

University of Delhi
VASUNDHARA ENCLAVE, DELHI-110096
Email: - info@mac.du.ac.in

TENDER NO. MAC/MEDIA LAB/08

Dated: - 29.08.2023

(1) NOTICE INVITING TENDER

E-Tender document for Supply, Installation, Testing & Commissioning of Studio at Maharaja Agrasen College, Vasundhara Enclave, Delhi-110096

Maharaja Agrasen College invites online bids (under Two Bids System) for Supply, Installation, Testing and Commissioning of Studio at Maharaja Agrasen College, Vasundhara Enclave, Delhi-110096 with "Part-A" as Technical Bids and "Part B" as Financial Bids. The details are as follows: -

Estimated Value 82 lakhs (Approx.)

S.No.	Name of the Item	Qty.	Amount of E.M.D.	Tender Fee
1	SITC of Handheld Camcorder	3	1.5 Lakhs	Nil
1	SITC of DSLR Mirrorless	1	- 1.5 Lakiis	
2	SITC of Tripod with Dolly	1		
2	Heavy Duty Tripod Kit with Dolly	1		
	Light Weight Tripod Kit with Dolly	2	-	
	SITC of Steadycam	1	_	
3	SITC of Teleprompter	1	_	
4	SITC of Vision Mixer/ Production	1		
5	SITC of LED Display	6		
6	SITC of Converter SDI-HDMI	3		
7	SITC of Monitor Speaker	5		
8	SITC of Professional lavalier microphone	6	_	
9	SITC of Professional Headphone	4		
10	SITC of Ear Piece (Compatible with	3		
	Talkback system SN 11)			
11	SITC of Talkback System	1		
12	SITC of SPG & Video Router with power	1		
	supply for redundant operation			
13	SITC of Digital Glues : Distributer,	3		
	Embedder / Dembedder etc.			
14	SITC of HDD Recorder	1		
15	SITC of Desktop Computer for Editing	2		
	Machine			
16	SITC of Video Editing software	2		
17	SITC of Audio Editing Software	1		
18	SITC of Audio Mixer	1		
19	SITC of Voice Over Equipment	1		



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20	SITC of Studio Lights	12
21	Installation Materials	Lot
22	SITC of Bar Chairs	5
23	SITC of Chairs	12
24	SITC of Air Conditioner (Cassette)	2
25	SITC of CCTV Camera with 8 Channel	8
	DVR	
26	SITC of Online UPS	1
27	Partition & Acoustics Work with interior	Lot
	as per attached layout	

Important Dates (to be filled by office)

Date of Publishing - 29.08.2023

Bid Document Download Start Date - 29.08.2023

Bid Submission Start Date (online) - 29.08.2023

Pre-bid meeting and Site Visit - 06.09.2023

Bid Submission End Date (online) - 19.09.2023

Date of Technical Bid Opening (online) - 20.09.2023

EMD Amount of Rs. 1.5 Lakhs to be submitted in the form of NEFT/RTGS.

The details of Account are as under: -

Account No. 481701213
 IFSC: - IDIB000M102
 Bank Name: - INDIAN BANK

• Beneficiary: - Principal, Maharaja Agrasen College

- Site Visit At the bidders expenses
- Manual bids shall not be accepted. The bid shall be submitted online only at Central Public Procurement Portal Website: http://eprocure.gov.in/eprocure/app
- The Competent Authority reserves the right to reject any or all the bids without assigning any reason thereof. The decision of the Competent Authority of the College shall be final and binding. The Competent Authority for reasons not to be recorded in writing may at its discretion foreclose the said tender and its decision shall be binding on all parties.

Principal (Offg.)



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(2) Terms and Conditions of the Tender

- 1. All offers should be written in the English and price should be written in both, figures and words. The tenderer shall certify that the rates being quoted are not higher than those quoted for any Govt. Deptt. or Institution or any organization during last one year.
- 2. The duly constituted committee appointed by the competent authority of the college reserves the right to select some items (in single or multiple units) and reject the others or all items mentioned in the Schedule. The same committee will also reserve the right to revise or alter the specifications before acceptance of any tender with prior notice on the College Website and Central Public Procurement Portal (CPPP) at www. eprocure.gov.in.
- 3. Incomplete tenders, amendments and additions to tender after opening are liable to be ignored and rejected.
- 4. The Bid shall be treated as a 2 Bid System. The Technical Bid will be considered for applicants whose Earnest Money Deposit (EMD) is found in order. Financial Bid shall be opened for those bidders who have qualified in Technical Evaluation.
- 5. **Changes/Amendment:** At any time prior to the deadline for submission of tender, the College may amend the tender documents by issuing addendum/corrigendum. The College shall have the right at any time, by written notice, in the form of an amendment order, to make any changes, if deems necessary, including, but not limited to, changes in specifications, design, delivery, testing methods, packing or destination. Price increase, extension of time for delivery and change in quantity shall not be binding on the college unless sufficiently justified by vendor and accepted by the college in a form of amendment/modified order issued and signed by the competent authority of the college.
- 6. **Bid Validity** Bids should be valid for a period of 90 days from the date of opening of price bid.
- 7. **Withdrawal of bids**: No bidder will be allowed to withdraw its bid in the interval between the deadline of submission of bids and expiration of period of bid validity. Withdrawal of bid during this period will result in forfeiture of the bidder's bid security (EMD) and other sanctions.
- 8. **Bid Security:** Bid Security should remain valid for a period of 45 (Forty Five) days beyond the final bid validity period. The Bid Security can be submitted in the form of an account payee demand draft, fixed deposit receipt, or banker's cheque. The MSEs are provided tender documents free of cost and are exempted from payment of earnest money, subject to furnishing of relevant valid certificate for claiming exemption. A bidder's Bid Security will be forfeited if the bidder withdraws or amends its/his tender or impairs or derogates from the tender in any respect within the period of validity of the tender or if the successful bidder fails to furnish the required Performance Security within the specified period. Bid securities of the unsuccessful bidders shall be returned to them at the earliest after expiry of the final bid validity period and latest by the 30th day after the award of the contract. Bid Security shall be refunded to the successful bidder on receipt of a performance security.
- 9. **Performance Security:** On receipt of notification of award of supply/work order from the College, the successful Bidder within 14 days shall furnish the performance security at 3% of the cost of the Tender Award Value in the form of Bank Guarantee issued/confirmed from any of commercial bank



