



**VIVEKANAND
EDUCATION SOCIETY**

**COLLEGE OF ARTS, SCIENCE &
COMMERCE (AUTONOMOUS)**

E-TENDER

FOR

**NAME OF WORK: - SETTING UP OF MOOCS RECORDING STUDIO
(DIGITAL CONTENT DEVELOPMENT ROOM) AT VIVEKANAND EDUCATION
SOCIETYS COLLEGE OF ARTS, SCIENCE AND COMMERCE (AUTONOMOUS),
CHEMBUR, MUMBAI – 400071 ON SUPPLY, INSTALLATION, TESTING AND
COMMISSIONING BASIS**

Website: <https://mahatenders.gov.in>

STANDARD BID DOCUMENT

Tender ID No.: VESASC/PMUSHA/E1

INDEX

CHAPTER NO.	DESCRIPTION
I	TENDER NOTICE
II	DETAILED TENDER NOTICE
III	METHODOLOGY OF TENDER SUBMISSION
IV	AGREEMENT FORM B-1 & CONDITIONS OF CONTRACT
V	GENERAL CONDITION OF CONTRACT
VI	SCHEDULE – "B" & RECAPITULATION SHEET
VII	ADDITIONAL SPECIFICATIONS
VII-A	ADDITIONAL SPECIFICATIONS FOR REPAIR WORK

Principal, VESASC

TENDER NOTICE

Vivekanand Education Society's College of Arts, Science & Commerce

Mobile No. 9820911809 / 9819930649

E-TENDER NOTICE

Digitally Signed & unconditional online Tender in form ``B-1" (Percentage Rate) are invited by **the Principal**, Vivekanand Education Society's College of Arts, Science & Commerce, Sindhi Society, Chembur, Mumbai-400 071. from any of the following contactors for the work as mentioned in, appropriate categories of contractors:-

e-Tender No.	Name of Works	Estimated cost	E.M.D . /Bid Security 1% of Estimated cost	Performance/ Security Deposit 2% of Estimated cost	Registration (Class) of Contractor	Tender Fee-1000+ GST 18% in Rs.	Prepaid of completion of work
1	SETTING UP OF MOOCS RECORDING STUDIO (DIGITAL CONTENT DEVELOPMENT ROOM) AT VIVEKANAND EDUCATION SOCIETYS COLLEGE OF ARTS, SCIENCE AND COMMERCE (AUTONOMOUS), CHEMBUR, MUMBAI – 400071 ON SUPPLY, INSTALLATION, TESTING AND COMMISSIONING BASIS.	Rs. 14,50,000	Rs. 14,500	Rs 29,000/- (50% initially & 50% through Bill)	-	1000.00 + 180.00 (GST)= 1180.00	4 WEEK S

Seq No	Stage Desc.	Date & Time
1	Publishing Date	04/07/2025 05:00 pm
2	Document Sale Start	04/07/2025 05:00 am
	Document Sale End	14/07/2025 05:00 pm
	Bid Submission Start	05/07/2025 09:00 am
	Bid Submission End	14/07/2025 05:00 pm
	Technical Bid Opening	16/07/2025 11:00 am

1) The Complete bidding process will be online (e-Tendering) in two bid system. All the notifications and detailed terms and conditions regarding this tender notice hereafter will be published online on website <https://mahatenders.gov.in>

2) The payment for Tender Form Fee and Earnest Money Deposit (EMD) must be made online.

3) e-Tenderer Should submit original documents (those were uploaded during bid preparation) for verification at the time of Technical Bid opening.

4) Bidder should submit information and scanned copies in **.rar or .zip** format in Technical Envelopes mentioned in Technical Offer.

5) The Principal, Vivekanand Education Society's College of Arts, Science & Commerce, Sindhi Society, Chembur, Mumbai-400 071 reserves the right to accept or reject any or all tenders without assigning any reason.

6) **Additional Performance Security** – (Only in case of tenders with premium % below estimated cost put to tender)

a) If offer quoted is upto 10 % below Estimated Cost , then Agency shall submit **Bank Guarantee /Demand Draft/FDR** of 1 % of Estimated cost put to tender, towards **Additional performance security** other than Security deposit mentioned in Tender notice. The **Bank Guarantee Demand Draft/FDR** in original should be submitted in a sealed envelope along with attested copy of solvency and Bank confirmation letter.

b) If the offer quoted is more less than 10 % below Estimated Cost , then Agency shall submit Demand Draft of amount ; which shall be worked out as "(Quoted offer in % – 10

%) + 1 %) of Estimated cost put to tender. For example, if, offer is 14 % below, then performance Security to be paid will be (14 % - 10 %) + 1 % i.e. Total 5 % of Estimated cost.

c) Regarding the Demand draft towards performance security, following guidelines are issued.

(i) Demand Draft/FDR of Additional performance security shall be issued in favour of 'The Principal, Vivekanand Education Society's College of Arts, Science & Commerce'. Demand draft shall be issued by Nationalized Bank or Scheduled Bank, within Maharashtra State.

(ii) The maturity date of Demand Draft/FDR shall be at least 3 months from date of submission of E-tender. The MICR and IFSC code shall be mentioned on Demand draft.

d) Bank guarantee shall be issued either by Nationalized/schedule bank

7) Guidelines to download the tender documents and online submission of bids can be downloaded from website <https://mahatenders.gov.in>, Help support: 1800-233-7315 E-Mail eproc.support@mahatenders.gov.in

8) **Before bidding, the contractor must visit the site.**

Principal,
Vivekanand Education Society's
College of Arts, Science & Commerce

**VIVEKANAND EDUCATION SOCIETYS COLLEGE OF ARTS, SCIENCE AND
COMMERCE (AUTONOMOUS), CHEMBUR, MUMBAI - 400071**

Terms and Conditions

Vivekanand Education Society's College of Arts, Science and Commerce (Autonomous), Chembur, Mumbai; referred to as VESASC invites open bid from the firms who have expertise in supplying, Installation, programming, testing, commissioning, training of digital recording studio through Mahatender Portal. The last date of submission of the bid is 30/06/2025 , 05.00 pm and thereafter the Technical & Financial Bid will be opened.

1. Scope of Work:

Supplying, Installation, Commissioning, Testing and Training of Studio Equipments (MOOCS RECORDING STUDIO) at Vivekanand Education Society's College of Arts, Science and Commerce (Autonomous), Chembur, Mumbai at their own cost. All hardware should carry OEM warranty.

