, applicable to all Microsoft office programs, including power point, excel and word, visual white board to capture written notes and idea in colour. Fully battery operated, clip art library
- Pen : 1 AAA (1.5V) battery
- The pads shall be supplied with complete & detailed catalogue in a) Hard copy 2 nos. and b) Soft copy - pdf format in CD 1 no.

3. Flat Interactive Panel (BenQ/ Softlogic /Globus Infocom) Technical Specification

- Display Size, Tool and Type: 65 Inch germ-resistant AG+ Screen coupled with proficient annotation tools Indoor Type LED
- Contrast Ratio: 1400:1 or more
- Resolution: 1920x1080 pixels
- Touch Technology: IR Touch
- Number of Touch: Upto 20 points
- Touch Interface: USB (type B) x 1
- OS: Windows 10, Mac OS X 10.6 to 10.11, Linux
- Internal Speaker: 10-20W x 2
- Voltage: 100-240 V

- Frequency: 50-60 Hz
- Dimension 1523x924x98 mm / 1697x1071x220 mm
- Brightness: 350 nits
- Wall Mounting 600x400 mm
- Viewing Angle: 178/178 degree
- Response Time: 6 ms

4. Desktop Computer

- Desktop PC hp/Dell.
- Chipset - H110 or higher
- Processor - Intel Core i5/i7 7th/8th Generation
- Memory - 8GB DDR4, 2666 MHZ, RAM expandable to 32 GB / 2 DIMM Slots
- Hard Disk - 2TB 5400 rpm SATA HDD & 256GB SATA SSD
- USB Ports - 8 USB Ports (2 Front USB 3.0, 2 Rear USB 3.0, 4 Rear USB 2.0)
- Legacy Ports - Serial, 2 PS/2,; Slots PCIe X1, PCIe X16, PCI, M.2
- Bays 3 (1 ODD External, 2 HDD internal)
- Display Ports 1 VGA, 1HDMI
- Security TPM 1.2 upgradeable to 2.0
- Operating System - Windows 10 Professional 64bit/ Free DOS/Linux
- Monitor - 22"; FHD Monitor (1920x1080), anti-glare, narrow border
- Keyboard/Mouse – Wireless/ USB 104 keys keyboard (Same make as PC);
- MS Office 10 and Antivirus Quick hill/ K7 preinstalled.

5. Ultra Short Throw Interactive Projector

- Projection System DLP
- Native Resolution WXGA 1080p 1920 x 1080
- Power Supply Voltage:100 - 240 V AC \pm 10%, 50/60 Hz
- Operating Temperature: Single Use:0 - 45 °C*4 <32 - 113 °F> (20% - 80% humidity, No condensation), Multi-projection Use:0 - 40 °C*4 <32 - 104 °F> (20% - 80% humidity, No condensation);
- Screen Size (Projected Distance): Standard Size:70" - 100" [40.5 - 59.3 cm] 90" screen 53cm;
- Brightness: 2700AL or higher
- Contrast Ratio: 20000:1
- Internal Speaker(s): Sound Output:16W Mono x 1;
- Connectivity: Network Wired LAN: RJ45 x 1 (100Mbps); Wireless: Yes (ELPAP10 Included)
- Analog Input: D-Sub 15Pin: 1 (Blue) Composite: RCA x 1 (Yellow)
- Digital Input: HDMI: 2 (HDMI1 in common with MHL)
- Analog Output Terminal:D-Sub 15Pin: 1 (Black)
- Digital Output Terminal:DVI-D: 1 (HDCP contents are not supported)
- Audio Input:Stereo Mini Jack: 2Audio
- Output:Stereo Mini Jack: 1Control I/O:RS-232C: D-Sub 9pin x 1 Interactive Sync: In x 1, Out x 1;
- Touch Unit Control: Mini DIN 8pin x 1 Remote: Stereo Mini x 1 (for Control Pad).; Control I/O:
- Remote Control Input: Stereo mini x 1 (For Control Pad);
- Operating Altitude:0 - 3,000 m (0 - 9,842 ft) (over 1,500m / 4,921ft: with high altitude mode).;
- Start-Up Period: Less than 9 seconds,
- Quick Vertical/Horizontal Keystone: \pm 3° / \pm 3°
- Quick Corner: Yes;
- Direct Power On /Off: Yes
- Startup: Approx 5 seconds (HDMI / Computer/Video input),
- Warm-up period: 30 seconds.;
- Cool Down Period:Instant Off.;
- Air Filter Type: Electrostatic Filter
- Maintenance Cycle:10,000 hour^{*4};