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in India in an acceptable form. Performance security should remain valid for a period of 60 days beyond the date of completion of all contractual obligation of the supplier, including warranty obligations. The Performance Security will be forfeited and credited to the college account in the event of a breach of contract by the contractor. It will be refunded to the contractor without interest, after he duly performs and completes the contract in all respects but not later than 60(sixty) days of completion of all such obligations including the warranty under the contract. Failure of the successful bidder to submit the performance security shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid security, in which event the college may make the award to the next lowest evaluated bidder on same rate or call for new bids.

- 10. **Terms of Payment:** 80% of the Tender Award value shall be released on submission of proof of delivery of complete equipment/stores (stores/consignee receipt), inspection report and on certification of satisfactory installation of the equipment at the consignee's premises and after "ensuring verification of the Performance Security" @ 5% of the Purchase Order value. Balance 20% of the payment shall be released upon successful Test run of the equipment at least for a month and after ensuring that already furnished Performance Security is valid for a period of 60 days beyond the date of completion of all contractual obligations of the bidder / supplier including comprehensive maintenance warranty obligations.
- 11. **Delivery Period**: The SITC should be completed at the designated place within 60 days from the date of award of the contract, failing which .25 percent of the tender award value will be deducted per week.
- 12. **Inspection and Acceptance:** Material procured from vendor shall be inspected and tested by the college or its designee at vendors cost. If deemed necessary by the college, the Vendor shall provide without charge, all reasonable facilities and assistance for such inspection and test. Any inspection records relating to Material covered by this agreement shall be made available to the College during the performance of the order.
 - **a.** If any Material covered by this agreement is defective or otherwise not conforming to the requirements of this agreement, the college may, by written notice to the Vendor:
 - (i) rescind the purchase/supply order as to such non- conforming Material
 - (ii) accept such material at an equitable reduction in price;
 - (iii) reject such non-conforming material and require the delivery of suitable replacements
 - b. If the vendor fails to deliver suitable replacements promptly, the College, with notice of seven business days, may replace or correct such material and charge the vendor the additional cost occasioned thereby, or terminate this order for default



- c. No inspection (including source inspection) test, approval (including design approval) or acceptance of material shall relieve the Vendor from responsibility for defects or other failures to meet the requirements of this order. Rights granted to the College in this article entitled INSPECTION is in addition to any other rights or remedies provided elsewhere or in Law.
- 15. **Selection of Bidder**: For the purpose of selection of the bidder, a two stage bidding process will be followed. The response to the tender should be submitted in two parts viz. Technical Bid & Financial Bid.
- **A. Technical Bid:-** Technical bid should contain information regarding the company/firm registration details, Authorization letter, Clientele list (List of Users), Performance certificate from clients, self-declaration for not blacklisted, business turnover, experience and other details of the firm to judge the suitability of the bidder. Bidder must ensure the following conditions whole going for the bidding:-
 - (I) SPECIFICATIONS: Specifications are basic essence of the product/contract. It must be ensured that the offers must be strictly as per our specifications mentioned at Annexure-"A" at technical specification section. At the same time it must be kept in mind that merely copying our specifications in the quotation shall not make the parties eligible for consideration of the quotation. A quotation has to be supported with the printed technical leaflet/literature of the quoted model of the item by the quoting party/manufacturer and the specifications mentioned in the quotation must be reflected/supported by the printed technical leaflet/literature. Therefore, the model quoted invariably be highlighted in the leaflet/literature enclosed with the quotation and should be furnished as per the annexure "B (1). Failing which bid will not be considered.
 - (II) Non-compliance of the above shall be treated as incomplete/ambiguous and the bid can be ignored without giving an opportunity for clarification/negotiation etc. to the quoting party.
 - (III) OEM should be internationally/Nationally reputed Branded Company.
 - (IV) A write up on service and maintenance capability, mitigation of risks or breakdown and replacement capability, with the escalation support matrix suggested for the College. Vendors must indicate their sales and support service center in India and their plan to address issues about services, maintaining minimum service inventory etc.
 - (V) Signed & Stamped compliance sheet of the technical specification of the offered equipment with technical printed literature must be enclosed with the technical bid in the prescribed format.