The following is expected from the system and the bidder:

- **Video Standards** – The real-time video production must support Full HD (1080p) and 4K formats using MP4 H.264/H.265 with desired bitrate compression. It must comply with SWAYAM standards.
- **Time-Saving Real-Time Production** – The system should enable real-time mixing of the teacher and their digital teaching console to significantly reduce the need for post-production editing.
- **Multiple Switching Options** – The system must allow real-time seamless switching between various views: The teacher, the teacher with his digital teaching console, only teaching console, pre recorded videos and image slideshow, online presenter's view - during production
- **Multiple Output Options** – The final mixed live output must be viewable on secondary screen / the talent screen, a teleprompter, or both simultaneously.
- **Teleprompter Facility** – The teleprompter must be included with a pre-flipped display screen with Clean HDMI input. The teleprompter display should be compatible with final Chroma / Interactive panel mixed output and various types of video sources.
- **Teacher's Digital Input Console** – The teacher's digital input console must support various whiteboard and presentation software, with touchscreen and handwriting input capabilities.
- **Multi-Tasking Studio** – The studio must support video conferencing and should be capable of simultaneous local recording and live streaming to multiple platforms such as Facebook, YouTube, and the Institution's LMS.
- **Multi-Output System** – The live studio output should be accessible over the campus LAN network on any PC or interactive panel in classrooms, without requiring an internet connection.
- **Studio Operation** – The studio setup must be pre-configured, easy to assemble, user-friendly, and simple to operate.
- **Training** – Comprehensive training for staff and the technical team must be provided.
- **Demonstration** – Final selection and approval will be subject to a successful demonstration of all the technical specifications listed above.

2. Bidder Eligibility Criteria:

- a) The bidder must be a reputed organization in the field of eContent Production. Must have experience in eContent studio setup and should be involved in actual eContent production for higher educational institutes and Government Educational Departments. Bidder should have dedicated support team for Enterprise Call Management.
- b) On-Site support to be provided by the Bidder or the OEM. Declaration to be submitted.
- c) The bidder should be able to provide case logging procedures for both hardware and software failure.
- d) The bidder/ OEM should not quote obsolete or near line obsolete products and refurbished.
- e) The bidder should submit an Undertaking Certificate that they are not debarred / Blacklisted for Supply of Camera, Audio and Video Equipments by any State / Central Governments or Universities during the last five years.

3. Earnest Money Deposit:

Bidders shall submit, along with the Eligibility Bid, Earnest Money Deposit (EMD) of Rs. 14,940.00 (Rupees Fourteen thousand nine hundred forty only). The EMD will be submitted by way of Demand Draft/Banker Cheque in favor of The Principal, Vivekanand Education Society's College of Arts, Science and Commerce payable at Mumbai.

- a) EMD will be refunded to the selected vendor only after completion of order by the selected vendor. No interest will be paid on the EMD.
- b) The EMD of those Bidders who do not qualify for the supply of hardware, will be refunded to them without interest after the procedure for selection of vendor is completed.
- c) No Relaxations to MSEs for submission of EMD.

4. Technical Evaluation:

All the technical aspects of the bids will be evaluated for suitability and specification. Further, the institute may verify from the end users specified in the technical bid about the execution and satisfactory completion of the item quoted if required.

5. Opening of Commercial Bids:

Vivekanand Education Society's College of Arts, Science and Commerce, Mumbai, will open financial bids of only the shortlisted bidders in technical evaluation.

6. Price

- a) The price can be quoted in INR only including GST. The price quoted should be for Destination at Vivekanand Education Society's College of Arts, Science and Commerce (Autonomous), Chembur, Mumbai - 400071.
- b) The packing, forwarding, freight, insurance and clearance charges, if any extra may be quoted separately in price bid.

7. Delivery Period / Timelines:

The deliveries and installation must be completed within **4 weeks** from the date of purchase order.

8. Supply & services:

- a) The items covered by this document is required to be supplied and installed Vivekanand Education Society's College of Arts, Science and Commerce (Autonomous), Chembur, Mumbai – 400071.
- b) Vivekanand Education Society's College of Arts, Science and Commerce (Autonomous), Chembur, Mumbai, will not provide any accommodation / transportation for the engineers / representatives for attending installation, commissioning and demonstration work. It is the absolute responsibility of the principal supplier / agent to make their own arrangements.

9. Make in India Policy:

This College is following and will abide with the Public Procurement (Preference to Make in India), Order 2017 issued from time to time. The Institute will award the Contract to the Bidder whose bid has been determined to be substantially responsive as per the Order No. P-45021/2/2017-PP(BE-II) dated 16-09-2020 from Department for Promotion of Industry and Internal Trade (Public Procurement Section), Ministry of Commerce and Industry, Govt. of India.

10. After Sales Service:

The bidders should clearly state the detail address, contact number and email ids of after sales service centre in all over India in the format for Bidder Details given in the Annexure.

11. Warranty/Support:

Five year onsite comprehensive warranty (**or as mentioned in the Technical specification**) with the statement of availability of spares, Hardware, Consumables, Electronic Boards etc. for at least 3 years from the date of the installation of equipment, against any manufacturing defects and also give the warranty declaration that everything to be supplied by us hereunder shall be free from all defects and faults in material, workmanship, transportation hazards, and shall be of the highest quality and material of the type ordered, shall be in full conformity with the specifications. During the warranty period, replacement of any part of equipment's or rectification of defects of works will be free of cost.

- a) Any deviation in the material and the specifications from the accepted terms may liable to be rejected and the bidders need to supply all the goods in the specified form to the satisfaction / specifications specified in the order / contract and demonstrate at their own cost. The payments shall be made only after receiving the material in the required specifications and quality to the satisfaction of the College authorities.
- b) Downtime: During warranty period not more than 5% downtime will be permissible. For downtime exceeding penalty equivalent to 0.50% of the F.O.R. value of the equipment for every week or part thereof may be imposed. Downtime will be counted from the date and time of the filing of complaints within the business hours of the tenderer.
- c) The Vendor shall warrants that any Material supplied hereunder shall conform to the generally recognized manufacturing and safety standards of the Vendor's industry as per Indian Standard Institution (ISI) or similar standard. The Vendor's specifications on performance as detailed in the Vendor's brochures, sales literature and other specifications as may be available to the College.
- d) Vendor should provide insurance up to the delivery point (on-site and not up to the nearest international airport) and until the time of installation.
- e) Vendor shall provide at least one preventive maintenance service per year during the warranty period.

