



# MAHARAJA AGRASEN COLLEGE

University of Delhi  
VASUNDHARA ENCLAVE, DELHI-II0096  
Email: - info@mac.du.ac.in

TENDER NO. MAC/MEDIA LAB/08

Dated: - 29.07.2025

## (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: -

S.No.	Name of the Item	Qty.	Amount of E.M.D.	Tender Fee
1	SITC of Video Camera	3	1.5 Lakhs	Nil
2	SITC of 19” Teleprompter with display, Remote, Glass, Software	1		
3	SITC of Three leg Tripod (20 kg Pay Load)	1		
4	SITC of Three Leg Tripod (10 Kg Pay Load)	2		
5	SITC of Dolly	2		
6	SITC of EP	2		
7	SITC of Lepel Wireless Mic	4		
8	SITC of Wireless-in-Ear system	1		
9	SITC of Studio Light 200 watt soft panel with c clamp and protection chain	20		
10	SITC of Pole Mic	2		
11	SITC of Fold Back PGM 32” TV, SDI to HDMI BMD Convertor, up down movable tv stand	1		
12	SITC of 75 inch Interactive Panel	1		
13	SITC of Mic Stand	2		
14	SITC of PRO Yearly subscription	1		
15	SITC of Switcher with touch screen panel	1		
16	SITC of Monitor of PCR (With Multi viewer)	2		
17	SITC of Live back pack	1		
18	SITC of HDD Recorder	1		
19	SITC of Video Editing Software	3		
20	SITC of Editing Software	2		
21	SITC of Editing Software	1		
22	SITC of Work Station	2		
23	SITC of Work Station (TP)	1		



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24	SITC of IO Card	2		
25	STIC of 16-Channel Mixer Console	1		
26	SITC of Telephone Hybrid	1		
27	SITC of Intercom System	1		
28	SITC of Audio Monitor	2		
29	SITC of Condenser Mic	2		
30	SITC of Dynamic Mic	2		
31	SITC of Audio interface	1		
32	SITC of Channel Mixer Console	1		
33	SITC of Audio Monitor	2		
34	SITC of Headphone	1		
35	SITC of Headphone	5		
36	SITC of Headphone Amplifier	1		
37	SITC of Mic Stand long	4		
38	SITC Audio Editing Software Educational	1		
39	SITC of active LED 2.5 MM WALL 12.5 FIR X 4.25 ft	1		
40	SITC of CCTV 8 Channel DVR with 8 Cameras IP Based	1 Lot		
41	SITC of online UPS 10 KVS	1		
42	System Integration	1 Lot		
43	Cable, Connector, convertor and accessories as per actual	1 Lot		
44	Partition & Acoustics Work with interior as per attached layout and electrical work	Lot		

### **Important Dates (to be filled by office)**

Date of Publishing - 29.07.2025

Bid Document Download Start Date - 29.07.2025

Bid Submission Start Date (online) - 29.07.2025

Bid Submission End Date (online) - 18.08.2025

Date of Technical Bid Opening (online) - 19.08.2025

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



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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**



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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](http://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 in India



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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



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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



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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) 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.
  - (XI) **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.

**18. Rejection of bids:-**

(a) If bidders give wrong information in their bid, College reserves the right to reject such bids at any



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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
- (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



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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.

- ### 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.



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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.

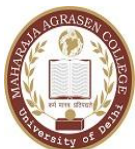
25. **C.M.C.:-** A separate Comprehensive Maintenance Contract will be executed after completion of the warranty period. Hence, bidders must quote price of CMC for next three year (year wise) after the warranty period.

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**



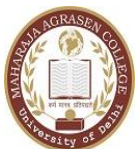
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## Annexure-A

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

VIDEO STUDIO		Technical Specifications
1	Video camera	<p>3</p> <p>Key Features: 4K 4:2:2 10 bit Recording, 4K Optical 15x L Zoom Lens with Optical IS, Dual Pixel CMOS AF with EOS iTR AF X, Broadcast Ready with IP functions, XLR ports, SDI output, Timecode, Genlock, UVC and 3 lens rings. Sensor Size 2.54cm (1in) CMOS Zoom Ratio Focal Length (35mm Equi) 15x (25.5mm-382.5mm) (f/2.8-F4.5) 30x Advanced Zoom (Full HD only) ND Filter Turret Switchable (1/4, 1/16, 1/64) Autofocus System Dual Pixel CMOS AF with EOS iTR AF X Best Recording Quality (Reso, FPS, color space) Full HD Recording Quality XF-AVC Intra 4K 4:2:2 10bit 25P/30P 3840 x 2160 (410Mbps)</p> <p>XF-AVC Long GOP 4K 4:2:2 10bit 50/60P 3840 x 2160 Intra (260Mbps) XF-AVC Intra Full HD 4:2:2 10bit 50/60P 1920 x 1080 (310Mbps) XF-AVC Long GOP Full HD 4:2:2 10bit 50/60P 1920 x 1080 (50Mbps) Recording File Formats Bit Depth XF-AVC (H.264) MP4 (H.264) MP4 (H.265) Media Type, recording time (highest quality, 32GB card) SD Card x 2 128GB - 39 Minutes record time (XF-AVC Intra 4K 25P 410Mbps) Packaged Battery Type (Continuous Record Time) Optional Battery Type (Continuous Record Time) BP-A30 (Record time TBC) BP828 (Record time TBC) Screen Size (inch) EVF Specification 8.89cm (3.5in) touch screen (Approx 2.76 mil dots) 0.91cm (0.36in) Tilting EVF (Approx 1.77mil dots) Dimensions (mm) Weight (kg) (With battery) Approx. 200mm x 219mm x 385mm (W x H x D) Weight 2.01kg (4.4lb) Highest quality SDI Output, 50i, SDI output format 12G-SDI 3820 x 2160 YCC422 10bit @ 50/60p 50i(PsF) capable Network Capability Inbuilt WIFI providing IP Streaming (H.264), UVC, Browser Remote , compatible with Infra-Red Yes</p>
2	19"Teleprompter with display, Remote, Glass, software	<p>1</p> <p>Lightweight design, ultra-clear glass. 'flip mirror', should support all camera size, Mini DV to ENG/HD, and all Cameras. Mentioned at SN. 1 • LCD Prompter Monitor • Teleprompter Hood • 70/30 Teleprompter Glass • Software • Professional Quick Release Plate • Mechanical Construction as required</p>



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3	Three Leg Tripod (20 Kg Pay Load)	1	Payload: 20 KG, Grades of drag: 0-7, Height range: 690-1780mm, Head fitting: 100mm, Tilt range: +90° / -75° Counterbalance : 0-7 Material : Aluminum
4	Three Leg Tripod (10 Kg Pay Load)	2	Head: fluid head Base Diameter:75mm, Section:3 Folded length: 75cm Working Height:72-153cm Load capacity: 8/10kg, high quality flip lock
5	Dolly	2	3 large rubber wheels and locking screw designed to increase the dolly stability. Metal ball bearing casters, folding design, Wide Compatibility and suitable for tripods Mentioned at SN. 4.
6	Lapel Mic	2	Type Pre-polarized condenser microphone Polar Pattern Omnidirectional Audio frequency bandwidth 20 - 20000 Hz Equivalent noise level 34 dB-A Sensitivity 7 mV/Pa Signal to Noise 60 dB-A Electrical impedance 200 Ohms Recommended load impedance 1000 Ohms Dimensions Height 15 mm Diameter 7.5 mm Net Weight 68 g Cable length 1.5 m (5 ft.) Design Finish matte black Audio Output Type XLR Gender Female Contacts 3-pin Powering Interface Voltage 2 to 12 V Current 2 mA
7	Ear Phone	2	Compatible with Lectrosonics, Clear-Com, Telex, Comrex, Comtek, Phonak, Studio Technologies, JK Audio, , Android, SoundTap, Pro Intercom, Shure, Galaxy Audio, Glen Sound, Sennheiser, & More Connector - 3.5mm Ear Placement - In Ear Connectivity Technology - Wired Colour - Clear
8	Lapel Wireless Mic	4	System Audio link frequency ranges Q1-6 R1-6 R4-9 S1-7 S4-7 S7-10 T1/7 T12 T13-14 U1/5 V3-4 Y1-3 470.2 – 526 MHz 520 – 576 MHz 552 – 607.8 MHz 606.2 – 662 MHz 630 – 662 MHz 662 – 693.8 MHz 694.5 – 702.7 MHz & 748.3 – 757.7 MHz 806.125 – 809.750 MHz 819.2 – 823.0 MHz 823.2 – 831.8 MHz & 863.2 – 864.8 MHz 925.2 – 937.3 MHz 1785.2 – 1799.8 MHz Bluetooth® Low Energy (BLE) frequency range 2402 - 2480 MHz Audio frequency response 20 Hz - 20 kHz (-3 dB) @ 3 dBfs Audio THD ≤ -60 dB for 1 kHz @ -3 dBfs input level Dynamic range 134 dB System latency 1.9 ms Operating temperature -10 °C - +55 °C (14 °F - 131 °F) Relative humidity 5 - 95 % (non-condensing) EW-D EM (Rack Receiver) Input voltage 11 - 13 V = Input current ≤ 300 mA Transmit power (radiated) BLE: max. 10 mW EIRP Audio output power 18 dBu max. Dimensions 212 x 44 x 189 mm (8.35" x 1.73" x 7.44") Weight approx. 1000 g (2.2 lbs) Set in packaging Dimensions 405 x 350 x 73 mm (15.91" x 13.78" x 2.87") Weight 2.8 kg (6.17 lbs) Input voltage 2.0 - 4.35 V Input