- (VI) Clientele list (List of the institutes/organizations, where the similar order (media Lab, includes studio, PCR, MCR, Editing Facility, Audio recording room etc.) has been executed during the last three years) and work done list. Supporting documents (couple of orders without any alteration/modification, copies of installation report and performance certificate) must be enclosed. Past Performance of the Vendors will be judged at the time of Technical Evaluation.
- (VII) Average Annual turnover for the last three successive years should be equal or greater than 75 Lakhs_INR for the authorized dealer (duly certified by the Chartered Accountants).
- (VIII) Self-attested photocopy of annual turnover, IT Certificate, Audited Balance Sheet, etc.
- (IX) The bidder/OEM self-declaration stating that he/she is not banned/debarred or black listed by any Central/State Govt. of India/PSU/Organizations/Institutes in India or abroad in prescribed format.
- (X) DD for Tender Fee & EMD amount as applicable
- (XI) College reserves the right to carry out a technical inspection and performance evaluation (benchmarking) of the offers, made by shortlisted vendors. The shortlisted vendors may be asked to come and give out presentation / demonstration.
- (XII) Short listing of Vendors: College will shortlist technically qualifying vendors and the financial bid of only those vendors will be opened. College reserves the right to decide whether the items being quoted are as per the requirement of the College and are of standard/leading brands in the market. College reserves the right to decide which offer best suits the requirement of the College. Further, after opening financial bids of the short listed tenders, if there is a discrepancy between word and figure, the amount indicated in words will prevail.
- **B. Price Bid/ Financial Bid:** Financial bid should contain price of the material required to be supplied as per Price Schedule "Annexure C" as supplied by the College along with tender form, duly filled and signed by the authorized person. (Annexure C- Part A + Part B)
- C. Award of work: work will be awarded to L1 firm on the basis of total of Part A and Part B of financial Bid. (Annexure –C)
 - **16. Installation and Commissioning:** Free of cost at College. The OEM must ensure timely installation of the complete unit with necessary support to the indenter.
 - 17. Conditional Offer will not be accepted.



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18. Rejection of bids:-

- (a) If bidders give wrong information in their bid, College reserves the right to reject such bids at any stage and forfeit the Earnest Money Deposit / Performance Bank Guarantee and cancel the order, if awarded.
- (b) If the technical offer contains any price information the offer will be summarily rejected.
- (c) Canvassing in any form in connection with the tender is strictly prohibited and the bids submitted by the bidder who resort to canvassing are liable for rejection.
- (d)Unsigned tenders/bids, unattested corrections and over writing by bidders are also liable for rejection.
- (e) Bids submitted without supporting documents as mentioned or required to submit with bids are liable to be rejected.
- (f) The Tenderers must confirm in their bid acceptance in full of the terms and conditions in this enquiry. Any non-acceptance or deviations from the terms and conditions must be clearly brought out. However, tenderers must note carefully that any conditional offer or any deviation from the terms and conditions of this enquiry may render /liable the Quotation for rejection.
- 19. **Liquidated damages for delayed supply:** If vendor fails to deliver any of or all products or does not perform the services within the period specified in the contract, the College reserves the right to, without prejudice to its other remedies under the contract, deduct from the bill, a sum equivalent to 1% of the price of undelivered stores at the agreed price for each week to maximum limit of 10% of the value of stores so undelivered. Once maximum is reached, the second party (College) may consider termination of contract.
- 20. **Assignment / Subcontracting /sublet:** The Vendor shall not assign the order received, any rights under this agreement or to become due hereunder neither delegated nor subcontracted /sublet any obligations or work hereunder without the prior written consent of the College.
- 21. **Cancellations of tender:** The College reserves Right to Accept any Bid and to Reject any Or all Bids: The Purchaser also reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to award of Contract, without thereby incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidder or bidders of the grounds for the Purchaser's action.
 - (a) fails to comply with any term or condition of this order including, but not limited to, delivery terms; or
 - (b)appoints a receiver, liquidator or trustee in bankruptcy or other similar officer over any or all of its property or assets; or
 - (c) files a voluntary petition in bankruptcy; or
 - (d)has had filed against it an involuntary petition in bankruptcy which remains in effect for thirty (30) days; or
 - (e) voluntarily ceases trading; or



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- (f) merges with or is acquired by a third party; or
- (g)Assigns any of its rights or obligations under the Order to a third party without the College's prior written consent

Upon the occasion of any one of the aforesaid and in addition to any remedies which the College may have in Law or in Equity, the College may also cancel this order or any outstanding deliveries hereunder by notifying the Vendor in writing of such cancellation and the Vendor shall thereupon transfer title and deliver to the College such work in progress or completed material as may be requested by the College. The College shall have no liability to the Vendor beyond payment of any balance owing for Material purchased hereunder and delivered to and accepted by the College prior to the Vendor's receipt of the notice of termination, and for work in progress requested for delivery to the College.

22. Warranty:-

- (a) Minimum Two year warranty of each product as specified in Annexure A, or as per provided by the OEM, whichever is higher. During the warranty period, replacement of any part of items or rectification of defects of works will be free of cost.
- **(b)Downtime**: During warranty period not more than seven days for major faults and 48 Hours for minor faults or case to case finalized by competent authority of Maharaja Agrasen college downtime will be permissible. For downtime exceeding penalty of Rs. 1000/- per day shall be imposed.
- (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:-
- (i) 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.
- (ii) 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.
- (iii) 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.



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23. Consumables/spares: - All hardware & software- including drivers, device interface cards/network adaptor card must be pre-installed & pre-configured in the computer /equipment provided as per site requirement.

Licensed version of system software should be provided in CD/credentials/password (with upgradable 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.

- 24. Training and Installation: -
- (a) **Installation testing:** suppliers of the instrument must provide free installation, commissioning and testing of the equipment in the laboratory.
- (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) On-site training to the graduate students after installation.
- 25. **C.M.C.:-** A separate Comprehensive Maintenance Contract will be executed after completion of the warranty period. Hence, bidders must quote price of CMC for next three year (year wise) after the warranty period.
- While evaluating the offers, the cost component towards maintenance of the goods for specified number of years is also be added in the evaluated tender value on overall basis to decide the inter se ranking of the responsive tenderers. On execution of the C.M.C. contract, performance security will be returned to the first party.
- 26. This is notable that Preference to Make in India -2017 dated 16-09-2020 guidelines should be adhered.

I/We have read all the enclosed Terms and Conditions carefully and ready to accept and according to that I/We are submitting herewith the tender.