- f) In addition to any other express or implied warranties, the Vendor warrants that the material furnished pursuant to this order will be
- g) Free from defects in design except to the extent that such items comply with detailed designs provided by the College; of merchantable quality and suitable for the purposes, if any, which are stated in the tender/quotation.
- h) This warranty provision shall survive any inspection, delivery, acceptance, payment, expiration or earlier termination of this order and such warranties shall be extended to the employees, students, and users of the material. Nothing herein, however, shall limit the College's rights in law or equity for damages resulting from delivery of defective goods or damage caused during the delivery of goods or provision of services.

Rights granted to the COLLEGE in this article entitled WARRANTIES are in addition to any other rights or remedies provided elsewhere in this order or in Law.

12. Manufacturer Authorization Certificate:

Wherever Authorized Distributors / dealers are submitting the bid, Manufacturer Authorization Form (MAF)/Certificate with OEM details such as name, designation, address, e-mail Id and Phone No. required to be furnished along with the bid.

13. Indemnity:

The vendor shall indemnify, protect and save Vivekanand Education Society's College of Arts, Science and Commerce (Autonomous), Chembur, Mumbai against all claims, losses, costs, damages, expenses, action suits and other proceeding, resulting from infringement of any law pertaining to patent, trademarks, copyrights etc., or such other statutory infringements in respect of all the items supplied by them.

14. Freight and Insurance:

The items to be supplied will be insured by the vendor against all risks of loss or damage from the date of shipment till such time it is delivered at Vivekanand Education Society's College of Arts, Science and Commerce (Autonomous), Chembur, Mumbai.

15. Payment:

- a) The College through RUSA office will make 100% payment after the successfully installation, commissioning and training of the studio.
- b) Any increase or decrease in taxes, duties or prices of component, etc. will not affect the contract rates during the entire period of contract. However, GST which will be prevalent during the currency of the contract shall be payable by the College.

16. Penalty for delayed services / LD

- a) As time is the essence of the contract, delivery period mentioned in the purchase order should be strictly adhered to. Otherwise LD clause will be applied / enforced.
- b) If the supplier fails to supply, and fix the item as per specifications mentioned in the order within the due date, the supplier is liable to pay liquidated damages of 1% of order value for delay of every week or part thereof subject to a maximum of 10% beyond the due date. Such money will be deducted from any amount due or which may become due to the supplier.
- c) Vivekanand Education Society's College of Arts, Science and Commerce (Autonomous), Chembur, Mumbai, reserves the right to cancel the order in case the delay is more than 04

weeks and the contractor is not eligible for any damage from the College and contractor will forfeit his claim for EMD.

17. Jurisdiction:

The disputes, legal matters, court matters, if any, shall be subject to Courts in the Mumbai Jurisdiction only.

18. Force Majeure

a) VESASC may consider relaxing the penalty and delivery requirements, as specified in this document, if and to the extent that the delay, in performance or other failure to perform its obligations under the contract, is the result of a force majeure.

b) If the due date of submission of tender / tender opening is declared a holiday for the Institute, the due date for submission of tender / tender opening will be extended to same time on next working day.

19. Arbitration:

All disputes of any kind arising out of supply, commissioning, acceptance, warranty maintenance etc., shall be referred by either party (VESASC or the bidder) after issuance of 30 days notice in writing to the other party clearly mentioning the nature of dispute and will be referred to the arbitrator to be nominated by The Principal, VESASC, Mumbai. The Venue for arbitration shall be Mumbai.

20. Consumables/spares: All hardware & software including drivers, device interface cards/network adaptor card must be pre-installed & pre-configured in the computer /equipment provided. Licensed version of system software should be provided in CD / Pen Drive (with up-gradable version). If such system is also a part of supply.

Manual - Hard copies of instruction/operation/service manuals should be supplied. List of important Consumable/ Spares and parts having sufficient shelf life for trouble free operation of three years should also be provided.

21. Acceptance of the terms and conditions of Bid document:

The bidder has to accept all the terms and conditions of this bid document and it is made known that the bidders quoting for this bid had impliedly accepted the terms and conditions of this tender.

22. Interpretation of the clauses in the Bid Document:

In case of any ambiguity / dispute in the interpretation of any of the clause in this bid document, interpretation of The Principal, Vivekanand Education Society's College of Arts, Science and Commerce (Autonomous) shall be final and binding on all parties. The VESASC reserves the right to accept the offer in full or in parts or reject the offer summarily or partly without assigning any reasons.

23. Acceptance of Bid:

The acceptance of the bid will rest solely with The Principal, VESASC, Mumbai, who in the interest of the College is not bound to accept the lowest quotation and reserves the right to himself to reject or partially accept any or all the quotations received without assigning any reasons. The College at its discretion may change the quantity/ upgrade the criteria/ drop any item or part thereof at any time before placing the Purchase Order.

24. Bids should be valid for 60 days from the last date of opening of bids.

25. Site Visit by Bidder:

The Bidder must visit and examine location at a time to be agreed with VESASC and obtain all information on the existing processes and functioning of VESASC that may be necessary for preparing the Bid document. The Bidder may carry out this site visit as per the date and time specified in Bid schedule. The visit may not be used to raise questions or seek clarification on the Bid. The cost of such visits to the site(s) shall be at the Bidder's own expense. **The site visit report should be submitted with the tender documents.**

26. Training/installation:

- a) Installation testing: suppliers of the instrument must provide free installation, commissioning and testing of the equipment.
- b) Comprehensive training of faculty & staff after installation should be provided, wherever deemed appropriate and an update in every six months (3-4 days) for the first two years and every year (1 week) for the next three years.
- c) Along with this, it will also be mandatory to provide detailed tutorial videos regarding every operation of the studio.

This bid is also governed by General Terms and conditions on Mahatender

ELIGIBILITY CRITERIA

SI No	Description	Compliance Yes/No/N.A.	Deviation (If Any)	Remarks
1.	The bidder must be a reputed organization in the field of eContent Production. Must have experience in eContent studio setup and should be involved in actual eContent production for higher educational institutes and Government Educational Departments.			
2.	On-Site support to be provided by the Bidder or the OEM. Declaration to be submitted.			
3.	The bidder should be able to provide case logging procedures for both hardware and Software failure.			
4.	The bidder/ OEM should not quote obsolete or Near line obsolete Products and refurbished.			
5.	The bidder should submit an Undertaking Certificate that they are not debarred / Blacklisted for Supply of Camera, Audio and Video Equipments by any state / Central Governments or Universities / Colleges during the last five years.			