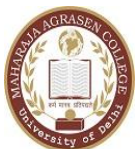
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			<p>current &lt; 300 mA Power supply 2 AA batteries 1.5 V (alkali manganese) or BA 70 rechargeable battery pack Occupied bandwidth 200 kHz Transmit power (radiated) Audio link: 10 mW ERP (Range Y1-3: 12 mW ERP) BLE: max. 10 mW EIRP Dimensions (without antenna) 63 x 80 x 20 mm (2.48" x 3.15" x 0.79") Weight (without batteries) approx. 120 g (0.26 lbs) ME 2 (Lavalier Microphone) Transducer principle pre-polarized condenser microphone Pick-up pattern omni-directional Sensitivity (free field, no load) (1 kHz) 17 mV/Pa Max. SPL at 1 kHz 130 dB Frequency response 50 to 18,000 Hz Equivalent noise level A-weighted 32 dB Connector 3.5 mm jack Cable length approx. 1.60 m (62.99") Supply voltage 7.5 V</p>
9	Wireless in-ear system	1	<p>RF characteristics Modulation Wideband FM Frequency ranges A1: 470 - 516 MHz A: 516 - 558 MHz AS: 520 - 558 MHz G: 566 - 608 MHz GB: 606 - 648 MHz B: 626 - 668 MHz C: 734 - 776 MHz C-TH: 748.2 - 757.8 MHz D: 780 - 822 MHz E: 823 - 865 MHz Receiving frequencies Max. 1680 frequencies, adjustable in 25 kHz steps 20 frequency banks, each with up to 16 factory-pre-set channels, no intermodulation 6 frequency banks with up to 16 programmable channels Switching bandwidth up to 42 MHz Nominal/peak deviation <math>\pm 24</math> kHz / <math>\pm 48</math> kHz Receiver principle Adaptive diversity Sensitivity (with HDX, peak deviation) &lt; 4 <math>\mu</math>V, typ. 1.6 <math>\mu</math>V for 52 dBA rms S/N Adjacent channel election Typically <math>\geq 65</math> dB Intermodulation attenuation Typically <math>\geq 70</math> dB Blocking <math>\geq 80</math> dB Squelch 5 to 25 dB<math>\mu</math>V, adjustable in steps of 2 dB Pilot tone squelch Can be switched off AF characteristics Comander system Sennheiser HDX Signal-to-noise ratio (1 mV, peak deviation) approx. 90 dBA Total harmonic distortion (THD) <math>\leq 0.9</math> % Output power at 2.4 V, 5 % THD, nominal deviation 2 x 100 mW at 32 <math>\Omega</math> High Boost +8 dB at 8 kHz Limiter -18 dB to -6 dB, adjustable in steps of 6 dB, can be switched off Overall device Temperature range -10 <math>^{\circ}</math>C to +55 <math>^{\circ}</math>C Power supply 2 AA batteries, 1.5 V or BA 2015 accupack Nominal voltage 3 V battery / 2.4 V rechargeable battery Current consumption at nominal voltage: approx. 140 mA with transmitter switched off: <math>\leq 25</math> <math>\mu</math>A Operating time approx. 4 to 6 hours (depending on volume level) Dimensions Approx. 82 x 64 x 24 mm Weight (incl. batteries) approx. 125 g</p>
10	Studio light 200 watt soft panel with c clamp and protection chain	20	<p>Electrical &amp; Power: - Power Consumption : 220W - Input Voltage : AC 100V ~ 260V, 50Hz Optical Arrangement: - Beam Angle : 120<math>^{\circ}</math> Spread - PMMA Milk White Diffuser Lamp Source: - LED SMD Lamp Source - CCT 3200K/5600K</p>



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			<p>450 x 0.5W Surface Mounted LED's - Colour Rendering Index 98+ - Tel. Lighting Consistency Index 99+ - R9 Value 95+ - 50,000 Hours Burning life Physical &amp; Construction: - Dimension 600 x 330 x 140mm - Weight 9.95 Kgs/ 21.93 lbs - DmX 5 Pin In and Out - Power Loop In and Out - Ingress Protection IP20 - Aluminium Body with Black Powder coated finish - LCD Easy View Display - Inbuilt Barndoor arrangement Control: - DmX 512 Through 5 Pin XLR - Manual Mode Operation - 1 Channel DmX Control - Master slave mode through keys /pot Others: - Working Temperature +45° ~ -25° - Passive Cooling Systems, No Fan - Compatible for High Speed Photography 10K FPS - Flicker Free &amp; Green tone free</p>
11	Podium Microphone	2	<p>Acoustic Principle Dynamic Polar Pattern Cardioid Frequency Range 50Hz - 15kHz Output Connection XLR Output Impedance 320Ω Sensitivity -57dBV (1.4mV @ 94dB SPL) Power Requirements Not required</p>
12	Foldback PGM 32"TV, SDI to HDMI BMD Convertor, up down movable tv stand.	1	<p>Product Type LED Screen Size 80 cm Resolution HD (1,366 x 768) Video Hyper Real Product Type LED Display Screen Size 80 cm Resolution HD (1,366 x 768) Video Picture Engine Hyper Real HDR (High Dynamic Range) HDR HDR 10+ Support Contrast Mega Contrast Enhancer Yes Audio Object Tracking Sound OTS Lite Q-Symphony Yes Sound Output (RMS) 20W Speaker Type 2CH Adaptive Sound Yes Smart Service Operating System Tizen™ Smart TV Bixby Yes Works with AI Speaker Alexa (IN Only), Google Assistant (IN Only) Samsung TV Plus Yes Smart Things Hub / Matter Hub / IoT-Sensor Functionality / Quick Remote Quick Remote only Universal Guide Yes (India Only) Smart Feature Multi Device Experience Mobile to TV, Sound Mirroring, Wireless TV On Apple Air Play Yes Tuner/Broadcasting Digital Broadcasting DVB-T2CS2 Analog Tuner Yes Connectivity Bluetooth Yes HDMI 2 HDMI Audio Return Channel eARC USB 1 x USB-A RF In (Terrestrial / Cable input) 1/1(Common Use for Terrestrial)/1 Design Slim Look Bezel Type 3 Bezel-less Front Colour BLACK Stand Type MINI ARC Stand Colour BLACK Additional Feature EPG Yes IP Control Yes Accessibility - Voice Guide English (UK) Power &amp; Eco Solution Power Supply AC220-240V~ 50/60Hz Power Consumption (Max) 60 W Energy Efficiency Class 3 Dimension Package Size (WxHxD) 790 x 506 x 123 mm Set Size with Stand (WxHxD) N/A x N/A x N/A Set Size without Stand (WxHxD) 715.2 x 429.4 x 82.7 mm VESA Spec 20 cm x 20 cm Product Weight Package Weight 5.1 kg Set Weight</p>



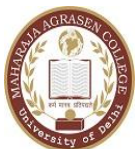
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			with Stand N/A kg Set Weight without Stand 3.4 kg Accessory Remote Controller Model TM2280A User Manual Yes Power Cable Yes
13	75" interactive panel	1	Diagonal Size 75" Panel Type ADS Resolution 3,840 x 2,160 Pixel Pitch (HxV) 429.6(H) x 429.6(V) Brightness (Typ) 400 nit Contrast Ratio 1,200:1 Viewing Angle (H/V) 178/178 Response Time 8ms Colour Gamut 72% Glass Haze 25% H-Scanning Frequency 135Khz Maximum Pixel Frequency 78MHz V-Scanning Frequency 60Hz Operation Time Support 16/7 Connectivity HDMI In 3 Version of HDMI 2 Version of HDCP 2.1 USB 5 (2.0 X1, 3.0 X4) IR In Yes Audio In Stereo Mini Jack Audio Out Stereo Mini Jack Video Out Yes RS232 In Yes RS232 Out Yes RJ45 In Yes RJ45 Out Yes WiFi Yes Bluetooth Yes Power Supply AC100-240V 50/60Hz Power Consumption (On Mode) 385W Power Consumption (Sleep Mode) 0.5W ↓ Dimension Set Dimension (WxHxD) 1709 x 1020 x 88 mm Package Dimension (WxHxD) 1863 x 1140 x 225 mm Weight Set Weight with Stand 45.5 kg Package Weight 57.6 kg Operation Conditions Temperature 0°C~40°C Humidity 10 ~ 90% Mechanical Specification VESA Mount 800 x 400 mm Bezel Width 16.4mm(U), 16.4mm(L/R), 44.9mm(B) Frame Material Non- Glossy Optional Feature Touch Yes SoC OS Version Android- 11 Flash Memory Size 32G Touch Technology IR Certification and Compliance EMC Part 15, Subpart B Class A KS C9832, KS C9835 EN55032:2015/A11:2020/A1:2020, EN 55035:2017/A11:2020 EN 61000-3-2:2019/A1:2021 ?? ? ? ? ? ? EN 61000-3-3:2013/A1:2019/A2:2021 EN 61000-3- 2:2019/A1:2021 ?? ? ? ? ? EN 61000-3- 3:2013/A1:2019/A2:2021 EN 61000-3-2:2019/A1:2021 ?? ? ? ? ? EN 61000-3-3:2013/A1:2019/A2:2021 EN 55035:2017/A11:2020 EN 61000-3-2:2019/A1:2021 ?? ? ? ? ? ? EN 61000-3-3:2013/A1:2019/A2:2021 J55032, VCCI- CISPR32 JIS C61000-3-2 GB9254-2021 GB17625.1-2012 CNS13438 (ITE EMI) Class A / ? AS/NZS ? CISPR 32 EN55032:2015/A11:2020/A1:2020, EN 55035:2017/A11:2020 Safety IEC 62368-1 Edition 3 & IEC 60950-1 UL62368-1 edition 3 GB4943.1-2022 PSB+ IEC 62368-1 NOM-019 K 62368 IRAM+ IEC 62368-1 EAC+ IEC 62368-1 INMETRO+ IEC 62368-1



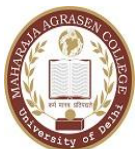
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			SASO+ IEC 62368-1 BSMI+ IEC 62368-1 IEC 62368-1/AS/NZS 62368-1 IEC60950-1 / IS13252
14	Mic stand	2	General Product type Stands and Tripods Type Microphone Stands Tubing material Steel Tubing colour Black Tubing surface Powder coated Min. height 510 mm Max. height 740 mm Transport length 650 mm Height adjustment Yes Base type Tripod Base material Zinc die-cast Boom model 2-point adjustment Boom length 510 - 880 mm Interchangeable rings 1 x 25 mm, 2 x 15 mm, 4 x 20 mm Black ring pack included Yes Weight 2,2 kg
	<b>PCR</b>		
15	CG PRO Yearly subscription	1	Video Standards SDI - SMPTE-425M- 1080p (60/59.94/50/30/25) - SMPTE-292M - 1080p (30/29.97/25) 1080i (60/59.94/50) - SMPTE-296M - 720p (60/59.94/50) - SMPTE-259M - PAL, NTSC HDMI - Video standard – HDMI Video Input - SDI Video Input - Up to 6 port x SDI input SD/HD Video Output - SDI Video Output - 2 x SDI – SD/HD (Fill & Key) HDMI - 1 HDMI 1.4 type A connector with support for 1080p60. NDI - NDI input: Unlimited NDI Live Stream imports Audio Input & Output - 16 channels embedded in SD and HD Import Standards Media Format - MPEG2, MPEG4 and H.264 containers: (avi, mpg, mpeg, mp4, mxf, mov) Audio - .WAV, MP3 Live Video Input Format - H.264 (.mp4) MPEG-2 (.mpg) - 1080p 60/59.94/50/30/29.97/25 - 1080i 60/59.94/50 - 720p 60/59.94/50 - H.264 up to 4k 30p Image Format - .png, .jpg, .bmp, .tga, .dds, .hdr, .ppm, .pfm