Seal & Signature of Vendor



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Annexure-A

Technical Specifications for Supply, Installation, Testing & Commissioning of Studio

S.	Product	Specifications		Quantity				
No.								
1	Handheld	fandheld 4K Handheld Camcorder						
	Camcorder	1/2-type 3CMOS/ M	1OS based with 4K 50p/60p recording capability					
		Zoom Ratio	17x (optical), servo/manual					
		Focal Length	5.6 - 95.2 mm					
			(35mm equivalent: 30.3 - 515 mm)					
		Image Stabilizer	On/Off selectable, shift lens					
		Shutter Speed	1/24 sec to 1/8,000 sec					
		Effective Picture	Elements3840 (H) x 2160 (V)					
		Built-in Optical	ND filters					
		Filters	OFF: CLEAR					
			1: 1/4ND					
			2: 1/16ND					
			3: 1/64ND					
			Linear variable ND (Approx. 1/4ND to					
			1/128ND)					
		Video Output	BNC (x1), HD-Y/ HD-SYNC/Composite					
			1.0 V p-p, 75 Ω					
			(switchable to Genlock in)					
		SDI Output	BNC (x1), HD-Y/ HD-SYNC/Composite					
			1.0 V p-p, 75 Ω					
			(switchable to Genlock in)					
		Genlock Input	BNC (x1) (switchable to Video out) 1.0 Vp-p,					
			75Ω					
		HDMI Output	Type A (x1)					
		Wired LAN	RJ-45 (x1), 1000BASE-T, 100BASE-T,					
			10BASE-T					
		Wifi NFC Support	Supported Format IEEE 802.11 a/b/g/n/ac					



1.1	Mirror less Camera	Streaming Camera Body + Lens	Protocol *3AVC / RTMP / RTMPS 1920 x 1080 at 9 Mbps 1920 x 1080 at 6 Mbps 1280 x 720 at 3 Mbps 640 x 340 at 1 Mbps 4 K, Full-Frame, >40 MP, Tiltable LCD, >2.5 Optical Zoom, Mirror less Camera Body 24-70 mm, F 2.8 GM Standard Zoom Lens	1
	TDIDOD MITTO			
2 01	TRIPOD WIT	I	0	1
2.01	Heavy Duty Tripod Kit	Payload: Up to 20Ke Grades of drag: 0-7	G	1
	with Dolly	Height range: 690-17	780mm	
	with Bony	Head fitting: 100mm		
		Tilt range : +90° / -75		
		Counterbalance : 0-7		
		Material : Aluminum		
2.02	Light weight	Payload: Up to 10K0	3	2
	Tripod Kit	Vertical Tilt : +90° to	o -70°	
	with Dolly	Panning Range: 360°		
			Height: 66.93" / 170 cm	
		Head fitting: 175mm		
		Material : Aluminum		
2.03	Steadycam	Steadycam gimble sta	abilizer with body pod support and arm brace for	
	-	DSLR Cameras weigh	hing up to 3.5kg	
3	Teleprompter	19"teleprompter with	glass, hood & wireless remote,	1
		Featuring:		
		Prompter Software fe	atures (Non MOS):	
		Import RTF, DOC, H		
		Date & Time Display		
		•	ly, Hold & Block Stories	
		•	ce, Adjustable Font Size	
		Wired Foot Control &	& Wireless Hand Control	



4	VISION MIXER /	HD 12-Channel Digit	1	
	PRODUCTION	Video Input	8x SDI, 4x HDMI	
	SWITHCHER	Video Processing	SDI: 4:2:2	
			HDMI: YUV 4:2:2, RGB: 4:4:4	
		Video Output	6x SDI Outputs assignable:	
			Multiview, PGM, PVW,	
			PGM+DSK, Clean PGM, Clean	
			PVW, Input 1-12, STILL 1, STILL	
			2, Flex source	
			3x HDMI assignable:	
			Multiview, PGM, PVW,	
			PGM+DSK, Clean PGM, Clean	
			PVW,	
		Down-converted	1x SDI	
		Output		
		USK	4x Keyer support Chromakey/	
			Linear/ Luma Key	
		DSK	2x DSK support Lumakey & Linear	
			key (Key / Fill)	
		Effects	DVE, FTB, Cut, 32 Wipe with	
			border	
5	LED Display			
5.01		50" LED Display with	n Wall Mount Bracket	3
5.02		32" LED Display with		1
5.03		32" LED Display with	n movable Trolley set inbuilt power	2
		board		
6	Converter	SDI - HDMI		6
7	Monitor Speaker		Monitor Speaker (Pair)	3
		Max SPL: 108dB; 1 x		
		balanced		
			LEVEL Unbalanced: +6 dBV;	
		Balanced: +20.3 dBV		
		INPUTS 1 x RCA (un		
		(balanced)		
8	Professional lavalie	er microphone		



8.01	Lavalier	Polar Pattern Omni directional	4
	microphone	Audio frequency bandwidth20 - 20000 Hz	
		Equivalent noise level34 dB-A	
		Sensitivity7 mV/Pa	
		Signal to Noise60 dB-A	
		Electrical impedance200 Ohms	
		Recommended load impedance1000 Ohms	
8.02	Wireless Lavalier	Body-pack transmitter x 1	2
	microphone	Receiver x 1 with XLR and 1/4" jack outputs.	
		Frequency range: 500 – 572 MHz or higher/better	
		Signal/noise ratio typ. 105 dB(A)	
9	Professional Headphones	Specifications	
9.01	Treadpriories	Sensitivity headphones104 dB SPL/V	2
7.01		Rated Impedance55 Ohms	
		Detachable cableyes	
		Cable Length3 m	
		Earpads replaceableyes	
		Driver size (mm)30	
		Sensitivity (dB SPL/V @ 1 kHz)104	
		Rated impedance (Ω)55	
		Audio frequency bandwidth (Hz)16 - 28000	
9.02		Type: Closed-back dynamic	2
7.02		Driver Diameter: 40 mm	2
		Frequency Response : 15 - 20,000 Hz	
		Maximum Input Power: 700 mW at 1 kHz	
		Sensitivity: 96 dB	
1.0			
10	Ear Piece	(Compatible with Talkback system SN.11)	3
11	TALKBACK	IP based Wired Intercom System - Rack-mountable	1
	System	Supports 8-Way Intercom	
		4 x Beltpacks and 4 x Headsets	
		4 x Camera Tally Lights	
		4x 5-Pin XLR Cables (65') (20 mtr)	
12	SPG	HD/SD Sync Generator, simultaneous Blackburst & tri-level,	1
		outputs assignable	
	ı		1