TECHNICAL BID**Technical Compliance Sheet** (to be filled and uploaded)

Name of the Agency:				
Office Address:				
Name and Mobile No. of contact person:				
S.No	Description	Comp-liance Yes/No/N.A.	Deviati on (If Any)	Remarks
1	Interactive Flat Panel 75 Inch with OPS Windows and Android Dual Operating System			
2	8 Feet X 12 Feet Chroma Curtain with fitting accessories			
3	Teacher's Digital Input Console with Display Pen Tab			
4	Dual Frequency Wireless Studio Mic, Collar + Headband Combo			
5	Dual Frequency Wireless Dynamic Mic			
6	4 / 6 Channel Microphone Mixer with USB			
7	USB Audio Interface			
8	Broadcast Quality 4K PTZ Camera for Studio Shoot			
9	Chroma / Interactive Panel Compatible (200 watt X 5) 5 Point Lighting Setup with Accessories			
10	Live Video Mixing System with Dual Display			
11	Talent Screen + Stand			
12	Teleprompter			

13	Touchscreen Laptop			
14	APS-C Camera for outdoor shoot			
15	Tripod Stand with dolly			
16	Mirrorless Camera Gimbal			
17	Portable Video lights			
18	Wireless Mic			
19	Video Editing System with licensed video editing software			
20	Miscellaneous Cables and Accessories USB C 4K HDMI Capture Card USB C Pendrive 64GB Jack to Male XLR Jack to Female XLR 3.5mm to Female XLR 3.5mm to Male XLR Jack to 3.5mm Cable 4K HDMI Cable 10 Mtr 4K HDMI Cable 5 Mtr 4K HDMI Cable 1Mtr Micro HDMI to HDMI Cable HDMI Coupling PPT Remote DP to HDMI DVI to HDMI			
21	5KVA Online UPS			

BIDDER INFORMATION SHEET

Name of the bidder	
Registered Office Address	
Date of Incorporation / Registration details	
PAN Number	
GST Registration Number	
Bidder's Bidding Capacity for the tendered items (As a Manufacturer/ Trader/ dealer / channel partner / system integrator, etc.)	
Address of the local office in Mumbai	
Bank Details	Account Number
	IFS Code
	Bank Name
	Branch Name
Authorized Signatory Details (Company/Firm Authorization by the Competent authority to be attached)	Name
	Designation
	Email
	Phone
Details of Contact other than Authorized Signatory	Name
	Designation
	Email
	Phone

Signature with Date and Stamp of the Bidder

BID SECURITY DECLARATION FORM

(ON Bidder Letter head)

To,

The Principal,

Vivekanand Education Society's College of Arts, Science and Commerce (Autonomous)

Chembur, Mumbai 400071.

I/We M/s. _____

_____ (Name) bid for the Mahatender Bid
No. _____ towards supply and installation of

_____ (Name of the item) declare that if we withdraw or modify our Bids either during the period of validity of bid or fail to execute the contract on award the purchase order / contract, we understand and agree that our firm will be debarred for the period of one year for further bidding of any tender of your institute. Further, we agree that your College is at liberty to intimate this debarment to all Departments/ Organizations of Government and Governmental Organizations.

Signature with Date and Stamp of the Bidder

**MANUFACTURER'S AUTHORIZATION CERTIFICATE & WARRANTY SUPPORT
DECLARATION**

(ON OEMs Letter head)

Mahatender Bid No: _____

To,

The Principal,

Vivekanand Education Society's College of Arts, Science and Commerce (Autonomous)
Chembur, Mumbai 400071.

We, _____ [name of Manufacturer], who are official manufacturers of [Insert type of goods manufactured] having factories at [insert full address of Manufacturer's factories], do hereby authorize [insert complete name of Bidder] to submit a bid the purpose of which is to provide the following goods, manufactured by us [insert name and or brief description of the goods], and to subsequently negotiate and sign the contract.

We hereby extend our full guarantee, warranty and availability of spare parts in accordance with the Terms and Conditions of Contract with respect to the Goods offered by the above firm.

Name and Designation of the Authorized Signatory

Signature of Authorized Signatory with Date and Stamp of the

FALL CLAUSE NOTICE CERTIFICATE

(On Bidder Letter Head)

Date:

Mahatender Bid No.: _____

This is to certify that we have offered the maximum possible discount to you in our Mahatender Bid No. _____ dated _____ (Please do not reveal the prices here, which will lead to outright rejection of your bid).

The prices charged for the supply under this bid should under no event be higher than the lowest prices at which the party sells the items of identical description to any other Govt. organization /PSU's/Central Govt, /State Govt. Autonomous bodies/Central/state Universities/Central/State Educational Institutions, failing which the **"FALL CLAUSE"** will be applicable. The College will look into a reasonable past period to ensure this.

In case, if the price charged by our firm is found to be more, **VESASC, Chembur, Mumbai**, will have the right to recover the excess charged amount from the subsequent/unpaid bill of the supplier.

Signature with Date and Stamp of the Bidder

ANNUAL TURNOVER STATEMENT

Financial Year	Annual Turnover (Rs.)
2021-22	
2022-23	
2023-24	

Details of the following (enclose copies for proof);

- a) IT return for the last three years
- b) Balance Sheet and Profit & Loss Account for last three years
- c) GST Registration
- d) PAN

Signature with Date and Stamp of the Bidder

UNDERTAKING - ACCEPTANCE OF TENDER TERMS

(ON Bidder Letter Head)

Date:

To,

The Principal,

Vivekanand Education Society's College of Arts, Science and Commerce (Autonomous)
Chembur, Mumbai 400071.

Sub: Acceptance of Terms & Conditions of Tender.

Name of Bid / Work: _____

Dear Sir,

1. I/ We have downloaded / obtained the tender document(s) for the above mentioned 'Tender' from the web site(s) namely ____as per your advertisement, given in the above mentioned website(s).

2. I/ We hereby certify that I/ we have read the entire terms and conditions of the tender documents (including all documents like annexure(s), schedule(s), etc.), which form part of the contract agreement and I/ we shall abide hereby by the terms/ conditions/ clauses contained therein.