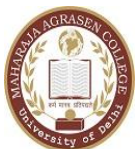
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16	Switcher with touch screen panel	<p>1</p> <p>Total Video Inputs 10 Total Video Outputs 6 SDI Rates 1.5G, 3G Total Audio Inputs 2 x balanced 1/4 inch Jack, 1 x 5 pin XLR Talkback.</p> <p>Total Audio Outputs 1 x 5 pin XLR Talkback. SDI Audio Inputs 8 Ch embedded audio on all SDI inputs. SDI Audio Outputs 16 Ch embedded audio on all SDI outputs. Time code Connections None Reference Input Tri-Sync or Black Burst. Video Input Re-Sync On all 10 inputs.</p> <p>Frame Rate and Format Converters On all 10 inputs. SDI Aux Outputs Any of the 6 SDI outputs. SDI Preview Outputs Any of the 6 SDI outputs.</p> <p>SDI Program Outputs Any of the 6 SDI outputs. Down Converted SDI Program Output None Webcam Output 1 x USB-C supporting 720p or 1080p at PGM frame rate. Total Multi Views 1 x 3G-SDI Control Panel Connection Ethernet. Direct connection between panel and chassis, or via network. Internal Time code Generator Yes Talkback RJ45 for 3rd party talkback systems. Tally Output Added via ethernet connection to Blackmagic Design GPI and Tally Interface product. (Not included). Ethernet Supports 10/100/1000 BASE-T. Computer Interface 1 x USB-C supports USB 2.0SD Video Standards None HD Video Standards 720p50, 720p59.94, 720p60 1080i50, 1080i59.94, 1080i60 1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080p50, 1080p59.94, 1080p60 SDI Compliance SMPTE 292M, SMPTE 296M, SMPTE 424M, SMPTE 425M level A and B. Video Sampling 4:2:2 Colour Precision 10-bit. Colour Space REC 709 SDI Auto Switching Automatically detects between 1.5G-SDI and level A or level B 3G-SDI. Product Specifics Upstream Keyers 4 Downstream Keyers 1 Advanced Chroma Keyers 4 Talkback Support Yes Mix Minus Support Yes Linear/Luma Keyers 5 Transition Keyer (Stinger/DVE) 1 Stinger, 1 DVE. Total Number of Layers 7 Pattern Generators 5 Colour Generators 2 Control Panel Front fascia emergency switching, software or optional hardware panel. Routable Windows 16 Tally Red for program and green for preview indication. Windows Source Labels Yes Multi View Monitoring Multi View Monitoring 1 x multi view configurable to 16, 13, 10, 7 or 4 up view. Includes monitoring of Program, Preview, Inputs, Media Players, DSK, Clean Feed with optional labels and audio meters. Multi View Video Standard HD Display Minimum Resolution 1366 x 768 Media Players 2 Channels Fill and key for each media player. Media Pool Still Image Capacity 20 Media Pool Clip Capacity 2 x up to 1080p60. Media Player Clip Length in 720 HD 400 frames. Media</p>
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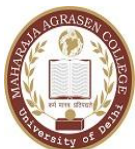
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			<p>Player Clip Length in 1080 HD 200 frames. Media Pool Still Image Format PNG, TGA, BMP, GIF, JPEG and TIFF. Media Pool Video File Format TGA Sequence. Media Pool Audio File Format WAV, MP3 and AIFF.</p> <p>Display Front panel Built in 2.2 inch LCD monitor for video, 10 LED buttons for setup and emergency switching, 4 source buttons, 6 talkback selection and mix buttons, menu control knob and set button, front panel lock button.</p> <p>Processing Delay &lt; 10 lines. Audio Mixer</p> <p>28 Channel mixer Selectable On/Off/Audio-Follow-Video. Level and Peak metering. Master gain control. 6 band parametric EQ, Dynamics including Expander, Gate, Compressor and Limiter.</p>
17	Monitor for PCR ( With Multiviewer)	2	<p>50" LED Display with Wall Mount Bracket Resolution: 4K Ultra HD (3840 x 2160) Resolution   Refresh Rate: 50 Hertz Display Features: Crystal Processor 4K   Pure Colour   4K Upscaling   HDR 10+ Support   HDMI Black Level   Mega Contrast   UHD Dimming   Contrast Enhancer   Motion Xcelerator   Filmmaker Mode     Additional Features: Endless Free Content   Samsung Knox Security (Your privacy. Secured.)   Connect-Share   TV Key</p> <p>Sound Features: 20W Output- 2CH   Powerful Speakers with Q-Symphony   Object Tracking Sound   Bluetooth Audio   Adaptive Sound</p> <p>Smart TV Features : Bixby Voice Ready (Control your Crystal UHD TV with Bixby Voice through SmartThings App)   Works With AI Speaker (Alexa and Google Assistant)   Mobile to TV Mirroring   Sound Mirroring   Wireless TV On   Buds Auto switch   Web Browser   SmartThings Hub / Matter Hub / IoT-Sensor Functionality   Apple Airplay   Daily+     Gaming Features: Auto Game Mode (ALLM)   VRR   HGiG</p> <p>Connectivity options: 3 Hdmi Ports For Seamless Connectivity With External Devices   1 X Usb-A Usb Ports To Connect Hard Drives Or Other Usb Devices   Wi-Fi   Bluetooth   Anynet+ (Hdmi-Cec)   Ethernet (Lan) Port   Rf In (Terrestrial)</p>
18	Live back pack	1	<p>low-latency, miniaturized HD broadcast terminal for Live streaming Audio &amp; Video through cloud distribution network (CDN).</p> <p>Support 4 streaming for each terminal. Multi-streaming protocol RTMP+RTSP+HLS+SRT 1*5G/4G + 2x3G/4G/LTE A modules,1 Gigabit port for LAN, Wi-Fi and 4 Extended USB ports bonding Up to 9 networks Support H.264/H.265 Encoding algorithm SDI + HDMI Input 3 Inch LED touch screen</p>



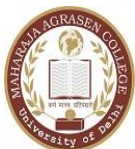
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			2 hours built-in battery and also support external battery for extra backup.
19	HDD Recorder		12G-SDI with a loop, 12G-SDI output. The HDMI connections and the ProRes and DNx file formats , all switch between SD, HD and Ultra HD television standards., H.265 when recording in Ultra HD.. DNxHD 220x, DNxHD 220x MXF, DNxHD 145, DNxHD 145 MXF, DNxHD 45, DNxHD 45 MXF for 720p and 1080p HD formats up to 60fps.DNxHR HQX, DNxHR HQX MXF, DNxHR SQ, DNxHR SQ MXF, DNxHR LB, DNxHR LB MXF for 2K DCI and 2160p formats up to 60fps. H.265 SDI 4:2:2 10-bit, H.265 High 4:2:0 10-bit, H.265 Medium 4:2:0 10-bit, H.265 Low 4:2:0 10-bit for all 2160p formats up to 60 fps. H.264 SDI 4:2:2 10-bit, H.264 High 4:2:0 8-bit, H.264 Medium 4:2:0 8-bit, H.264 Low 4:2:0 8-bit for all formats up to 1080p60.
20	Video Editing System	3	10-Core CPU 10-Core GPU 16GB Unified Memory 512GB Storage <sup>1</sup> 16-core Neural Engine 60.96 cm (24") 4.5K Retina display <sup>2</sup> Four Thunderbolt 4 ports Gigabit Ethernet Magic Keyboard with Touch ID 12MP Center Stage camera with support for Desk View 1080p HD video recording Advanced image signal processor with computational video Hardware-accelerated H.264, HEVC, ProRes and ProRes RAW Video decode engine Video encode engine ProRes encode and decode engine AV1 decode
21	Editing Software	2	<p>Revolutionary Video Editing</p> <ul style="list-style-type: none"> <li>• The Magnetic Timeline uses advanced metadata and Clip Connections for faster, easier editing</li> <li>• Enhanced Timeline Index lets you drag and drop audio roles to rearrange the layout of your timeline</li> <li>• Transcribe to Captions uses AI to generate closed captions in the timeline by analysing spoken audio</li> <li>• AI-powered Magnetic Mask automatically tracks and isolates people, objects and shapes in any footage</li> <li>• Import and edit stereoscopic spatial video clips and deliver directly to Apple Vision Pro</li> <li>• Edit multicamera projects with automatic syncing and support for up to 64 camera angles</li> <li>• Automatically transform projects for square or vertical delivery with Smart Conform</li> <li>• Enhance speech using AI with Voice Isolation by reducing background noise and optimising levels</li> <li>• Extend the capabilities of Final Cut Pro with third-party workflow extensions</li> </ul> <p>Powerful Media Organisation</p> <ul style="list-style-type: none"> <li>• Organise your work within libraries for efficient media management and collaboration</li> <li>• Create proxy copies of your media for portability and</li> </ul>



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performance

- Apply custom keywords or favourites on the go as you select clip ranges
- Smart Collections dynamically organise content for you to quickly find any shot in a few clicks
- Locate duplicate media in the timeline using highlighted clip ranges or the Timeline Index

Incredible Performance

- Unrivalled speed and efficiency with optimisations for the latest generation of Apple silicon
- Work with a broad range of formats including ProRes, ProRes RAW, RED, XAVC, AVCHD, Avid DNxHR®, Avid DNxHD®, H.264, HEVC and more

Compelling, Customisable Effects

- Beautifully animated, easily customisable 2D and 3D titles
- Change the look of titles, transitions and effects using intuitive controls
- Choose from an ecosystem of third-party FxPlug plug-ins with custom interfaces

Integrated Audio Editing

- Assign roles during import to easily track and organise your project
- Expand and edit multichannel audio files directly in the timeline
- Apply intuitive Logic-based effects and reduce background noise to isolate voices
- Sync video with separate audio in a single step with instant audio waveform matching