12.01	VIDEO	Min. 16x16 3G-S	DI Router	1		
	ROUTER	16x16 3G-SDI in	puts and outputs			
	with	Small, portable fo				
	Power Supply, for	Quad cable suppo				
	redundant	Redundant power				
	operation	Eight salvos per re				
	1	_ =	Embedded web server for remote control			
		USB port to easily				
12	DI LI LOTTING	20 001 4 01	4			
13	Digital GLUES	3G-SDI 4-Channe	el analog audio Embedder / Dembedder	4		
		T7' 1 T	1 0C CD DVC CVCDT 050/000/070/404	-		
		Video Input				
		Digital	_			
	Embedder /		Video Output 1x 3G-SDI BNC, SMPTE-259/292/372/424			
	Dembedder	Digital				
		Audio Inputs	Audio Inputs Balanced Analog Audio, 1x 25 pin D			
		and Outputs	female connector on converter, 4-channels			
		in, 4-channels out				
		Breakout cable provided with 1x 25 pin D				
			male connector:			
			4x XLR female input breakout connectors			
			4x XLR male output breakout connectors			
13.01	VDA	1x6 Analog Video distribution Amplifier		2		
		NTSC / PAL	-			
14	HDD	Specifications		1		
14	RECORDER		alat CDI and HDMI continue and playbook to	1		
	RECORDER		slot SDI and HDMI capture and playback to			
			with 2x 500GB HDD storage module with			
			on & Ethernet File Transfer.			
		Video Input Digit				
		Single Link 4:2:2 (2 x BNC, input				
		selection in software)				
		HDMI v1.3				
		Video Output SD/HD SDI, SMPTE-259/292				
		Digital Single Link 4:2:2 10-bit (1 x BNC)				
			HDMI v1.3			
<u> </u>	1	I .	<u> </u>	1		



15	Desktop	Specifications	2		
	Computer	Retina 5K display			
	(For Video	27-inch (diagonal) Retina 5K display			
	Editing)				
		to 4.8GHz, 8GB (two 4GB) of 2666MHz DDR4 memory; four			
		SO-DIMM slots, user accessible, 512GB SSD, Radeon Pro			
		5300 with 4GB of GDDR6 memory or better			
16	Video Editing So	Editing Software			
16.01		FCPX Institutional Pack	1		
16.02		Adobe Premier Institutional Pack	1		
17	Audio Editing	Nevenundo Pro	1		
	Software				
18	Voice Over Fac	ility			
18.01	Voice Over	1			
10.01	Interface				
	Equipment	Line Input 1-2 (balanced 1/4" [6.35 mm] TRS)			
		Main Outputs, L and R (balanced 1/4" [6.35 mm] TRS)			
		Headphone Output (1/4" [6.35 mm] TRS) FREQUENCY RESPONSE : 20 Hz – 20 kHz (+0.05 dB)			
		weighted)			
		THD+N: 0.002%			
	Audio Mixer	24 Channel Input			
		48 V Phantom Power			
		line in / phone in /			
		USB input			
18.02		output Line and USB			
10.02		6 AUX Sends + 2 FX Sends 4 GROUP Buses + ST Bus			
		2 Matrix out			
		Computer connectivity required			



18.03	Voice Over Microphone	Large Diaphragm Studio Condenser Microphone Element Fixed-charge back plate, permanently polarized condenser Polar Pattern Cardioid Frequency Response 20-20,000 Hz Low Frequency Roll Off 80 Hz, 12 dB/octave Open Circuit Sensitivity -33 dB (22.4 mV) re 1V at 1 Pa	1
19	STUDIO LIG	HTS	
19.01		90W/100W LED Soft Panel Light 3200K / 5600K colour temperature. CRI,TLCI and R9 value above 95. Uniform shadow less output, No heat from light, No UV radiation, control mode:- Manual and DMX control mode through 5pin. Extreme soft illumination with diffuser. 0 ~ 100% linear dimming. Black powder coated fabricated housing with normal yoke, barndoor, C clamp & safety chain	12
19.02		DmX Controller 12 Faders to control atleast 12 channels	1
19.03		 ✓ Studio Grid (2X2 ft) for hanging Studio lights and fixtures, thickness as per clamping (C-Clamp) requisites and suspensions. Class 'B' GI Pipe, Cable Trays duly fastened with suspenders and supports from ceiling and walls. ✓ Electrical wirings only for Luminaries comprising of Module 2 metal fabricated 6/16Amps Sockets (as per requisite of the lights mentioned on 19.01), individual MCBs 10/16amps , Isolator 32Amp and DB wired through 6mm 3-core copper cable 	Lot
20	Installation Materials	42RU Equipments Racks with Accessories, Side Panels MDU - Rack Power Supply x 2 (per rack) Video Cable BNC Connectors with Boots HD Video Patch Panels x 1 Audio Cable for Rack * Studio - 305 mtr Roll XLR Male / Female Pair, Phone & RCA Connector Ethernet Cable CAT-6 Network Switch Miscellaneous Cables , Connectors, Pheruls, Tags, Ties, HDMI Cable/s USB extender Cable/s etc. All Audio/Video/Data cable should be of Belden, Canare make or equivalent	Lot