3. The corrigendum(s) issued from time to time by your department/ Organization too have also been taken into consideration, while submitting this acceptance letter.

4. I/ We hereby unconditionally accept the tender conditions of above mentioned tender document(s)/ corrigendum(s) in its totality/ entirety.

5. I/ We certify that all information furnished by our Firm is true & correct and in the event that the information is found to be incorrect/ untrue or found violated, then your department/ Organization shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including that we can be debarred for a period up to two years as, per Rule 151(iii) of GFR 2017, in case of false declaration.

Yours Faithfully,

(Signature with Date and Stamp of the Bidder)

UNDERTAKING – NOT BACKLISTED BY GOVERNMENT ORGANIZATIONS

(ON Bidder Letter Head)

Date: _____

To,

The Principal,

Vivekanand Education Society's College of Arts, Science and Commerce (Autonomous)

Chembur, Mumbai 400071.

Sub: Undertaking

I hereby certify that the above firm is not in the active debarred list by any Central/State Government/Public Undertaking/Institute nor is any criminal case registered / pending against the firm or its owner / partners anywhere in India.

I also certify that the above information is true and correct in every respect and in any case at a later date it is found that any details provided above are incorrect, any contract given to the above firm may be summarily terminated and the firm may be blacklisted.

Signature with Date and Stamp of the Bidder

BILL OF QUANTITY

TECHNICAL SPECIFICATIONS			
Sr. No.	FEATURES	SPECIFICATIONS	QTY
01. Interactive Flat Panel 75 Inch with OPS			1
Approved Makes: LG, BENQ, Senses			
1	Screen Size	75 Inch	
2	Supported OS	Android and Windows	
3	Panel Technology	IPS	
4	Aspect Ratio	16:9	
5	Native Resolution	3840 X 2160 (4K UHD)	
6	Refresh Rate	60 Hz	
7	Viewing Angle	178 X 178	
8	Brightness	More than 350 nits	
9	Response Time	Less than 10ms	
10	Multiple Connectivity	USB C, Touch USB, HDMI, USB 2.0, USB 3.0, Bluetooth, Wifi, LAN, Mic In, Spk Out	
11	Android Version	14 Or Higher	
12	Android Internal Memory	64Gb or Higher	
13	Android RAM	8Gb or Higher	
14	Multi Touch Points	11 points or higher	
15	OPS Windows Version	Windows 11	
16	Windows Storage	500 GB M.2 Nvme or Higher	
17	OPS RAM	16 GB or Higher	

2. Chroma Curtain - 8 Feet X 12 Feet with fitting accessories			1
Approved Make:- Hiffin, Digitek, Rainbow			
1	Curtain Color	True Green	
2	Curtain Size	8 Feet X 12 Feet	
3	Fabric Type	Soft Fabric polyester Muslin material, Wrinkle Free, Stretchable	
4	Light transmission	Should be low	
5	Washable	Should be Hand wash or machine washable	
6.	Attachment	As per actual studio requirement Easily Attachable and detachable or foldable With wall mount or ceiling mount attachments	

3. Teacher's Digital Input Console with Display Pen Tab			1
## MICROPROCESSOR			
Approved Make:- INTEL			
1	Model	i5	
2	Generation	13	
3	Total Core	10	
4	Total Threads	16	
5	Turbo Freq	4.60 Ghz	
6	L2 Cache	More than 8 MB	
7	Maximum Supported memory	128 GB	

## RAM			
Approved Make:- G.Skill, Corsair, Kingston			
1	Specification	DDR5	
2	Capacity	16GB	
3	Speed	5200 MT/s or higher	
4	Form Factor:	288-pin UDIMM	
## M.2 NVME			
Approved Make:- Samsung, WD, Kingston			
1	Capacity	1TB	
2	Interface	PCIe Gen3 x4, NVMe 1.3	
3	Form Factor:	M.2 2280	
4	Speed	2500 MB/s or above	
## Motherboard			
Approved Make:- Asus, MSI, Gigabyte, ASRock			
1	Memory Support	2 X DDR5	
2	Memory Architecture	Dual Channel	
3	PCIe 4.0 x16 slot	Min 1	
4	PCIe 4.0 x1 slots	Min 2	
5	M.2 (Key M) slots supporting PCIe 4.0 x4 mode	Min 2	
6	SATA 6Gb/s ports	Min 4	
7	Ethernet	2.5 Gb	
8	Wi-Fi	6 (802.11 a/b/g/n/ac/ax), dual-band 2.4/5GHz	
0	Bluetooth ®	v5.3	
10	USB 3.2	Min 4	
11	USB 2.0	Min 2	

12	Audio CODEC	Surround Sound High Definition	
13	Graphics Output	4K@60Hz HDMI 2.1 compatible	
## CPU Cooler			
Approved Make:- ANT, Cooler Master			
1	Heat Pipes	6	
2	Fan	120mm RGB	
3	Noise Level	Below 26 dBA	
4	Airflow	More than 60 CFM	
## Graphic Card			
Approved Make:- Asus, MSI			
1	Interface	PCI Express x16 3.0	
2	Cuda Core	896 or higher	
3	Memory	4 GB GDDR6	
4	Memory Bus	128 Bit	
5	Memory Speed	12Gbps or Higher	
6	Display Output	3 X 4K@60Hz HDMI 2.1 compatible	
## SMPS			
Approved Make:- Cooler Master, Ant ESports			
1	Wattage	550 Watt	
2	Input rated voltage	230 V AC	
3	Connector	1 X ATX 24, 1 X EPS 4X4, 2 X PCI-e 6+2, 6 X SATA	
4	Protections	OVP, OPP, SCP, UVP, OTP	
5	Noise Level	Not more than 30 dBA	
## Cabinet			
Approved Make:- Cooler Master, Ant Esports			
1	Motherboard Compatibility	ATX, Mini ATX, Micro ATX	
2	Fan Support	Min. 3	

3	Front Header	USB C, USB 3.0, USB 2.0, Mic In, Headphone, Power Button	
4	Material	ABS + SPCC + Tempered Glass	
## Keyboard Mouse			
Approved Make:- Logitech, HP, Dell			
1	Connectivity	Wireless	
## PC Speaker			
Approved Make:- Livetech , Logitech , Rapoo			
1	Rated Power	10 to 20 Watt	
2	Configuration	2.0	
3	Power Mode	USB	
4	Audio I/P	3.5mm Jack	
## Graphics Pen Tablet			
Approved Make:- Wacom, Huion, XP-Pen			
1	Display Size	15.6" Inch or above IPS Display	
2	Display Resolution	Full HD - 1920 X 1080	
3	Color accuracy	90% or above	
4	Pressure Sensitivity	8192 Levels: Professional-grade pressure detection, smoother gradients and control.	
5	Connectivity	Usb C / HDMI	
6	Shortcut Keys	customizable shortcut keys with roller	
## Licenced Software			
1	OS	Windows 11 Pro	
2	Application software	MS OFFICE Latest version	