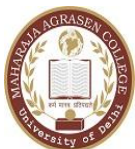
Intuitive Colour Grading

- Import, edit and deliver video in standard colour spaces, or in Rec. 2020 and HLG colour spaces
- Powerful colour wheels and curves for precise adjustments with keying and masks
- Automatically tone-map clips to match HDR or SDR colour space
- Take advantage of log-encoded video shot on iPhone 15 Pro and iPhone 15 Pro Max or later for even more grading flexibility
- Accurately view HDR on MacBook Pro and Pro Display XDR

One-Step, Optimised Output

- Incredibly fast export for playback on Apple devices and upload to websites such as Vimeo and YouTube
- Export audio stems and multiple versions of a finished video using roles metadata
- Import and export XML for third-party workflows like colour grading and sound mixing

System Requirements: macOS 14.6 or later, 8 GB of



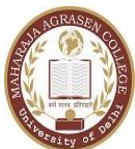
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			memory (16 GB recommended), Metal-capable graphics card (Intel-based Mac computers only), 7.2 GB of available disk space.
22	Editing Software	1	Magically extend your clips with Generative Extend. Search hours of footage in seconds with Media Intelligence. And go global in 27 languages by auto-translating captions. Speed through edits with the latest in Premiere Pro Use industry-standard video editing tools and timesaving AI features to get to the right cut fast. Hone your narrative with three-point editing. Try Text-Based Editing to refine, reorder and trim clips just like you'd edit a text doc. And quickly search your footage with AI-powered Media Intelligence to identify objects, locations, framing and other details Get the right look for your video with powerful colour correction and grading tools. Drop footage from nearly any camera into your timeline instantly and transform your raw and log footage on import without LUTs. Balance colour fast with AI, use professional colour wheels and curve controls and check your results with built-in video scopes
23	Work Station	2	Total Cores 24# of Performance-cores8 # of Efficient-cores16 Total Threads 32 Max Turbo Frequency 6 GHz Intel® Thermal Velocity Boost Frequency 6 GHz Intel® Turbo Boost Max Technology 3.0 Frequency ± 5.8 GHz Performance-core Max Turbo Frequency 5.6 GHz Efficient-core Max Turbo Frequency 4.4 GHz Performance-core Base Frequency 3.2 GHz Efficient-core Base Frequency 2.4 GHz Cache 36 MB Intel® Smart Cache Total L2 Cache32 MB Processor Base Power 125 W Maximum Turbo Power 253 W Supplemental Information Marketing Status Launched Launch Date Q4'23 Embedded Options Available No Use Conditions PC/Client/Tablet, Workstation Datasheet View now



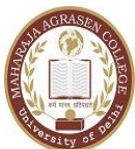
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Memory Specifications Max Memory Size (dependent on memory type) 192 GB Memory Types Up to DDR5 5600 MT/s Up to DDR4 3200 MT/s Max # of Memory Channels 2 Max Memory Bandwidth 89.6 GB/s ECC Memory Supported ‡ Yes GPU Specifications GPU Name‡ Intel® UHD Graphics 770 Graphics Base Frequency 300 MHz Graphics Max Dynamic Frequency 1.65 GHz Graphics Output eDP 1.4b, DP 1.4a, HDMI 2.1 Execution Units 32 Max Resolution (HDMI)‡ 4096 x 2160 @ 60Hz Max Resolution (DP)‡ 7680 x 4320 @ 60Hz Max Resolution (eDP - Integrated Flat Panel)‡ 5120 x 3200 @ 120Hz DirectX\* Support 12 OpenGL\* Support 4.5 OpenCL\* Support 3.0 Multi-Format Codec Engines 2 Intel® Quick Sync Video Yes Intel® Clear Video HD Technology Yes # of Displays Supported ‡4 Device ID0xA780 Expansion Options Direct Media Interface (DMI) Revision4.0 Max # of DMI Lanes8 Scalability1S Only PCI Express Revision 5.0 and 4.0 PCI Express Configurations ‡ Up to 1x16+4, 2x8+4 Max # of PCI Express Lanes 20 Package Specifications Sockets Supported FCLGA1700 Max CPU Configuration1 Thermal Solution Specification PCG 2020A TJUNCTION 100°C Package Size45.0 mm x 37.5 mm Max Operating Temperature 100 °C CPU LGA1700 socket: Support for the 14th, 13th, and 12th Generation Intel® Core™, Pentium® Gold and Celeron® Processors\* L3 cache varies with CPU \* Please refer to "CPU Support List" for more information. Chipset Intel® Z790 Express Chipset Memory Support for DDR5 8266(O.C) / 8200(O.C) / 8000(O.C) / 7950(O.C) / 7900(O.C) / 7800(O.C) / 7600(O.C.) / 7400(O.C.) / 7200(O.C.) / 7000(O.C.) / 6800(O.C.) / 6600(O.C.) / 6400(O.C.) / 6200(O.C.) / 6000(O.C.) / 5800(O.C.) / 5600(O.C.) / 5400(O.C.) / 5200(O.C.) / 4800 / 4000 MT/s memory modules 4 x DDR5 DIMM sockets supporting up to 256 GB (64 GB single DIMM capacity) of system memory Dual channel memory architecture Support for ECC Un-buffered DIMM 1Rx8/2Rx8 memory modules (operate in non-ECC mode) Support for non-ECC Un-buffered DIMM 1Rx8/2Rx8/1Rx16 memory modules Support for Extreme Memory Profile (XMP) memory modules (The CPU and memory configuration may affect the supported memory types, data rate (speed), and number of DRAM modules, please refer to "Memory Support List" for more information.) Onboard Graphics Integrated Graphics Processor-Intel® HD Graphics support: - 1 x HDMI port, supporting a maximum resolution of 4096x2160@60 Hz \* Support for HDMI 2.1 version and HDCP 2.3. \*\* Support for native HDMI 2.1 TMDS compatible ports. - 1 x DisplayPort, supporting a maximum resolution of



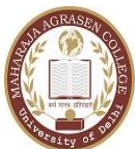
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4096x2304@60 Hz \* Support for DisplayPort 1.2 version and HDCP 2.3  
(Graphics specifications may vary depending on CPU support.)Audio Realtek® ALC1220-VB CODEC \* The back panel line out jack supports DSD audio. High Definition Audio 2/4/5.1/7.1-channel \* You can change the functionality of an audio jack using the audio software. To configure 7.1-channel audio, access the audio software for audio settings. Support for S/PDIF Out LAN Intel® 2.5GbE LAN chip (2.5 Gbps/1 Gbps/100 Mbps) Expansion Slots CPU:  
- 1 x PCI Express x16 slot, supporting PCIe 5.0 and running at x16 (PCIEX16) \* For optimum performance, if only one PCI Express graphics card is to be installed, be sure to install it in the PCIEX16 slot. Chipset: - 2 x PCI Express x16 slots, supporting PCIe 4.0 and running at x4 (PCIEX4\_1/PCIEX4\_2) Storage Interface CPU: - 1 x M.2 connector (Socket 3, M key, type 22110/2280 PCIe 4.0 x4/x2 SSD support) (M2A\_CPU) Chipset: - 2 x M.2 connectors (Socket 3, M key, type 22110/2280 PCIe 4.0 x4/x2 SSD support) (M2P\_SB, M2Q\_SB) - 1 x M.2 connector (Socket 3, M key, type 22110/2280 SATA and PCIe 4.0 x4 SSD support) (M2M\_SB)  
- 6 x SATA 6Gb/s connectors RAID 0, RAID 1, RAID 5, and RAID 10 support for NVMe SSD storage devices RAID 0, RAID 1, RAID 5, and RAID 10 support for SATA storage devices \* Refer to "2-8 Internal Connectors," for the installation notices for the M.2 and SATA connectors.  
USB Chipset: - 1 x USB Type-C® port on the back panel, with USB 3.2 Gen 2x2 support - 1 x USB Type-C® port with USB 3.2 Gen 2 support, available through the internal USB header - 2 x USB 3.2 Gen 2 Type-A ports (red) on the back panel - 5 x USB 3.2 Gen 1 ports (3 ports on the back panel, 2 ports available through the internal USB header) Chipset+2 USB 2.0 Hubs: - 8 x USB 2.0/1.1 ports (4 ports on the back panel, 4 ports available through the internal USB headers) Internal I/O Connectors 1 x 24-pin ATX main power connector 2 x 8-pin ATX 12V power connectors 1 x CPU fan header 1 x CPU fan/water cooling pump header 3 x system fan headers 1 x system fan/water cooling pump header 3 x addressable RGB Gen2 LED strip headers 1 x RGB LED strip header 4 x M.2 Socket 3 connectors 6 x SATA 6Gb/s connectors 1 x front panel header 1 x front panel audio header 1 x USB Type-C® header, with USB 3.2 Gen 2 support 1 x USB 3.2 Gen 1 header 2 x USB 2.0/1.1 headers 2 x Thunderbolt™ add-in card connectors 1 x Trusted Platform Module header (For the GC-TPM2.0 SPI/GC-TPM2.0 SPI 2.0/GC-TPM2.0 SPI V2 module only) 1 x reset button 1 x Q-Flash Plus button 1 x Clear CMOS button 1 x reset jumper 1 x Clear CMOS jumper Back Panel Connectors



