

Tele: 080-25228153/ 7238
080-25272332

Air Force School, ASTE
Murugeshpalya
Bengaluru-560 017

ASTE/561/2/8/1/ED

Jan 23

M/s
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Sir,

**REQUEST FOR PROPOSAL/ INVITATION OF QUOTATION FOR
UHD TOUCH INTERACTIVE DISPLAY FOR GV CAMP & AV CAMP
AIR FORCE SCHOOL, ASTE**

1. Air Force School, ASTE invites quotations for Ultra High Definition (UHD) Touch Interactive Display at Air Force School, ASTE.
2. The tender form addressed to your firm is attached to this letter. You may quote your minimum rates on the tender form and put your firm's seal with signature on the same. Last date of receipt of duly filled in tender/ quotations at this School is 31 Jan 23 before 1000 hrs in person or by post in a sealed envelope on the mailing address as mentioned in tender form duly marked on top in CAPITAL LETTERS "QUOTATIONS FOR UHD TOUCH INTERACTIVE DISPLAY" and underlined.

Thanking you,

Yours faithfully,

Annexure: As stated.

(TK Sumesh)
Wing Commander
Executive Director
Air Force School, ASTE

REQUEST FOR PROPOSAL (RFP)

**AIR FORCE SCHOOL, ASTE
NAL, WIND TUNNEL ROAD
MURGESHPALYA, BENGALURU -17
TELE: 080-25272332**

Invitation of Bids for supply of 'QUOTATIONS FOR UHD TOUCH INTERACTIVE DISPLAY AT AIR FORCE SCHOOL ASTE '

Request for Proposal (RFP) No ASTE /561/2/8/1/ED Dated ____ Jan 23

1. Bids in sealed cover are invited for lab items as listed in part-II of this RFP. Please superscribe the above mentioned Title, RFP number and date of opening of the bids on the sealed cover to avoid the bid being declared invalid.

2. The address and contact numbers for sending bids or seeking clarifications regarding this RFP are given below-

- (a) Bids/queries to be addressed to: **Executive Director, AF School, ASTE**
- (b) Postal address for sending the Bids: **As Mentioned above**
- (c) Name/designation of contact personnel: **Executive Director AF School, ASTE**
- (d) Telephone numbers of contact personnel: **080-25272332/ 25276920**
- (e) E-mail ids of contact personnel: **afsaste@yahoo.co.in**

3. This RFP is divided into five parts as follows:

(a) Part I - Contains general information and instruction for the Bidders about the RFP such as the time, place of submission and opening of tenders, Validity period, Mode of tenders etc.

(b) Part II - Contains essential details of the items/services required, such as the Schedule of Requirements (SOR), Technical specifications, Delivery and Consignee details.

(c) Part III - Contains Standard Conditions of RFP, which will form part of the Contract with the successful Bidder

(d) Part IV - Contains special Conditions applicable to this RFP and which will also form part of the contract with the successful Bidder.

(e) Part V - Contains Evaluation Criteria and Format for Price Bids.

4. This RFP is being issued with no financial commitment and the Buyer reserves the right to change or vary any part thereof at stage. Buyer also reserves the right to withdraw the RFP, should it become necessary at any stage.

PART I - GENERAL INFORMATION

1. **Last Date and Time for Depositing the Bids.** 31 Jan 23 at 1000 hrs

(Date to be mentioned in terms of DD MM YEAR)

The sealed Bids (both technical and Commercial, in case two bids are called for) should be deposited/reach by the due date and time. The responsibility to ensure this lies with the Bidder.

2. **Manner of Depositing the Bids.** Sealed Bids should be either dropped in the Tender Box marked as “**QUOTATIONS FOR UHD TOUCH INTERACTIVE DISPLAY AT AIR FORCE SCHOOL ASTE**” or sent by registered post at the address given above so as to reach by the due date and time. Late tenders will not be considered. No responsibility will be taken for postal delay or non-delivery /non receipt of Bid documents. Bids sent by FAX or e-mail will not be considered (unless they have been specifically called for by these modes due to urgency).

3. **Time and Date for Opening of Bids.** 31 Jan 23 at 1200hrs

(If due to any exigency, the due date for opening of the bids is declared a closed holiday, the Bids will be opened on the next working day at the same time or on any other day/time, as intimated by the Buyer).

4. **Location of the Tender Box.** Main Guard Room, ASTE Air Force, Wind Tunnel Road, Bangalore 560017. Only those Bids that are found in tender box will be opened. Bids dropped in the wrong Tender Box will be rendered invalid).

5. **Place of Opening of the Bids.** At the Office of President CLPC. The Bids will be opened in the presence of bidders or their authorized representative who may be present at that time (If due to any exigency, the due date for opening of the bids is declared a closed holiday, the Bids will be opened on the next working day at the same time or on any other day/time, as intimated). The Bidders may depute their representative, duly authorized in writing, to attend of Bids on the due date and time Rates and important commercial/technical clauses quoted by all Bidders will be read out in the presence of the representatives of the Bidders. This event will not be postponed due to non-presence of your representative. Cutting/alteration in Bids will not be accepted and the Buyer has absolute right to reject the tender without assigning reasons whatsoever it may be.

6. **Forwarding of Bids.** Bids should be forwarded by bidders under their original memo/letter pad inter alia furnishing details like TIN number, GST number, Bank address with NEFT Account if applicable, etc and complete postal & e-mail address of their office. They should also submit price bid Performa of the RFP, duly completed along with their bids.