4. Dual Frequency Wireless Studio Mic, Collar + Headband Combo	1
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Approved Make: - Studio Master, Behringer, Xtreme Acoustics			
1	Mic Type	Collar + small size Skin Color headband interchangeable system	
2	Frequency Type	VHF	
3	Wireless Distance	50 Feet or High	
4	Modulation	FM	
5	Signal to Noise Ratio	>90dB	
6	Cable Output	Male XLR	
7	Battery Type	Rechargable	

5. Dual Frequency Wireless Studio Dynamic Mic			1
Approved Make: - Studio Master, Behringer, Xtreme Acoustics			
1	Mic Type	Hand Held Dynamic	
2	Mic Stand	Mini Table top	
3	Frequency Type	VHF	
4	Wireless Distance	50 Feet or High	
5	Modulation	FM	
6	Signal to Noise Ratio	>90dB	
7	Cable Output	Male XLR	
8	Battery Type	Rechargeable	

6. Microphone Mixer with USB support			1
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Approved Make: - Studio Master, Behringer, Yamaha, Xtreme Acoustics			
1	Mic Input	4 or more	
2	Line Input	2 or More	
3	USB Input	USB and Bluetooth	
4	Phantom Power	+48V	
5	Effect processing	DSP	
6	Aux Out	1 or more	
7	Tone Control	Low, Mid, High	
8	Mic fader type	Slider	
9	Output Interface	Jack, XLR and USB	

7. USB Audio Interface			1
Approved Make:-Focusrite, PreSonus, Behringer, Steinberg-Yamaha,			
1	Mic / Line Input	2	
2	Mic Input	XLR	
3	Line Input	Jack TRS	
4	Phantom Power	+48V	
5	Gain Control	Separate for each input	
6	Sample Rates	44.1 kHz to 192 kHz	
7	Headphone	TRS	
8	Output Format	TRS + USB	

8. Broadcast Quality 4K PTZ Camera for Studio Shoot			1
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Approved Make:- Sony, Panasonic, Videocast, Datavideo			
1	Resolution	Ultra High Definition 4K (3840X2160)	
2	FPS	30 or Higher	
3	Sensor	1/2.8 Progressive CMOS sensor or higher	
4	Megapixel	8MP or Higher	
5	Optical Zoom	20X or Higher	
6	Output Options	HDMI / SDI / LAN	
7	Color space / Compression Standards	YUV / H.264 / MJPEG	
8	Network Protocol	ONVIF, SRT, RTSP, NDI® HX2	
9	Control Protocols	VISCA (VISCA Over IP), PELCO P/D	

9. Green Screen Chroma & Interactive Panel Compatible (200 watt X 5) 5 Point Lighting Setup with Accessories			5
Approved Make:- Godox, Digitech , Kodak			
1	Wattage	200 Watt Min	
2	Type	LED	
3	Color	Bi-Color	
4	Brightness Control	Dimmable 0 % to 100 %	
5	CRI	95 or above	
6	Color Temperature	Adjustable between 3200K and 5600K	
7	Mount Type	Bowens Mount (compatible with various modifiers)	
8	Control	Wireless Control	
9	Modifiers	Softbox, Reflectors, Snoots	
10	Mount	Ceiling, Wall, Stand	

10. Live Video Mixing System with Dual Display			1
## MICROPROCESSOR			
Approved Make:- INTEL			
1	Model	i7	
2	Generation	13	
3	Total Core	20	
4	Total Threads	28	
5	Turbo Freq	5.4 Ghz	
6	L2 / L3 Cache	More than 28 MB	
7	Maximum Supported memory	128 GB	
## RAM			
Approved Make:- G.Skill, Corsair Vengeance,			
1	Specification	DDR5	
2	Capacity	32GB	
3	Speed	5200 MT/s or higher	
4	Form Factor:	288-pin UDIMM	
## M.2 NVME			
Approved Make:- Samsung, WD, Kingston			
1	Capacity	1TB	
2	Interface	PCIe Gen3 x4, NVMe 1.3	
3	Form Factor:	M.2 2280	
4	Speed	5000 MB/s or above	
## SSD / NVME			
Approved Make:- Samsung, WD, Kingston			
1	Capacity	2 TB	

2	Interface	PCIe Gen3 x4, NVMe 1.3 / SATA	
3	Form Factor:	M.2 2280 / 2.5"	
4	Speed	5,000 MB/s or above	
5			

Motherboard

Approved Make: - Asus, MSI, Gigabyte			
1	Memory Support	4 X DDR5	
2	Memory Architecture	Dual Channel	
3	PCIe 4.0 x16 slot	Min 2	
4	PCIe 4.0 x1 slots	Min 2	
5	M.2 (Key M) slots supporting PCIe 4.0 x4 mode	Min 4	
6	SATA 6Gb/s ports	Min 4	
7	Ethernet	2.5 Gb	
8	Wi-Fi	6 (802.11 a/b/g/n/ac/ax), dual-band 2.4/5GHz	
9	Bluetooth ®	v5.3	
10	USB 3.2	Min 4	
11	USB 2.0	Min 2	
12	USB C	Min 2	
13	Audio CODEC	Surround Sound High Definition	
14	Graphics Output	4K@60Hz HDMI 2.1 compatible X 2	