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			<p>1 x USB Type-C® port, with USB 3.2 Gen 2x2 support 2 x USB 3.2 Gen 2 Type-A ports (red) 3 x USB 3.2 Gen 1 ports 4 x USB 2.0/1.1 ports 1 x HDMI port 1 x Display Port 1 x RJ-45 port 1 x optical S/PDIF Out connector 2 x audio jacks I/O Controller iTE® I/O Controller Chip H/W Monitoring Voltage detection Temperature detection Fan speed detection Water cooling flow rate detection Fan fail warning Fan speed control * Whether the fan (pump) speed control function is supported will depend on the fan (pump) you install. BIOS 1 x 256 Mbit flash</p> <p>Use of licensed AMI UEFI BIOS PnP 1.0a, DMI 2.7, WfM 2.0, SM BIOS 2.7, ACPI 5.0 Unique Features Support for GIGABYTE Control Center (GCC) * Available applications in GCC may vary by motherboard model. Supported functions of each application may also vary depending on motherboard specifications. Support for Q-Flash Support for Q-Flash Plus Support for Smart Backup Bundled Software Norton® Internet Security (OEM version) LAN bandwidth management software Operating System Support for Windows 11 64-bit Support for Windows 10 64-bit Form Factor ATX Form Factor; 30.5cm x 24.4cm</p>
24	TP Work station	1	<p>Total Cores 6 # of Performance-cores6 # of Efficient-cores0 Total Threads 12 Max Turbo Frequency 4.80 GHz Performance-core Max Turbo Frequency 4.80 GHz Performance-core Base Frequency 3.30 GHz Cache 18 MB Intel® Smart Cache Total L2 Cache7.5 MB Processor Base Power 65 W Maximum Turbo Power 117 W Supports Intel® Core™ 14th/ 13th /12th processors Dual Channel Non-ECC Unbuffered DDR4, 2 DIMMs 6+1+1 Hybrid Digital VRM Design</p> <p>Intel® GbE LAN with cFos Speed Internet Accelerator Software NVMe PCIe 3.0 x4 M.2 High Quality Audio Capacitors and Audio Noise Guard Smart Fan 6 Features Multiple Temperature Sensors , Hybrid Fan Headers with FAN STOP GIGABYTE APP Center, Simple and Easy Use Anti-Sulfur Resistors Design Ram16GB, 2TB HDD, 500GB M.2, 2GB Graphics, 22"LED, Keyboard, Mouse, Cabinet With SMPS</p>
24	IO Card	2	<p>SDI Video Inputs4 x bidirectional 12-bit SD/HD independently configurable as either Input or Output. SDI Video Outputs</p> <p>4 x bidirectional 12-bit SD/HD independently configurable as either Input or Output. SDI Audio Inputs 16 channels embedded in SD and HD.</p> <p>SDI Audio Outputs 16 channels embedded in SD and HD. Sync Input Tri-Sync or Black Burst. Computer Interface PCI Express 4 lane generation 2, compatible with 4, 8 and 16 lane PCI Express slots. Supported Codecs AVC-Intra, AVCHD,</p>



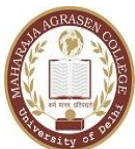
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			<p>Canon XF MPEG2, Digital SLR, DV-NTSC, DV-PAL, DVCPRO50, DVCPROHD, DPX, HDV, HEVC, XDCAM EX, XDCAM HD, XDCAM HD422, DNxHR &amp; DNxHD, Apple ProRes 4444, Apple ProRes 422 HQ, Apple ProRes 422, Apple ProRes LT, Apple ProRes 422 Proxy, Uncompressed 8-bit 4:2:2, Uncompressed 10-bit 4:2:2, Uncompressed 10 bit 4:4:4 Software D Video Standards 525i59.94 NTSC, 625i50 PAL HD Video Standards 720p50, 720p59.94, 720p60 1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080p50, 1080p59.94, 1080p60 1080PsF23.98, 1080PsF24, 1080PsF25, 1080PsF29.97, 1080PsF30 1080i50, 1080i59.94, 1080i60 SDI Compliance SMPTE 259M, SMPTE 292M, SMPTE 296M, SMPTE 372M, SMPTE 425M, ITU-R BT.656 and ITU-R BT.601. SDI Metadata Support RP 188/SMPTE 12M-2 and closed captioning. Audio Sampling Television standard sample rate of 48 kHz and 24 bit. SDI Color Precision 8, 10, 12-bit RGB 4:4:4 in all modes up to 1080p30 and 8, 10-bit YUV 4:2:2 in all modes. 12-bit RGB 4:4:4 only supported in playback. SDI Video Sampling 4:2:2, 4:4:4 Color Space REC 601, REC 709, REC 2020 HDR Support HDR static metadata packing, HLG and PQ transfer characteristics.</p>
26	16-Channel Mixer Console	1	<p>Input Terminals PAD 26 dB GAIN Trim Position Actual Load Impedance For Use With Nominal Input Level Connector Sensitivity *1 Nominal Max. before clip MIC/LINE 1 – 8 OFF +64 dB 3kΩ 50-600Ω Mics/Lines -80 dBu (0.077 mV) -60 dBu (0.775 mV) -40 dBu (7.75 mV) Combo jack *2(Balanced) +20 dB -36 dBu (12. 3 mV) -16 dBu (122.8 mV) +4 dBu (1.228 V) ON +38 dB -54 dBu (1.55 mV) -34 dBu (15.46 mV) -14 dBu (154.6 mV) -6 dB -10 dBu (245 mV) +10 dBu (2.451 V) +30 dBu (24.51 V) MIC 9/10, 11/12 - +64 dB 3kΩ 50-600Ω Mic -80 dBu (0.077 mV) -60 dBu (0.775 mV) -40 dBu (7.75 mV) XLR-3-31 *3 (Balanced) +20 dB -36 dBu (12. 3 mV) -16 dBu (122.8 mV) -6 dBu (388.2mV) LINE 9/10, 11/12 - +38 dB 10kΩ 600Ω Lines -54 dBu (1.55 mV) -34 dBu (15.46 mV) -14 dBu (154.6 mV) Phone jack *5 (Unbalanced) -6 dB -10 dBu (245 mV) +10 dBu (2.451 V) +30 dBu (24.51 V) LINE 13/14 – 15/16 - - 10kΩ 600Ω Lines -30 dBu (24.5 mV) -10 dBu(245 mV) +10 dBu (2.45 V) Phone jack *5 RCA Pin (Unbalanced)</p>
27	Telephone Hybrid	1	<p>AUDIO INPUT: Transformer balanced on neutrik XLR Input impedance .....&gt;10k Nominal input level: 0dBu Front panel gain control: +/- 10dB Maximum input level: +18dBu Compressor/ Limiter Internal efficient compressor/ limiter for controlling levels to the line. AUDIO LEVEL INDICATION: Large front panel tri colour LED: BLUE = Off hook and level &lt;-10dBu GREEN = level &gt;-10dBu &lt;-3dBu RED = level &gt;-3dBu AUDIO OUTPUT: Transformer balanced on neutrik XLR Output impedance.....50 Ohms Nominal output level: 0dBu</p>



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			<p>MAXIMUM output level typically +6dBu (limitation is level of audio on telephone line)</p> <p>Front Panel gain control: +/-10dB TELEPHONE LINE: LINE TYPE: Direct Exchange Line (DEL) (standard analogue line used worldwide) Line Connector: RJ14 6P6C (RJ11 6P2C compatible) CONNECTOR PINOUT: Can be switched between PINS 2/5 and 3/4 (provides Worldwide compatibility)</p> <p>PINOUT SWITCH: Rear panel recessed</p>
28	Intercom System	1	<p>Tally 2 x 15 Pin DSub Sockets for Tally A and B MIC / Headset 3.5 mm Stereo Jack Socket for Headphone / Microphone combination Headset Impedance 8-600 Ohms 100 mW (min) Headphone ¼" (6.3mm) Stereo Headphone Socket Headset Impedance 8-600 Ohms 100 mW (min)</p> <p>Light Socket (DC 12 V)</p> <p>3 PIN XLR Connector PIN 2: 12V PIN 3: GND Light Power Consumption: 12 V / 100 mA (MAX.) Microphone 3 PIN XLR / ¼" (6.3mm) Jack Microphone Socket</p> <p>Switchable Condenser / Dynamic Input Microphone Level - 67 dB Frequency Response 550-3.6 kHz, &lt;+/- 3dB THD &lt; 3% S/N &gt; 50dB Built-in Speaker 70mm x 30mm 32 Ohm 3 Watts</p> <p>Operating Range Up to 200 meters between base station and slave Operating Temp. Range 0~40 °C Dimension (LxWxH) 482 x 127 x 46 mm Weight 1.9 kg Power DC 12V, 8W What's in the Box 1 x ITC-100 Base Unit 4 x ITC-100SL Belt Pack 4 x ITC-100SL Carry Case 4 x Cable 5piin XLR to XLR</p> <p>4 x 3.5mm Jack to 3.5mm Jack Cable 4 x Headset with microphone 4 x Tally LED Indicator 1 x XLR Gooseneck Microphone 1 x XLR Gooseneck Light 1 x 12V 1A Power Supply Unit</p>
29	Storage NAS box 40 TB	1	<p>CPU Model Realtek RTD1619B CPU Quantity 1, CPU Core 4, CPU Architecture 64-bit, CPU Frequency 1.7 GHz, Hardware Encryption Engine Memory System Memory 2 GB DDR4 non-ECC Notes Synology reserves the right to replace memory modules with the same or higher frequency based on supplier's product life cycle status. Rest assured that the compatibility and stability have been strictly verified with the same benchmark to ensure identical performance.</p> <p>Storage Drive Bays 4 Drive Type (See all supported drives) 3.5" SATA HDD 2.5" SATA SSD Hot Swappable Drive*</p> <p>External Ports RJ-45 1GbE LAN Port 2 USB 3.2 Gen 1 Port 2</p> <p>Notes This device's 1GbE LAN ports have a maximum transmission unit (MTU) size of 1,500 bytes. Appearance Size (Height x Width x Depth) 184 mm x 168 mm x 230 mm Weight 2.21 kg Others System Fan 80 mm x 80 mm x 2 pcs Fan Speed Mode Full-Speed Mode Cool Mode Quiet Mode Brightness Adjustable Front LED Indicators Power Recovery</p>