- Power Consumption (220 - 240V);
- Lamp On (Normal/Eco):423W / 332W Stand By (Network On / Off):Under 2.0W / Under 0.5W;
- Wireless Specifications: Supported Speed for Each Mode: IEEE 802.11b: 11Mbps^{*3} IEEE 802.11g: 54Mbps^{*3} IEEE 802.11n: 130Mbps; Wireless LAN Security:
- Quick Mode: WPA2-PSK
- Advanced Mode: WPA/WPA2-PSK, WPA/WPA2-EAP Supported EAP type:
- Fan Noise (Normal/Eco): Less than 39dB/ Less than 30dB.
- Interactive Unit Technology: Infrared;
- Input Devices: Interactive Pen, Digital Pen (Easy Interactive Pen 1 & 2) Fingers: Yes (Up to 6 Fingers) Pen: Auto/Manual (25 Points); Finger: Manual (16 Points)
- Connection To Computer: USB
- Network; Calibration:
- Functions: Hover, Right Click, Auto Adjust Pen Area

6. Motorized Projector Screen

- Active 3D and 4K Ultra HD Ready
- MaxWhite material that is easy to clean & durable
- 180° wide viewing angle with 1.1 gain
- Has standard black masking borders
- Consists of flame retardant material
- Comes with an Infrared (IR) remote control
- Low-voltage internal IR Receiver
- Has an RJ45 input port that allows for easy integration with third-party control systems
- Durable casing for installing on either walls or ceilings
- Ready to plug and play
- Laser Pointer

7. Full HD ultra 4K smart LED TV

- Screen Size 55" IPS Panel
- 20w sound
- Web O.S- 3.0,
- Magic Remote,
- Smart Share
- Mira Cast
- Network file Browser, Web Browser, 3G, 4G Dongle Compatible

8. Document Visualizer Specification

- Sensor: Pick-Up Device; CMOS Size; 1 / 2.7" Effective Pixels; 2M Pixels (1920 x 1080) Frame Rate; Up to 30fps Native Resolution; 1080p (16:9 Aspect Ratio)Video Output:Display Out; SXGA (1280 x 1024) / XGA (1024 x 768) / WXGA (1280 x 800) / HD (1360 x 768) / 1080p (1920 x 1080) HDMI; 480p / 720p / 1080p USB-B; VGA / SVGA / XGA / SXGA / WXGA / 720p / 1080p
- Optical Systems:**Lens:**Type; Optical Zoom / FocusF-Number; F = 3.4 – 5; Shooting Area; Max 297 x 526 mm at 1080p output resolution, Zoom; Up to 10x Digital, Up to 12x Optical Focus; Automatic (need to press "Focus" button), Focus adjust time: less than 2 sec Illumination:Upper; White LED x 2 (variable LED light)
- Interface Port: Input:D-Sub 15Pin (VGA); 1 (Black)**Output:**D-Sub 15Pin (VGA); 1 (Blue) HDMI; 1 (in common with CEC control) USB I/O; Type B x 1 Internal Microphone; Yes (Monoral) Memory I/O SD Card; 1 (SD / SDHC, No SDXC support)