CPU Cooler

Approved Make:- ANT, Cooler Master			
1	Technology	Liquid Cool	

2	Fan	120mm RGB X 3	
3	Noise Level	Below 35 dBA	
4	Material	Copper	
## Graphic Card			
Approved Make:- Asus, MSI, Gigabyte			
1	Interface	PCI Express x16 3.0 / PCI Express® Gen 4.0 x8	
2	Cuda Core	2560 or higher	
3	Memory	8 GB GDDR6	
4	Memory Bus	128 Bit	
5	Memory Speed	12Gbps or Higher	
6	Display Output	4 X 4K@60Hz HDMI 2.1 compatible	
## SMPS			
Approved Make:- Cooler Master, EVGA, Antec			
1	Wattage	500 Watt to 750 Watt	
2	Input rated voltage	230 V AC	
3	Connector	1 X ATX 24, 1 X EPS 4X4, 2 X PCI-e 6+2, 6 X SATA	
4	Protections	OVP, OPP, SCP, UVP, OTP	
5	Noise Level	Not more than 30 dBA	
## Cabinet			
Approved Make:- Cooler Master, Antec, Ant Esports,			
1	Motherboard Compatibility	ATX, Mini ATX, Micro ATX	
2	Fan Support	Min. 3	
3	Front Header	USB C, USB 3.0, USB 2.0, Mic In, Headphone, Power Button	
4	Material	ABS + SPCC + Tempered Glass	
## Keyboard Mouse			
Approved Make:- Logitech, HP, Dell			
1	Connectivity	Wireless	

## PC Speaker			
Approved Make:- Livetech , Logitec			
1	Rated Power	10 to 20 Watt	
2	Configuration	2.0	
3	Power Mode	USB	
4	Audio I/P	3.5mm Jack	
## HDMI Capture Card			
Approved Make:- Elgato, AVerMedia, Blackmagic Design			
1	Resolution	4k 3840 X 2160	
2	FPS	30 for 4K / 60 for FullHD	
3	HDMI I/p	1 x HDMI Type A connector (HDMI 1.4b standard)	
4	HDMI Loop O/p	1 x HDMI Type A connector (HDMI 1.4b standard)	
5	HDMI Video Sampling	RGB 4:4:4 in HD, YUV 4:2:2 in Ultra HD	
6	Color Space:	REC 601, REC 709	
## Display Screen			2
Approved Make:- HP , LG, Dell			
1	Display Size	Diagonal 24 Inch or above	
2	Display Resolution	Full HD - 1920 X 1080 or above	
3	Panel Technology	IPS	
4	Aspect Ratio	16:9	
5	Connectivity	HDMI / DP	
6	Color Gamut	99% sRGB	
## Licenced Software			
1	OS	Windows 11 Pro	

11. Talent Screen + Stand			1
Approved Make:-LG, Dell, HP			
1	Display Size	Diagonal 24 Inch or above	
2	Display Resolution	Full HD - 1920 X 1080 or above	
3	Panel Technology	IPS	
4	Aspect Ratio	16:9	
5	Connectivity	HDMI / DP	
6	Color Gamut	99% sRGB	
7	Screen Rotation	Tilt Up / Tilt Down - 30 Degree	
8	Stand Max Height	6 Feet	
9	Stand Min Height	3 Feet	

12. Teleprompter			1
Approved Make: - Mogx pro, Prompter People, K- Bridge, Edu-Corp			
1	Designed for	PTZ Camera	
2	Display Size	24 Inch	
3	Stand	With height adjustable heavy stand	
4	Video Input	HDMI / VGA	
5	Display Orientation	Pre-Flipped and rotated	
6	Display Resolution	1920 X 1080	
7	Refresh Rate	60 Hz	
8	Glass Type	Clear view, Beam splitter	

9	Glass Angle	Adjustable Glass Angle 30 to 60 Degree	
10	Aspect Ratio	16:9	
11	Brightness	3500 cd/m	

13. Laptop			1
Approved Make: - HP, Dell, Lenovo			
1	OS/Software	Windows 11 License / Office License	
2	Microprocesso r	i3	
3	Generation	13	
4	SSD	512 Gb	
5	RAM	8 Gb	
6	Touchscreen	Yes	
7	Stylus	Yes	
8	Ports	HDMI, USB 3.0, LAN, USB C	
9	Display Resolution	Full HD, Touchscreen	
10	Display Technology	IPS	

14. APS - C Mirrorless camera			1
Approved Make: - Sony, Canon, Nikon, Fujifilm			
1	Sensor	APS-C CMOS	
2	Resolution	Above 26 MP	
3	Max Video Resolution	4K	

4	Focus	Advance Autofocus	
5	Color	4:2:2 10Bit	
6	Audio Input	Microphone Socket	
7	Output	HDMI / USB C	
8	Lens type	Interchangeable	
9	Primary Lens	16–50 mm Power Zoom Lens or equivalent	
10	Additional Filter	UV + ND Filter	
11	Memory Card	128 GB UHS-II SDXC V60	

15. Tripod Stand with dolly			1
Approved Make: - Manfrotto, Libec, E-Image, Miliboo			
1	Section	Two-Stage Aluminum Tripod System	
2	Payload	6 kg or better	
3	Ball diameter	75mm or better	
4	Section	2 STAGE	
5	Dolly	Compatible Dolly	

16. Mirrorless Camera Gimbal			1
Approved Make: - DJI, Zhiyun, Moza			
1	Type	3-Axis Handheld Gimbal Stabilizer	
2	Design	Single-hand grip	
3	Payload Capacity	2.0 KG	

4	Stabilization Axis	3 (Pitch, Roll, Yaw)	
5	Display	1.4-inch Full-Color Touchscreen	
6	Shooting Mods	Native vertical and horizontal shooting	

17. Portable Video Light			2
Approved Make:- Hiffin, Simpax, Digitek, Godox			
1	Wattage	100 Watt Min	
2	Type	LED	
3	Brightness Control	Dimmable 0 % to 100 %	
4	CRI	95 or above	
5	Color Temperature	Adjustable between 3200K and 5600K or RGB	
6	Mount Type	Bowens Mount (compatible with various modifiers)	
7	Control	Wireless Control	
8	Modifiers	Softbox, Reflectors, Snoots	
9	Mount	Stand or Handheld	
10	Power Source	AC or Battery	

18. Wireless Mirrorless Camera Mic			1
Approved Make: - Godox, Hollyland, Rode			
1	Transmitters (TX)	2 units with built-in omnidirectional microphones	
2	Receivers (RX)	3.5mm TRS output, Lightning connector receiver for iOS devices, USB-C connector receiver for Android devices	

3	Sample Rate / Bit Depth	48 kHz / 24-bit	
4	Frequency Response:	20 Hz – 20 kHz	
5	SNR	Less than 70dB	
6	Noise Cancellation	Environmental Noise Cancellation technology	
7	Non-Line-of-Sight Transmission Range	Not less than 100 feet.	
8	Operating Time (full charged)	8 to 10 Hr	