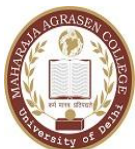
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		<p>Noise Level* 20.6 dB(A) Scheduled Power On / Off Wake on LAN / WAN Power Supply Unit / Adapter 90 watts AC Input Power Voltage 100V to 240V AC Power Frequency 50/60 Hz, Single Phase Power Consumption* 32.41 watts (Access) 4.97 watts (HDD Hibernation) British Thermal Unit 110.52 BTU/hr (Access) 16.95 BTU/hr (HDD Hibernation) Notes For more information on how power consumption is measured, refer to this article. Noise Level Testing Environment: Fully loaded with Seagate 2TB ST2000VN000 hard drive(s) in the idle state. Two G.R.A.S. Type 40AE microphones, each set up 1 meter away from the Synology NAS at the front and rear. Background noise: 16.49-17.51 dB(A); Temperature: 24.25-25.75°C; Humidity: 58.2-61.8% Temperature Operating Temperature 0°C to 40°C (32°F to 104°F) Storage Temperature -20°C to 60°C (-5°F to 140°F) Relative Humidity 5% to 95% RH Certification FCC CE BSMI VCCI RCM UKCA EAC CCC KC BIS Warranty 2-year hardware warranty, extendable to 4 years with Extended Warranty Plus Notes The warranty period starts from the purchase date as stated on your purchase receipt. (Learn more) Extended Warranty Plus is only available in Europe and North America. EW201/EW202 is only available in Asia, Africa, and Oceania. For exact availability information please visit their respective websites. Environment RoHS Compliant Packaging Content Main Unit X 1 Accessory Pack X 1 AC Power Adapter X 1 AC Power Cord X 1 RJ-45 LAN Cable X 2 Quick Installation Guide X 1 Optional Accessories Enterprise Series 3.5" SATA HDD: HAT5300 Series Plus Series 3.5" SATA HDD: HAT3300 Series Enterprise Series 2.5" SATA SSD: SAT5200 Series</p>
30	Audio Monitor	<p>2</p> <p>Bi-amplified design with 70 watts of distributed power for cohesive, accurate sound 5" low-frequency drivers with Kevlar cones for rich, defined lows 1" high-frequency drivers with natural silk domes and integrated waveguides for smooth, clear highs Optimized rear ports for extended low-frequency response Magnetic shielding eliminates interference with other electronic equipment XLR balanced and 1/4" balanced/unbalanced inputs for connecting mixers, amplifiers, instruments, DJgear, and more Volume control Includes two isolation pads Frequency Response: 56Hz-22kHz Crossover Frequency: 3 kHz Low-Frequency Amplifier Power: 40 watts High-Frequency Amplifier Power: 30 watts Maximum Signal-To-Noise (Dynamic Range): &gt; 100 dB (typical A-weighted) Polarity: Positive signal at + input produce outward LF cone displacement Input Impedance: 20 k ohms balanced, 10 k ohms unbalanced Input Sensitivity: 85 mV pink noise input produces 90 dBA</p>



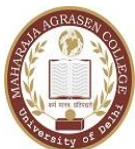
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			output SPL at one meter with volume control at maximum Power: Factory programmed for either 115V ~50/60 Hz or 230V ~50/60 Hz Protection: RF interference, output current limiting, over temperature, turn-on/off transient, subsonic filter, external mains fuse Cabinet: Vinyl-laminated MDF Size: 7.7" x 7" x 10"; 19.5cm x 17.6cm x 25.2cm Weight: 11 lbs./unit; 5 kg.
	<b>Audio Studio</b>		
31	Condenser Mic	2	Acoustic Principle Pressure Gradient Active Electronics JFET impedance converter with bipolar output buffer Capsule 1.00" Polar Pattern Cardioid, Figure 8, Omnidirectional Address Type Side Frequency Range 20Hz - 20kHz Output Impedance 200Ω Maximum SPL 147dB SPL Maximum Output Level 16.0mV (@ 1kHz, 1% THD into 1KΩ load) Sensitivity -36.0dB re 1 Volt/Pascal (16.00mV @ 94 dB SPL) +/- 2 dB @ 1kHz Equivalent Noise Level (A-Weighted) 7dBA Power Requirements P24 and P48 Output Connection XLR
32	Dynamic mic	2	Transducer principle dynamic Frequency response 40 - 16,000 Hz Pick-up pattern cardioid Sensitivity (free field, at 1 kHz) 2.7 mV/Pa Nominal impedance (at 1 kHz) 350 Ω Min. terminating impedance 1 kΩ Connector XLR-3 Temperature range 0 °C to +40 °C Dimensions ø 48 x 180 mm Weight 330 g
33	Audio interface	1	Converters 24-bit Sample rates 44.1, 48, 88.2, 96, 176.4, 192 kHz, Analog inputs 2 x XLR/TRS combo-style mic/guitar inputs, 8 x 1/4" TRS line inputs (balanced/unbalanced), Analog outputs 2 x XLR balanced main out, 8 x 1/4" balanced TRS line out 2 x 1/4" TRS stereo headphone Digital I/O 16 channels of ADAT optical at 1x sample rates 8 channels of SMUX optical at 2x sample rates 2-channel TOSlink (optical S/PDIF) up to 96 kHz 2-channel RCA S/PDIF up to 96 kHz Total I/O 28 inputs and 30 outputs at 1x sample rates 20 inputs and 22 outputs at 2x sample rates 10 inputs and 10 outputs at 4x sample rates Computer I/O 1 x Thunderbolt (compatible with 1 and 2) 1 x USB 2.0 (compatible with 3.0) Sync I/O 1 x SMPTE time code in (LTC) 1 x SMPTE time code out (LTC) 1 x word clock in 1 x word clock out Headphone output 1 x 1/4" TRS stereo phone (assignable) 1 x 1/4" TRS stereo phone (mirrors main outs) Phantom power 2 x individual +48V Front panel 2 x XLR/TRS combo mic/guitar in 2 x 1/4" TRS phone 2 x digital rotary encoders • phone/main volume 2 x digital rotary encoders • mic trim 4 x switches • Pad and 48V Phantom 4 x digital rotary encoders for LCD control 2 x 16 character LCD 8 x 4-segment ladder LEDs • 1/4-inch analog in 8 x activity LED • 1/4-inch analog out 2 x 4-segment ladder LEDs • RCA S/PDIF in 2 x activity LED • RCA S/PDIF out 2 x 10-segment



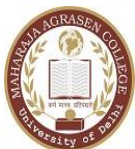
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			LEDs • mic in with V-Limit 2 x 5-segment ladder LEDs • main outs 6 x LED • sample rate indicator 1 x LED • LOCK/TACH indicator 2 x activity LEDs • optical bank A/B 1 x activity LED • MIDI in/out 1 x AC power switch Power International 100-240V auto switching supply 50-60 Hz • 20 Watts
34	16-Channel Mixer Console	1	Input Terminals PAD 26 dB GAIN Trim Position Actual Load Impedance For Use With Nominal Input Level Connector Sensitivity *1 Nominal Max. before clip MIC/LINE 1 – 8 OFF +64 dB 3kΩ 50-600Ω Mics/Lines -80 dBu (0.077 mV) -60 dBu (0.775 mV) -40 dBu (7.75 mV) Combo jack *2(Balanced) +20 dB -36 dBu (12.3 mV) -16 dBu (122.8 mV) +4 dBu (1.228 V) ON +38 dB -54 dBu (1.55 mV) -34 dBu (15.46 mV) -14 dBu (154.6 mV) -6 dB -10 dBu (245 mV) +10 dBu (2.451 V) +30 dBu (24.51 V) MIC 9/10, 11/12 - +64 dB 3kΩ 50-600Ω Mic -80 dBu (0.077 mV) -60 dBu (0.775 mV) -40 dBu (7.75 mV) XLR-3-31 *3 (Balanced) +20 dB -36 dBu (12.3 mV) -16 dBu (122.8 mV) -6 dBu (388.2mV) LINE 9/10, 11/12 - +38 dB 10kΩ 600Ω Lines -54 dBu (1.55 mV) -34 dBu (15.46 mV) -14 dBu (154.6 mV) Phone jack *5 (Unbalanced) -6 dB -10 dBu (245 mV) +10 dBu (2.451 V) +30 dBu (24.51 V) LINE 13/14 – 15/16 - - 10kΩ 600Ω Lines -30 dBu (24.5 mV) -10 dBu(245 mV) +10 dBu (2.45 V) Phone jack *5 RCA Pin (Unbalanced)
35	Audio Monitor	2	Panel: Rear Max. Power Consumption: 132 W, Weight: 12.6 lbs (5.7 kg), Height x Width x Depth: 11.7" x 7" x 11.7" (298 mm x 179 mm x 297mm), Warranty: 5 years (2 years warranty plus 3 years optional with product registration), Delivery Contents: Power cord, Quick Start Guide, Audio Input Connectors, Analog: XLR / RCA, Input Impedance: 10 kΩ / 20 kΩ, Amplification Woofer, Amplifier Type: PWM, Amp. Power RMS: 50 W, Tweeter Amplifier Type: PWM Amp. Power RMS: 20 W Frequency Response: 45 Hz – 25 kHz (-6 dB) THD > 80 Hz: 0.5 % Max. SPL per pair at 1 m: ≥106 dB Crossover Frequency: 3 kHz, Drivers Woofer Basket Diameter: 5" Voice Coil Diameter: 1" Cone Material: Polypropylene Tweeter Type: U-ART, Diaphragm Area: 4 inch <sup>2</sup> (2420 mm <sup>2</sup> ) Equiv. Diaphragm Diameter: 1.9" (48 mm) Velocity Transform Ratio: 4 to 1 Diaphragm Weight: 0.17 g Waveguide: HPS Control Options Input Sensitivity: -10 to +4 dB Gain: Yes High Shelf EQ > 5 kHz: - 2 dB, 0 dB, +2 dB Low Shelf EQ < 300 Hz: - 2 dB, 0 dB, +2 dB
36	Headphone	1	32 ohms - leatherette, 80 & 250 ohms - grey velour, Over-ear, Operating principle Closed, Transmission Type Wired, Nominal Headband pressure Firm fit for professional use, approx. 3.5 - 5.5 N Remote Without Remote, Weight headphones without cable ≤270 g, Headphone frequency response 5 - 35.000 Hz Nominal sound pressure level 96 dB Sound coupling to the ear Circumaural (around the ear)