9. Integrated Digital Podium

- Podium made up of good quality metallic material.
- Input/output Port on Top - 2USB, 2 XLR for mic. At right bottom 2 USB, VGA in & Out, Audio in & Out, LAN. HDMI power socket with on off switch;
- Space for PC, Amplifier, controller etc., built in rack Sliding top tray for laptop/ Documents Drawer for keyboard and mouse
- 8 built-in power sockets modular spark resistant inside with central power control MCB
- Lockable Drawer for document camera opposite side of the Laptop tray
- Full Size access door for service from audience side of the Podium Each Door/Drawer/Tray with locking system.
- Display 22" Touch Panel

- Audio Gooseneck Mic, Wireless Mic, Amplifier, Speaker
- Computer- RAM 2 GB, HDD- 500 GB KBD & Mouse – Wired/Wireless Processor – Core i3.

Annexure B
Technical Bid Form

(Enclosed with Technical Bid)

Bid: Technical Proposal Sheet (Enclosed with Technical Bid)
Bidders Proposal Reference No. and Date:
Bidders Name and Address:
Person to be contacted:
Designation:
Telephone No(s) Telex No.:
Email id:

To
The Principal,
R. B. College, Dalsingsarai- 848114,
Samastipur, Bihar

Subject: Submission of Technical Proposal for Supply, Installation & commissioning of Smart Class Room

Sir,

1. We, the undersigned Bidders, having read and examined in detail the Specifications and all the bidding documents as specified in the Bidding documents
2. **PRICE AND VALIDITY:** All the prices mentioned in our proposal are in accordance with the terms as specified in bidding documents. All the prices and other terms and conditions of this proposal are valid for a period of 180 calendar days from the date of opening of the Bids. We are an Indian firm and do hereby confirm that our Bid prices include all taxes including Income Tax and Professional Tax. We have studied the Clause relating to Service Tax and hereby declare that if any Income Tax, Surcharge on Income Tax, Professional Tax and other Corporate Tax is altered under law, we shall pay the same.
3. **UNIT RATES:** We have indicated in the relevant schedules enclosed the unit rates and in case of any discrepancy in the unit price & the total price, the unit price shall prevail and the total price shall be corrected.
4. We declare that all Services/Works shall be performed strictly in accordance with the Scope of Work.
5. **BID PRICING:** We further declare that the prices stated in our proposal are in accordance with your Instructions to Bidders included in bidding documents.
6. **BID PRICE** We declare that our bid prices are for the entire scope of the work as specified in the technical specification and bid documents. These prices are indicated in Annexure 2 attached with our proposal as part of the Commercial Bid. We hereby declare that our proposal is made in good faith, without collusion or fraud and the information contained in the proposal is true and correct to the best of our knowledge and belief.

Format for Technical Proposal

S1. No.	Item Name as per requirement list	Item Name quoted by bidder	Compliance	Remarks
1.				
2.				
3.				
4.				
5.				

Thanking you,

Yours faithfully,

Signature Printed Name and Designation:
Date:
Business Address :

Seal:
Place:

Bid Price Form
(Enclosed with Commercial Bid)

Bid: Commercial Proposal Sheet (Enclosed with Commercial Bid)

Prices for Supply, Installation and Commissioning of SMART CLASS ROOM at R. B. College, Dalsingsarai-848114, Samastipur, Bihar in the manner as specified in Specifications and Bidding documents.

Bidders Proposal Reference No. and Date:

Bidders Name and Address:

Person to be contacted:

Designation:

Telephone No(s) Telex No.:

Email id:

To

The Principal,

R. B. College, Dalsingsarai-848114,

Samastipur, Bihar

Subject: Commercial Bid Proposal for Supply, Installation & commissioning of SMART CLASS ROOM

Sir,

Format for Commercial / Financial Proposal
Commercial BID

Sl. No.	Item Description	Unit Price	Qty	Amount	Tax	Total
1.						
2.						
3.						
4.						
5.						
Total Amount Rs						
Total Amount in words:						

Total amount in Rupees

1) In figure.....

2) In Words.....

Prices are inclusive of taxes & duties and all other costs.

Date.....

Signature of Bidder with seal