		All Audio/Video/Data connector should be of Belden, Canare	
		make or equivalent	
		-	
21	Red Bar Chairs	1. Height –adjustable	
		2. Shape – Waterfall seat design with waist level backrest	
		3. Seat Material – Propylene	
		4. Adjustment Type – Hydraulic	_
		5. Material – Stainless Steel	5
		6. Revolving	
		7. Material – Cushioned seat with fabric upholstery	
		8. Load Capacity – Min 90 kgs	
22	Chairs	1. Mid back Chairs	
		2. Backrest Material – Mesh	
		3. Hydraulic adjustment	12
		4. Revolving Chairs with wheel	12
		5. Load Capacity Min. 90 Kgs	
23	Air	1. The AC shall conform with relevant Indian standards as per	
23		BIS	
	Conditioner (
	Cassette)	2. The AC shall have a minimum BEE star rating of 3	
		3. Nominal cooling capacity shall be 2 Tonnes	
		4. AC shall have relevant modes for various weathers and other	
		modes like turbo, etc.	
		5. It is recommended that the AC has self-cleaning / auto clean	
		mode	2
		6. Input Power Supply - 230 V AC (+/- 10 %), 50 Hz	
		7. Actual cooling capacity in Watt (W) as per BEE star label =</td <td></td>	
		7000	
		8. Noise level should be as per Environment Protection Act 1986	
		but not more than IS 1391 Revised	
		9. Coil Material (Condenser) should be Copper	
24	CCTV	CCTV 8 Channel DVR with 8 Cameras, IP Based	
24	CCTV	CCT V & Chamiler DVK with & Cameras, if Based	1 lot
25	Online UPS	1. Online UPS should support for critical infrastructures such as	
		Data Centers, Network operating centers, Security operation	
		centers, State and District centers, Command and Control center	
		etc.	
		2. On Line UPS Capacity/Battery backup time at full	1
		load/Minimum VAH – (~) 10 KVA/60 Minutes/16385 VAH	
		3. Recommended inverter technology - PWM with IGBT, double	
		conversion	
		4. The UPS shall have Galvanic Isolation through inbuilt	



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transformer at UPS output side

5. UPS shall have cold start facility 6. Noise level (at 1 mtr distance) shall be equal to or less than 55dB 7. Input Voltage Range - 320 V to AC to 460 V AC 3 Phase 8. Input frequency range 50 Hz +/-6% Hz 9. Output voltage - 230 V AC +/-1% Single Phase 10. UPS shall be free from workmanship defects, sharp edges, nicks, scratches, burst, etc. All fasteners shall be fixed properly. The equipment shall be complete with all parts and all parts shall be functional 11. UPS shall have switches for: Mains ON/OFF MCB, Battery ON/OFF MCB/Fuse, Inverter push button with reset 12. UPS shall be supplied with required rated power cable (Copper) 13. Overall efficiency on rated full load of 0.9 PF and 230 Volt, 50 Hz AC output should be >/=85% 14. UPS shall withstand Over load capacity - 110% for 2 Minutes 15. UPS shall withstand Over load capacity - 125% for 30 seconds 16. The UPS shall have required protections from short circuits, over load, overheating, etc.	
55dB 7. Input Voltage Range - 320 V to AC to 460 V AC 3 Phase 8. Input frequency range 50 Hz +/-6% Hz 9. Output voltage - 230 V AC +/-1% Single Phase 10. UPS shall be free from workmanship defects, sharp edges, nicks, scratches, burst, etc. All fasteners shall be fixed properly. The equipment shall be complete with all parts and all parts shall be functional 11. UPS shall have switches for: Mains ON/OFF MCB, Battery ON/OFF MCB/Fuse, Inverter push button with reset 12. UPS shall be supplied with required rated power cable (Copper) 13. Overall efficiency on rated full load of 0.9 PF and 230 Volt, 50 Hz AC output should be >/=85% 14. UPS shall withstand Over load capacity - 110% for 2 Minutes 15. UPS shall withstand Over load capacity - 125% for 30 seconds 16. The UPS shall have required protections from short circuits,	
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seconds 16. The UPS shall have required protections from short circuits,	
16. The UPS shall have required protections from short circuits,	
l over load overheating etc	
17. Battery shall conforming to JISC:8702 (Pt.I,II&III) latest	
18. Battery cutoff voltage during back up shall not be less than	
10.5 V	
19. Batteries shall supply with rack	
20. UPS shall have audible alarm for over temperature, mains	
failure, battery low, inverter overload	
21. The UPS shall conform with relevant Indian standards as per	
BIS	
ription of work	QTY / Area in
	Sq Feet
	(Approx)
ition and ACOUSTICS along with electrical, fixtures and interiors	
	1550 Sq Ft
tion/Frame Wooden and Glass (Thickness at least 8mm and Min 3 ft. height)	_
]	19. Batteries shall supply with rack20. UPS shall have audible alarm for over temperature, mains failure, battery low, inverter overload21. The UPS shall conform with relevant Indian standards as per