19. Video Editing System with licensed video editing software			1
## MICROPROCESSOR			
Approved Make:- INTEL			
1	Model	i7	
2	Generation	13	
3	Total Core	20	
4	Total Threads	28	
5	Turbo Freq	5.4 Ghz	
6	L2 / L3 Cache	More than 28 MB	
7	Maximum Supported memory	128 GB	
## RAM			
Approved Make: - G.Skill, Corsair Vengeance			
1	Specification	DDR5	
2	Capacity	32GB	
3	Speed	5200 MT/s or higher	
4	Form Factor:	288-pin UDIMM	
## M.2 NVME			

Approved Make:- Samsung, WD, Kingston			
1	Capacity	1TB	
2	Interface	PCIe Gen3 x4, NVMe 1.3	
3	Form Factor:	M.2 2280	
4	Speed	5000 MB/s or above	
## SSD / NVME			
Approved Make: - Samsung, WD, Kingston			
1	Capacity	2 TB	
2	Interface	PCIe Gen3 x4, NVMe 1.3 / SATA	
3	Form Factor:	M.2 2280 / 2.5"	
4	Speed	5,000 MB/s or above	
## Motherboard			
Approved Make: - Asus, MSI, Gigabyte, ASRock			
1	Memory Support	4 X DDR5	
2	Memory Architecture	Dual Channel	
3	PCIe 4.0 x16 slot	Min 2	
4	PCIe 4.0 x1 slots	Min 2	
5	M.2 (Key M) slots supporting PCIe 4.0 x4 mode	Min 4	
6	SATA 6Gb/s ports	Min 4	
7	Ethernet	2.5 Gb	
8	Wi-Fi	6 (802.11 a/b/g/n/ac/ax), dual-band 2.4/5GHz	
9	Bluetooth ®	v5.3	
10	USB 3.2	Min 4	
11	USB 2.0	Min 2	

12	USB C	Min 2	
13	Audio CODEC	Surround Sound High Definition	
14	Graphics Output	4K@60Hz HDMI 2.1 compatible X 2	
## CPU Cooler			
Approved Make: - ANT, Cooler Master			
1	Technology	Liquid Cool	
2	Fan	120mm RGB X 3	
3	Noise Level	Below 35 dBA	
4	Material	Copper	
## Graphic Card			
Approved Make: - Asus, MSI, Gigabyte			
1	Interface	PCI Express x16 3.0 / PCI Express® Gen 4.0 x8	
2	Cuda Core	2560 or higher	
3	Memory	8 GB GDDR6	
4	Memory Bus	128 Bit	
5	Memory Speed	12Gbps or Higher	
6	Display Output	4 X 4K@60Hz HDMI 2.1 compatible	
## SMPS			
Approved Make:- Cooler Master, EVGA, Antec			
1	Wattage	500 Watt to 750 Watt	
2	Input rated voltage	230 V AC	
3	Connector	1 X ATX 24, 1 X EPS 4X4, 2 X PCI-e 6+2, 6 X SATA	
4	Protections	OVP, OPP, SCP, UVP, OTP	
5	Noise Level	Not more than 30 dBA	
## Cabinet			
Approved Make:- Cooler Master, Antec, Ant Esports			
1	Motherboard Compatibility	ATX, Mini ATX, Micro ATX	

2	Fan Support	Min. 3	
3	Front Header	USB C, USB 3.0, USB 2.0, Mic In, Headphone, Power Button	
4	Material	ABS + SPCC + Tempered Glass	
## Keyboard Mouse			
Approved Make: - Logitech, HP, Dell			
1	Connectivity	Wireless	
## PC Speaker			
Approved Make: - Livetech, Logitech			
1	Rated Power	10 to 20 Watt	
2	Configuration	2.0	
3	Power Mode	USB	
4	Audio I/P	3.5mm Jack	
## Display Screen			
Approved Make: - LG, Dell, HP			
1	Display Size	Diagonal 24 Inch or above	
2	Display Resolution	Full HD - 1920 X 1080 or above	
3	Panel Technology	IPS	
4	Aspect Ratio	16:9	
5	Connectivity	HDMI / DP	
6	Color Gamut	99% sRGB	
## Licensed Software			
1	OS	Windows 11 Pro	
2	Video Editing	Filmora Latest	

20. Miscellaneous Cables and Accessories			Quantity
Approved Make: - High quality Material			
1	4K HDMI to USB-C / USB 3.0 Capture Card		4

2	USB-C / USB 3.0 High Speed Pendrive 64 GB	2
3	Jack to Male XLR - 3Feet (2) / 6 Feet (2)	4
4	Jack to Female XLR - 6Feet (2) / 20 Feet (2)	4
5	3.5mm ep to Female XLR - 6Feet (2) / 15 Feet (2)	4
6	High Quality 4K HDMI Cable - 10 Mtr	4
7	High Quality 4K HDMI Cable - 5 Mtr	4
8	High Quality Micro HDMI to HDMI	2
9	High Quality HDMI Coupling	4
10	PowerPoint Remote	1
11	Teleprompter Remote	1
12	DP to HDMI	3
13	DVI to HDMI	3

21. 3 KVA UPS			1
Approved Make: - Microtek, Luminous, APC, AVO e			
1	Mode	Online	
2	Capacity	5000VA / 4000 W	
3	Nominal Voltage	200 - 240 VAC	
4	Input frequency deviation	47 to 63 Hz	
5	Transfer Time	Zero	
6	Bypass time	Less than 4ms	

7	Waveform	Pure Sine Wave	
8	Expected full load backup	Min 1Hr	

Installation Materials		
All Cables and Connectors should support for High Definition Signal flow & operation, MDUs, HDMI Cables, etc. as per the proposed design.		1
Installation, Commissioning and Three Days operational and Maintenance training at Site.		1
Other Work		
1	Providing and Laying of hall/Studio lights wiring.	
2	Providing and Laying of Power wiring in PCR and in Studio.	
3	Providing and fixing of Light sockets, MCB Boxes, Power Points.	
4	Providing and fixing of 2'X2' LED lights in the Classroom Hall/ Studio, PCR	
5	Providing and fixing of Studio lighting Grids.	
6	2 8m rod and 12m*10m green screen for studio	
7	Any other work as per requirement.	

Indicative recording studio layout

Room dimension: 25 feet length X 8 feet wide X 10 feet height

25 FEET	
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I N T E R A C T I V E P A N N E L	C U R T A I N		8 F E E T
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