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37	Headphone	5	Transmission Type Wired, Nominal Headband pressure Firm fit for professional use, approx. 3.5 - 5.5 N Remote Without Remote, Weight headphones without cable $\leq 270$ g, Headphone frequency response 5 - 35.000 Hz Nominal sound pressure level 96 dB Sound coupling to the ear Circumaural (around the ear)
38	Headphone amplifier	1	Panel: Rear, Max. Power Consumption: 132 W, Weight: 12.6 lbs (5.7 kg), Height x Width x Depth: 11.7" x 7" x 11.7" (298 mm x 179 mm x 297mm) Warranty: 5 years (2 years warranty plus 3 years optional with product registration), Delivery Contents: Power cord, Quick Start Guide, Audio Input Connectors Analog: XLR / RCA, Input Impedance: 10 kOhm / 20 kOhm, Amplification Woofer, Amplifier Type: PWM, Amp. Power RMS: 50 W, Tweeter Amplifier Type: PWM Amp. Power RMS: 20 W
39	Mic Stand long	4	Heavy duty, lightweight leg housing for dependable performance and ease of transportation. Nonslip rubber feet prevent skids to keep mics safely in place. Burly clutch adjusts the height 39"-62" for precise, reliable mic placement. Telescopic 20"-35.8" boom adjusts in angle for precise mic placement.
40	Audio Editing Software Educational	1	Neendo
41	Active LED 2.5 mm wall 12.5 fit x 4.25 fit	1	Display Type : Indoor(Curved with Straight Module) Model : P2.5 Pixel Pitch : 2.5mm Required Size (H x W): (4.2 x12.6)ft. Resolution (H xW): (512x1536)pixels Controller- (1x HDMI, 1xEthernet,1xUSB ,Wi-Fi)
42	CCTV 8 Channel DVR with 8 Cameras, IP Based	1 Lot	Support 8 channel IP camera input Instastream/H.265/Smart H.264+/H.264 codec decoding Up to 8MP resolution preview and playback Max 80Mbps Network Bandwidth Support 1 SATA HDDs up to 8TB Each, 2 USB Ports (USB2.0) VGA/HDMI simultaneous video output, maximum resolution of HDMI is 1080P Support Multi-brand network cameras ONVIF Version conformance Mobile Software: iCMOB, gCMOB CMS Software: KVMS Pro 4MP Full-colour Guard+ Network IR Bullet Camera - 30Mtr. 1/3" 4MP PS CMOS Image Sensor (0.84667cm) 2560(H) x 1440(V) H.265/H.264/JPEG/AVI/MJPEG DWDR, BLC, HLC, White Balance 3.6mm fixed lens (2.8mm optional)



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			IR Range of 30 Mtr. , PoE Networking standard: IEEE 802.3i 10BASE-T, IEEE 802.3u 100BASE-TX, IEEE 802.3x Flow Control, IEEE 802.3af/at/bt Power over Ethernet Support 6KV lightning protection, 8KV surge protection. PoE Power Budget : 120W. Support bt 60W High Power (PoE Port 7~8)
43	Online UPS 10KVA	1	High Performance • kVA=kW • True Input PF 0.99 • True output Unity PF 1 • Input THDi 3% • Output THDv 1% • Higher Power Density • Higher Efficiency up to 95% • Support Critical Virtualization High Reliability and Adaptability • Wide Input Voltage Range • Inbuilt Hardware Current Limit Technology. • Upgraded Phase Lock Algorithm • Inbuilt Over-voltage Cut-off Device • Inbuilt Over Temperature Protection. • Up to 50 Degree Celsius operation @50% Load (Specific to XL Model) • Better Overload Protection up to 105% Constant High Flexibility and Availability • Adjustable Battery Voltage 192 Vdc-240 Vdc. • Adjustable Charging Current 1.4 A-4 Amps • Parallel Operation up to 3 UPS's. • Better Short Ckt Handling Capacity. • Auto Fault Recovery. • Inbuilt Maintenance Bypass Switch. • Conformal Coated Boards. • More Accessories
44	SYSTEM INTEGRATION With Project Planning, Flow Diagram, Starting from Production, Post Production, Injest & Payout till delivery of content for the broadcasting( Which Includes Training of Technical Team for further operational and maintenance of the complete production, post production & payout)	1	A Lot
45	Cable, connector, convertor and accessories as per actual	1	A Lot

## CIVIL AND ELECTRICAL WORK

S.No	Description	Qty
1	<b>STUDIO VIDEO ACCOUSTICS WORKS</b>	1640



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	Providing And Fixing GI Stud 2"x1.5" GI Floor1.5"x2" Rockwool 48 density 50KG Angle Patti 25MMx25MM Fulton Tile 2'x2' 12.5MM Joining with fiber tape compound finishing and white wash white colour 3' Wooden 12MM Ply Laminate 1MM Virgo/Advance any colour Adhesive HS And Accessories & Hardware Gypsum Screw 25MM Black 1.5" Screw PVC fastener 6MM X 35MM 35/8 Minas Screw 20 No. 3/4 Head Less Nail	
2	<b>STUDIO AUDIO ACCOUSTICS WORKS</b>	968
	Providing And Fixing GI Stud 2"x1.5" GI Floor1.5"x2" Rockwool 48 density 50KG Angle Patti 25MMx25MM Fulton Tile 2'x2' 12.5MM Joining with fibre tape compound finishing and white wash white colour 3' Wooden 12MM Ply Laminate 1MM Virgo/Advance any colour Adhesive HS And Accessories & Hardware Gypsum Screw 25MM Black 1.5" Screw PVC Fastener 6MM X 35MM 35/8 Minas Screw 20 No. 3/4 Head Less Nail	
3	<b>Glass Partition</b>	1707
	12MM Toughened Glass With Frame Support	
4	<b>STUDIO AUDIO DOOR</b>	2
	Providing & Fixing Wooden Door Frame Marandi 6"x2.5" 12MM Ply Century Sainik/Green MR 10MM Cement Board Rockwool 48density 50MM Wooden 2"x2.5" Window Glass 12MM Laminate 1MM Virgo/Advance any colour with Accessories H Handle Door Closer That Lock L Daraz Hingesh GI Door Patti & Door seal with Magnet Final Finishing Lacker Shiler Mate Polish	
5	<b>STUDIO VIDEO DOOR</b>	1
	Providing & Fixing Wooden Door Frame Marandi 6"x2.5" 12MM Ply Century Sainik/Green MR 10MM Cement Board Rockwool 48density 50MM Wooden 2"x2.5" Window Glass 12MM Laminate 1MM Virgo/Advance any colour with Accessories H	
6	<b>FLUSH DOOR</b>	4
	12MM Toughened Glass With Frame Support Handle Lock Final Finishing	
7	<b>VIDEO STUDIO LIGHT GRID</b>	576
	Providing & Fixing MS Pipe 1.5" Round 48OD Tie Road 10MM & Fastener Nut Bolt Final Finishing Mate Black	
8	Flooring Studio (Vinyl)	
9	<b>FLOOR CARPET/VINYL</b>	2196
	Providing & Fixing Carpet Tiles 2'X2' 8MM & Pasting Chemical	
10	<b>PCR MCR TABLE</b>	1



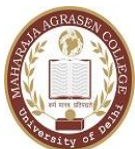
# MAHARAJA AGRASEN COLLEGE

University of Delhi

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	Providing & Fixing Board Century Sainik/Green MR 19MM Laminate 1MM Virgo/Advance any colour Ajwinding Tape 2MM X22 MM & 2MM X 45MM Adhesive PVC Chemical	
11	MAKEUP ROOM TABLE WITH FRAME LUKING GLASS	1
	Providing & Fixing Board Century Sainik/Green MR 19MM Laminate 1MM Virgo/Advance any colour Luking Glass 5MM & Glass Frame 6"X3"	
12	<b>CHANGING ROOM CUP BOARD 9.8X6'</b>	58.5
	Providing & Fixing Board Century Sainik/Green MR 19MM Laminate 1MM Virgo/Advance any colour Hungesh L Bihari Hapley Ajwinding Tape 2MM X22MM & Accessories	
13	<b>EDITING TABLE 3 SHEET</b>	1
	Providing & Fixing Board Century Sainik/Green MR 19MM Laminate 1MM Virgo/Advance any colour Ajwinding Tape 2MM X22 MM & 2MM X 45MM Adashive PVC Chemical	
14	<b>AUDIO STUDIO RJ TABLE</b>	1
	Providing & Fixing Board Century Sainik/Green MR 19MM Laminate 1MM Virgo/Advance any colour Ajwinding Tape 2MM X22 MM & 2MM x 45MM adhesive PVC Chemical	
15	<b>CHROMA SET</b>	1
	Providing & Fixing Ply 18MM Centry Sainik/Green MR MDF Century/Green 6MM Flexible Ply 6MM & Hardware Final Finishing Parrot Green Carpet & Pasting Adhesive chemical	
16	<b>Complete REAL SET with bar chairs</b>	1
	Providing & Fixing Board 19MM Century Sainik/Green MR Ply 18MM Century Sainik/Green MR & 12MM Ply & 6MM Ply MDF Century/Green 12MM Acrylic Sheet Cast A Grade 4MM 040 White/ 3MM LED Light White Blue Red Yellow/RBG Laminate 1MM Virgo/Advance Mate Finish With Print Plate Form 4" Height Final Finishing Vinyl/Carpet Any Colour With Adhesive Chemical	
17	<b>AUDIO STUDIO CEILING</b>	240
	Providing & Fixing RK Grid 24MM X38MM White Colour Tile .9NRC White 2'X2'X15MM	
18	<b>VIDEO STUDIO CEILING</b>	576
	Providing & Fixing RK Grid 24MM X38MM Black Colour Tile .9NRC Black 2'X2'X15MM	
19	<b>GRID FALSE CEILING</b>	1380
	Providing & Fixing RK Grid 24MM X38Mm White Colour Tile White 2'X2'X15MM	



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20	<b>WHITE WASH</b>	2000
	Application of Wall putty of ISI Grade, Primer and acrylic synthetic enamel (3 layers) of desired colors	
21	<b>Electrical</b>	1
	<b>AC 1.5 Ton Split -5 no,2 Ton -Cassette -2 , Split -2 no. cable, switch, AMC, service light etc.</b>	
	Capacity (Tr) 1.5 Tr Star Rating - As Per BEE 4 Star bee rating Power Supply 230 V / 50 Hz / Single Phase Cooling Capacity (Rated Min-Max) 5.20(1.7-5.60)kW Heating Capacity (Rated Min-Max) 5.40(1.4-6.50)kW Total Input (Rated Min-Max)-Cooling 1.57(0.42-1.95)kW Total Input (Rated Min-Max)-Heating 1.48(0.27-2.03)kW ISEER 4.63 Operating Current (Rated)-Cooling 7.0(A) Operating Current (Rated)-Heating 6.6(A) Air Volume (CFM) Indoor Unit(Low/Mid/High/SHi)-Cooling 331/428/524/620 Air Volume (CFM) Indoor Unit(Low/Mid/High/SHi)- Heating 311/428/524/620 Compressor, Refrigerant & Ambient Operations SPL Indoor Unit(Low/Mid/High/SHi) In dB(A)-Cooling 28/36/40/45 SPL Indoor Unit(Low/Mid/High/SHi) In dB(A)-Heating 27/34/41/47 Refrigerant R410A R410A no. cable, switch, AMC, service light etc.	
	Capacity (Tr) 2 Tr Star Rating - As Per BEE 3 Star bee rating Power Supply 230 V / 50 Hz / Single Phase Cooling Capacity (Rated Min-Max) 7.10(1.8-7.10)kW Heating Capacity (Rated Min-Max) 8.10(1.5-8.50)kW Total Input (Rated Min-Max)-Cooling 2.33(0.30-2.33)kW Total Input (Rated Min-Max)-Heating 2.44(0.29-2.70)kW ISEER 4.20 Operating Current (Rated)-Cooling 10.3 (A) Operating Current (Rated)-Heating 10.8 (A) Air Volume (CFM) Indoor Unit(High//Mid/Low)-Cooling 352/428/524/696 Air Volume (CFM) Indoor Unit(High//Mid/Low)-Heating 366/448/573/710	
	Application : Energy Cables for Internal electrification and power Supply to all electrical operated equipments (eg. Fans/Lights/ Appliances etc). Type : HRFR PVC Flexible Cables upto 1.1 kV grade as per IS:694 Size : 0.5 sq. mm to 6 sq. mm in Single core and for above sizes in S/C and Multi Core Sizes on request.	