26.02	ACOUSTICS Providing and fixing frame work of Wood of s x 450m cross section the frame shall fixed to wa thick 48kg/ meter density thermal insulations wi supported with Thin fabric as absorbing materic control the reverberation time of complete baproviding & fixing of 50 mm thick thermal res 48kg / c meter with thin fabric for holding the acoustics final finish by thick fabric for main reverberation	1730 Sq Ft.		
26.03	Acoustics door with door frame, door made of	solid wooden frame with fill of	1	
A	high density rock wool, neoprene , finished by a trip nickel electroplated and magnetic gasket for metallic handle and door closer will be fix with A	or better sound isolation. Long		
26.03 B	Acoustics door with acoustic glass window, d wooden frame with fill of high density rock woo door edges covered by MS trip nickel electroplate sound isolation. Long metallic handle and door door.	1		
26.03 C	Acoustics window (4X6) between Studio floor a	1		
26.04	Studio flooring (Vinyle plank 1.5 mm)		576 Sq Ft. + 168 sq Ft.	
26.05	Service Lights Providing & fixing - Warm LED light - 18 watt dimension 8'x 8", electrical wiring. providing and fixing along with electrical wiring and fixing Suitable for the area as per attached layout (61'X36')	Class 1 Luminaire Class The lights along with the electronshall conform with relevant Indiper BIS Fasteners - Nickel/Chrome plate Coating - epoxy powder coated Color – Warm White	an standards as	
26.06	Chroma Screen (120 Sq Feet)	120 Sq Ft (only on wall) frame mounted		
26.07	Furnishing and construction of live set (As per attached layout) with trans lights etc.	Against 18 feet wall		
26.08	Studio Table set including LED Lights / trans lights etc.	1. Total Length – 10' to 12' 2. Width – 2.5' to 3.5' 3. Design - 'U' shape 4. Base material - Solid wood, glass and metal (aluminum, etc.)		



		5. Coatings – Relevant anti-fire, anti-termite, etc.
		6. Mica Sheet – Mat Finish
		7. Table top –
		a. Dual tops with 4" to 5" gap between them
		b. Toughened glass top
		c. Wooden bottom top
		8. The table should have customizable provisions
		for LED lights and built-in RGB lights at desired
		places
26.09	Technical Furniture for PCR, Editing Room, Audi	o Recording Room with equipment cutting &
	fixing	
	Technical Furniture	Base material - Solid wood/MDF/Particle Board
A	1 no (14 Ft. X 3 Ft X 2.5)	and metal (aluminum, etc.)
В	2 no. (10 ft X 3 Ft)	Coatings – Relevant anti-fire, anti-termite,
C	1 No.(Round table radius 1.5 ft)	fingerprint resistant, etc.
		Mica Sheet – Matte Finish
		Cabling System – Yes; the table should have
		optimum tubes, outlets and compartments for
		wires and other utilities
		Table Top Thickness – min 25 mm
26.10	Green Room cum Dressing Room	Dressing Mirror, Curtain etc. as per requirement.



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ANNEXURE - "B"

TECHNICAL BID FORMAT

1	Name of the firm/company/proprietary concern	
	registered	
2	Legal status of the bidders sole	
	proprietorship/firm/agency etc.	
	(copy to be attached)	
3	Address of registered office.	
4	Address of the office at Delhi/NCR (if any).	
5	Telephone Nos./Fax/E-mail at Delhi/NCR.	
6	Specify your firm/company is a manufacturer/	
	authorized dealer/ distributor/ Agency	
7	Earnest Deposits money (EMD) Yes/No	
8	EMD Details	
	UTR No. date:	
	Amount-	
	(Rupees)(Proof of	
	towards payment of EMD through online mode to be	
	attached).	
10	PAN No.	
	(Attach attested copy)	
11	GST Reg. No.	
	(Attach attested copy)	
12	Proof of Average annual turnover (Only Certificate by	
	CA to be attached).	
13	Original Technical Catalogue of the quoted model	
	(Copy to enclosed as per Annex.B(1))	
14	Experience of Similar Work for the last three years as	
	per Point No. VII of Terms & Conditions.	



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15	Enclose self-certificate that the bidder has never	
	been black listed or punished by any court for any	
	criminal offence/breach of contract and that no	
	police/vigilance enquiry/criminal case is pending	
	against either bidder legal entity or against	
	individual Directors of the company or partners etc.	
	of the firm etc.	
17	Class-I Local Bidder Certificate in the prescribed	
	format on Company/firm letter head.	

(Signature of Authorized Person)

(Name)

(Designation)

Name of Firm/Company/Agency

Contact Details



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ANNEXURE - "B (1)"

TECHNICAL BID FORMAT FOR SPECIFICATION AS PER THE ITEMS MENTIONED IN NIT

S.N	Name of The Product	Make	Model NO.	Warranty	Deviation (if any)	Catalogue
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						



Total No. of Item(s) quoted_____

MAHARAJA AGRASEN COLLEGE

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19			
20			
21			
22			
23			
24			
25			

(Signature of Authorized Person)	
(Name)	
(Designation)	

Contact Details

Name of Firm/Company/Agency

of the disease of the state of

MAHARAJA AGRASEN COLLEGE

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Annexure-C

Financial Bid (Please refer BOQ)

(Part - A)

Supply of Media Lab at Maharaja Agrasen College as per Annexure "A"

Item No.	Total Price for the college (inclusive all taxes) (in figures and words)
1	
2	
3	
4	
5	
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MAHARAJA AGRASEN COLLEGE

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21	
22	
23	
24	
25	
26	

Total No. of Item(s) quoted_____ Seal and Signature of the bidder



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(Part - B) (Please refer BOQ)

CMC of Media Lab at Maharaja Agrasen College as per Annexure "A"

S.No.	Item Name	Rate of CMC (for	Rate of CMC	Rate of CMC	Total
		1 st Year)	(for 2 nd Year)	(for 3 rd Year)	(B+C+D)
		(B)	(C)	(D)	(in figures and words)
1.	CMC of				
	Media Lab at				
	<u>Maharaja</u>				
	<u>Agrasen</u>				
	College as per				
	Annexure				
	"A"				

Seal and Signature of the bidder

Work will be awarded to L1 firm on the basis of total of PART-A and PART-B of Financial Bid.



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Annexure-"D"

AFFIDAVIT

(On Non-Judicial Stamp paper of Rs. 100)

	l,5/0	_Daugnter / wife of Shri
	resident of	_Proprietor/Director authorized
	signatory of the agency/Firm (M/s), do hereby solemnly
	affirm and declare as follows:	
1.	I am authorized signatory of the agency/firm and is comp	petent to sign this affidavit and
	execute this tender document;	
2.	I have carefully read and understood entire tender document in clusters and the contract of	dingalltheterms and conditions
	of the tender and undertake to abide by them;	
3	The information / documents furnished along with the	ahove application are true and
٥.		••
	authentic to the best of my knowledge and belief. I / we, an	/ are well aware of the fact that

4. I/We further undertake that no case/enquiry/investigation is pending with the police/court/vigilance or any government body against the Proprietor/Partner/Director etc. as individual or against legal entity of the Company/Firm/Agency.

any stage besides liabilities towards prosecution under appropriate law.

furnishing of anyfalseinformation/fabricateddocumentwouldleadtorejectionofmytender at

5. I/We further undertake that none of the Proprietor/ Partners/Directors of the Agency/agency was or is Proprietor or Partner or Director of the Agency with whom the Government have banned/suspended/blacklisted business dealings. I/We further undertake to report to the Principal, Maharaja Agrasen College immediately after we are informed but in any case not later 15days, if any Agency in which Proprietor/Partners/Directors are Proprietor or Partner



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or Director of such an Agency which is banned/suspended in future during the currency of the Contract with you.

6. I/We further undertake that our firm/company is fulfilling all the terms and conditions/eligibility criteria obvious/explicit or implied/implicit recorded anywhere in the tender document. If at any time including the currency of the Contract, any discrepancies, found relating to our eligibility or the process of award of the contract criteria, this may lead to termination of contract and/or any other action deemed fit by the College.

(Signature of the Bidder)

Date: Name:

Place: Designation

I/We do hereby solemnly declare and affirm that the above declaration is true and correct to the best of my knowledge and belief. No part of it is false and noting has been concealed therein.

Deponent



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ANNEXURE "E"

FORMAT FOR BANK GUARANTEE TOWARDS PERFORMANCE SECURITY

(To be executed by any scheduled bank, on a non-judicial stamp paper under bank's covering letter mentioning address of the bank)

To,

Principal Maharaja Agrasen College Vasundhara Enclave, Delhi-110096

· L	repugnant to	the context a	na meanin	g thereof shall	inciuae
its successors and	assigns] hav	ing ag	reed	to exem	npt M/s
[hereinafter referred to as s	supplier /contra	actor' which e	expression u	unless repugnar	t to the
context and meaning thereof shall	include its su	accessors and	l assigns]	from depositing	g with
Maharaja Agrasen College sum of Rs.		(Rupees	_) tow	ards securi	ty /
performance guarantee in lieu of the s	said contractor	having agree	ed to furnis	h a bank guara	ntee for
the said sum of Rs(Rupees)	as	required und	er the teri	ms and condit	ions of
contract / work order no dated_[hereinafter ref	ferred as the	order'] pla	ced by college	on the
said supplier /contractor. We,	the ban	k [hereinafte	r referred t	to as 'the bank	' which
expression shall include its successors	s and assigns]	do hereby un	dertake to	pay Maharaja A	Agrasen
College, College of Delhi an amount n	ot exceeding I	Rs	_(Rupees_) on the	demand
made by Maharaja Agrasen College	e on us due	to a breach	committed	by the said s	supplier
/contractor of the terms and conditions	of the contrac	rt/order			
, confidence of the terms and conditions	of the contrac	doluci.			
1. We	the ban	k hereby unde			
We guarantee without any demur merely	the bandon a demandon	k hereby unde from Maharaj	a Agrasen	College, Unive	rsity of
We guarantee without any demur merely	the bandon a demandon	k hereby unde from Maharaj	a Agrasen	College, Unive	rsity of
	the bank on a demand to the supplier /	k hereby unde from Maharaj contractor o	a Agrasen f any of the	College, Unive e terms and cor	rsity of nditions
1. We	the bank on a demand to the supplier one of the supp	k hereby unde from Maharaj contractor o plier's / contr	a Agrasen f any of the actor's failt	College, Unive e terms and con are to comply v	rsity of nditions vith the
1. We	the band on a demand to the supplier of ons of the supplier of the order or ar	k hereby under from Maharaj contractor o plier's / contractor mendment(s)	a Agrasen f any of the actor's failt thereto. The	College, Universe terms and concurrence to comply we demand made	ersity of aditions with the conthe
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In consideration of Maharaja Agrasen College, College of Delhi[hereinafter referred to as



University of Delhi VASUNDHARA ENCLAVE, DELHI-110096

E-mail:- info@mac.du.ac.in

exceeding	Rs		_(Rupees).	
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5. T supplier /co	· ·	ee will not dischar	ge due to chan	ge in the consti	tution in the bar	ık or the said
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Signed on t	he		day of			



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ANNEXURE-F

PRESCRIBED FORMAT ON LETTER HEAD OF BIDDER

It is hereby certified that M/s	(Name of the firm) is a Class-I local
supplier in terms of Order No. P-45021/2/2017-PF	(BE-II) dated 16.09.2020 for the Supply,
Installation, Testing and Commissioning of Media Lab at Maharaja Agrasen College.	

We, understand that we will be blacklisted from future bidding process and we, will have to indemnify the Maharaja Agrasen College for any losses which may occur in case the above said certification is found incorrect at any level.

Signature and Seal of the firm/bidder



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ANNEXURE-G

ON LETTER HEAD OF BIDDER

I/we read the Clause regarding restrictions on procurement from a bidder mentioned in the office memorandum No. F.No.6/18/2019-PPD dated 23.07.2020 issued by Public Procurement Division, Dept. of Expenditure, Ministry of Finance.

It is hereby certified that I/we are not from such country and we are eligible to be considered.

Signature and Seal of the firm/bidder



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Layout

Media Lab