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<p>Designed with soft switching mechanism which will ensure complete isolation during operation</p> <p>Designed for inductive and resistive loads</p> <p>Easy and fast installation</p> <p>10 Year (against manufacturing defect)</p> <p>Disclaimer: Product Images are for illustrative purpose only and may be differ from the actual product</p>	
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ANNEXURE - "B"

## TECHNICAL BID FORMAT

1	Name of the firm/company/proprietary concern registered	
2	Legal status of the bidder 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	<b>Original Technical Catalogue</b> 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
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Total No. of Item(s) quoted\_\_\_\_\_

**(Signature of Authorized Person)**

**(Name)**

**(Designation)**

**Name of Firm/Company/Agency**

**Contact Details**



# 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	
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Total No. of Item(s) quoted\_\_\_\_\_

Seal and Signature of the bidder



# MAHARAJA AGRASEN COLLEGE

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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 1 <sup>st</sup> Year)  (B)	Rate of CMC (for 2 <sup>nd</sup> Year)  (C)	Rate of CMC (for 3 <sup>rd</sup> Year)  (D)	Total (B+C+D)  (in figures and words)
1.	<u>CMC of Media Lab at Maharaja Agrasen College as per Annexure "A"</u>				

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.



# MAHARAJA AGRASEN COLLEGE

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**Annexure-“D”**

## **AFFIDAVIT**

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

I, \_\_\_\_\_ S/o \_\_\_\_\_ Daughter / 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 competent to sign this affidavit and execute this tender document;
2. I have carefully read and understood entire tender document including all the terms and conditions of the tender and undertake to abide by them;
3. The information / documents furnished along with the above application are true and authentic to the best of my knowledge and belief. I / we, am / are well aware of the fact that furnishing of any false information/fabricated document would lead to rejection of my tender at any stage besides liabilities towards prosecution under appropriate law.
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.
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 15 days, 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 nothing has been concealed therein.

Deponent



# MAHARAJA AGRASEN COLLEGE

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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

In consideration of Maharaja Agrasen College, College of Delhi [hereinafter referred to as COLLEGE], which expression unless repugnant to the context and meaning thereof shall include its successors and assigns] having agreed to exempt M/s \_\_\_\_\_ [hereinafter referred to as supplier /contractor] which expression unless repugnant to the context and meaning thereof shall include its successors and assigns] from depositing with Maharaja Agrasen College sum of Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_) towards security / performance guarantee in lieu of the said contractor having agreed to furnish a bank guarantee for the said sum of Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_) as required under the terms and conditions of contract / work order no \_\_\_\_\_ dated \_\_\_\_\_ [hereinafter referred as the order] placed by college on the said supplier /contractor. We, \_\_\_\_\_ the bank [hereinafter referred to as 'the bank' which expression shall include its successors and assigns] do hereby undertake to pay Maharaja Agrasen College, College of Delhi an amount not exceeding Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_) on the demand made by Maharaja Agrasen College on us due to a breach committed by the said supplier /contractor of the terms and conditions of the contract/order.

1. We \_\_\_\_\_ the bank hereby undertake to pay the amount under the guarantee without any demur merely on a demand from Maharaja Agrasen College, University of Delhi stating that there is a breach by the supplier / contractor of any of the terms and conditions contained in the order or by the reasons of the supplier's / contractor's failure to comply with the terms and conditions as stipulated in the order or amendment(s) thereto. The demand made on the bank shall be conclusive as to the breach of the terms and conditions of the order and as regard to the amount due and payable by the bank under this guarantee, notwithstanding any dispute or disputes raised by the said supplier/contract or regarding the validity of such breach and we agree to pay the amount so demanded by Maharaja Agrasen College, College of Delhi without any demur. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_).



# MAHARAJA AGRASEN COLLEGE

University of Delhi

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2. We, the bank further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said order and that it shall continue to be enforceable till the dues of college under or by virtue of the said order have been fully paid and its claim satisfied or discharged or till Maharaja Agrasen College, University of Delhi certifies that the terms and conditions of the order have been fully and properly carried out by the supplier / contractor and accordingly discharge the guarantee.

3. We the bank, undertake to pay to Maharaja Agrasen College, University of Delhi any money so demanded notwithstanding any dispute or disputes raised by the said supplier /contractor in any suit or proceedings pending before any court or tribunal relating thereto as our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be valid discharge of our liability for payment there under and the said supplier / contractor shall have no claim against us for making such payment.

4. We \_\_\_\_\_ the bank further agree that Maharaja Agrasen College, University of Delhi shall have full liberty, without our consent and without affecting in any manner our obligation \_\_\_\_\_ hereunder \_\_\_\_\_ to \_\_\_\_\_ vary \_\_\_\_\_ any of the terms and conditions of the order /contractor to extend time of performance by the said supplier / contractor from time to time or to postpone for any time or from time to time any of the powers exercisable by the Maharaja Agrasen College, University of Delhi against the said supplier/contractor and to for bear or enforce any of the terms and conditions relating to the order and shall not be relieved from our liability by reason of any such variation or extension being granted to the said supplier / contract or for any for bearance, actor omission on the part of Maharaja Agrasen College, University of Delhi or any indulgence by Maharaja Agrasen College, University of Delhi to the supplier / contractor or by any such matter or thing whatsoever which under the law relating to sureties would but for this provisions have effect of so relieving us.

5. This guarantee will not discharge due to change in the constitution in the bank or the said supplier /contractor.

6. The bank hereby agrees to address all the future correspondence in regard to this bank guarantee to Principal, Maharaja Agrasen College, University of Delhi.

7. We, \_\_\_\_\_ the bank lastly undertaken revoke this guarantee during its currency except with the previous consent of the Maharaja Agrasen College, University of Delhi in writing.

Signed on the \_\_\_\_\_ day of \_\_\_\_\_



# **MAHARAJA AGRASEN COLLEGE**

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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-PP (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**



# **MAHARAJA AGRASEN COLLEGE**

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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**

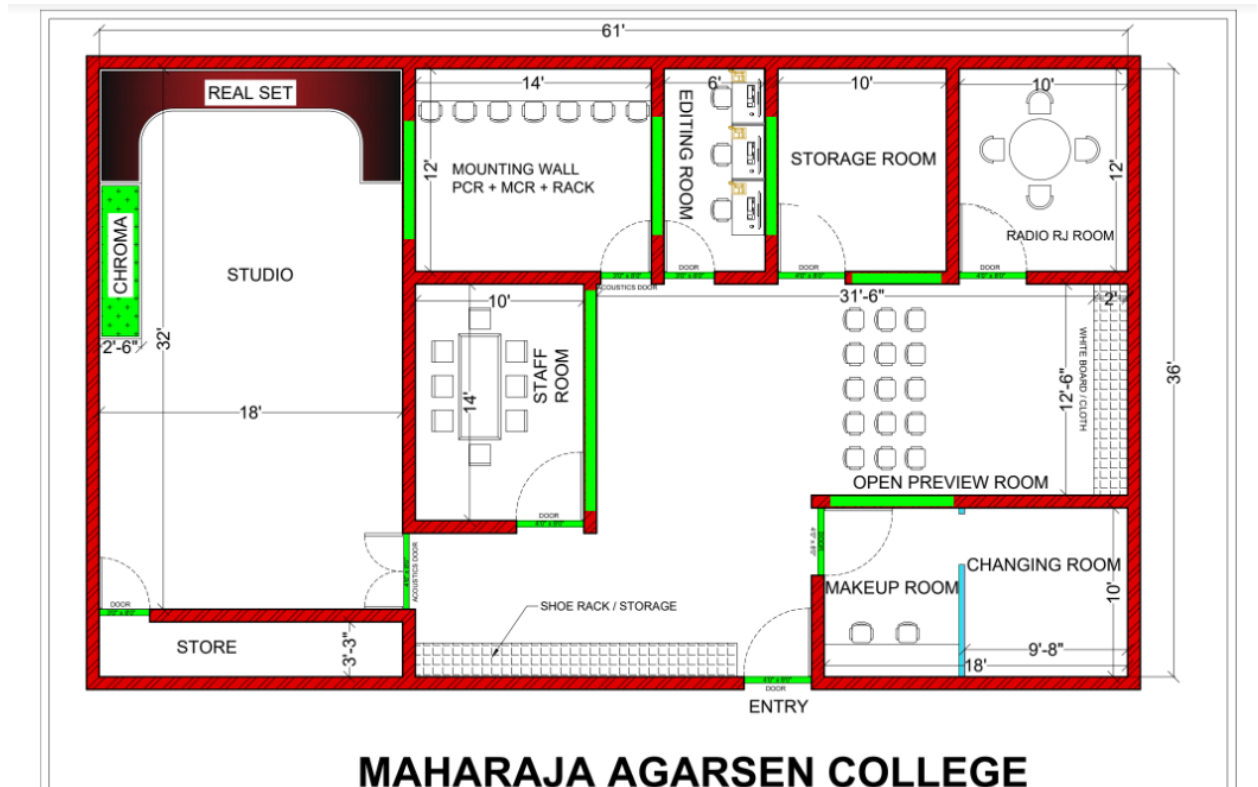


# MAHARAJA AGRASEN COLLEGE

University of Delhi  
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## Layout

### Media Lab



MAHARAJA AGARSEN COLLEGE