7. **Two-Bid System.** Technical and commercial bids should be submitted separately as per Appendix ‘A’ and ‘B’ of RFP. Bids should be sealed in separate envelopes and marked as “**TECHNICAL BID FOR UHD TOUCH INTERACTIVE DISPLAY AT AIR FORCE SCHOOL ASTE**” and “**COMMERCIAL BID FOR UHD TOUCH INTERACTIVE DISPLAY AT AIR FORCE SCHOOL ASTE**”. In two-bid system, only the Technical Bid would be opened on the time and date mentioned above. Date of opening of the Commercial Bid will be intimated after acceptance of the Technical Bids. Commercial Bids of only those firms will be opened, whose Technical Bids are found compliant suitable after technical evaluation is done by the competent authority.

8. **Clarification regarding contents of the RFP.** A prospective bidder who requires clarification regarding the contents of the bidding documents shall notify to the Buyer in writing about the clarification sought not later than 7 (Seven) days after issue of RFP. A Pre-Bid Conference can be conducted within 14 days so that issues if any may be clarified to the vendors. Copies of the query and clarification by the purchaser will be sent to all prospective bidders who have received the bidding documents within 21 days and the Bids would be opened on the 28th day after the issue of RFP.
9. **Modification and withdrawal of Bids.** A bidder may modify or withdraw his bid after submission provided that the written notice of modification or withdrawal is received by the Buyer prior to deadline prescribed for submission of bids. A withdrawal notice may be sent by fax but it should be followed by a signed confirmation copy to be sent by post and such signed confirmation should reach the purchaser not later than the deadline for submission of bids. No bid shall be modified after the deadline for submission of bids. No bid may be withdrawn in the interval between the deadline for submission of bids and expiration of the period of bid validity specifies. Withdrawal of a bid during this period will result in Bidder's forfeiture of bid security. During evaluation and comparison of bids, the Buyer may, at its discretion, ask the bidder for clarification of his bid. The request for clarification will be given in writing and no change in prices or substance of the bid will be sought, offered or permitted. No post-bid clarification on the initiative of the bidder will be entertained.
10. **Clarification Regarding Contents of the Bids during Evaluation.** During evaluation and comparison of bids, the Buyer may, at its discretion, ask the bidder for clarification of his bid. The request for clarification will be given in writing and no change in prices or substance of the bid will be sought, offered or permitted. No post-bid clarification on the initiative of the bidder will be entertained.
11. **Rejection of Bids.** Canvassing by the Bidder in any form, unsolicited letter and post-tender correction may invoke summary rejection with forfeiture of EMD. Conditional tenders will be rejected.
12. **Unwillingness to quote.** Bidders unwilling to quote should ensure that intimation to this effect reaches before the due date and time of opening of the Bid, failing which the defaulting Bidder may be delisted for the given range of items as mentioned in this RFP.
13. **Validity of Bids.** The Bids should remain valid till six months from the last date of submission of the Bids.
14. **Earnest Money Deposit and Cost of Tender Form.** Bidders are required to submit Earnest Money Deposit (EMD) for amount of **Rs. 2,50,000/-** along with their bids. The EMD may be submitted in the form of an Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheques or Bank Guarantee from any of the public sector banks or a private sector bank authorized to conduct government business. EMD is to remain valid for a period of forty-five days beyond the final bid validity period. EMD of the unsuccessful bidders will be returned to them at the earliest after expiry of the final bid validity and latest on or before the 30th day after the award of the contract. The bid security of the successful bidders would be returned, without any interest whatsoever, after the receipt of Performance Security from them as called for in the contract.
15. Other standard condition of RFP given as part III Appx 'C' to DPM 2009 is applicable. These conditions can be viewed at <http://www.mod.nic.in>

Part-II: Essential Details of items/Services

Request for Proposal (RFP) No ASTE /561/2/8/1/ED Dated ___ Jan 23

1. **Schedule of Requirements** – List of items/services Supply Ordered is as follows:

SI No	Description with feature & Specifications	Quantity Required	Remarks
1	Supply of All In one 86" UHD Touch Interactive Display	4	
2	Supply of All In one 75" UHD Touch Interactive Display	20	
3	Supply of 4K Video Conference Camera with following Minimum Specification: 4K Ultra Wide-angle Web Cam, 4K@ 25fps 120° DFoV ½.8" SONY sensor HDR, 2-element Mic Array Noise reduction algorithm, Audio Pick up upto 4 Meters, Auto Focus capability, White Balance, Exposure Auto, I/O Port- USB Type- C (Device) x 1	24	
4	Supply of Wireless Lapel Mic set with following Minimum Specifications: Wireless Lapel Mic with Body pack Transmitter & UHF True Diversity Receiver set	24	
5	Supply of 1KVA UPS with following Minimum Specifications: Online UPS with 1KVA Rating, build in battery for Min 15 mins back up	24	
6	Preferred product- Max hub/ LG/ BenQ		
7	Sliding shutter mechanism for above interactive boards – 2 fixed + 2 sliding white boards. 12' width, 4' height, 1' depth	24	

2. **Technical Details: (Detail Tech Specification of item to be purchased/ Service):** Clear details of items are mentioned in the schedule of requirements. The items supplied should be of best quality and should confirm to the standard specification laid down.

3. **Two- Bid System.** The quotation must be submitted by the bidder under two-bid system i.e. Technical Bid and Commercial Bid to be submitted in separate covers as per the formats given in Appendix 'A' & 'B' respectively. The documents mentioned in Para 4 above should be enclosed with the Technical bid. Bidders are also required to furnish clause by clause compliance of eligibility criteria bringing out clearly the deviations from the eligibility criteria if any. The Bidders are advised to submit the compliance statement in the following format along with Technical Bid:-

Parameter / Eligibility Criteria of the Tender Enquiry	Documents, certificates submitted in response	Compliance to Parameter / Eligibility Criteria of the Tender Enquiry – Whether YES / NO	In case of non-compliance, deviation from TE to be specified unambiguous terms

4. **Delivery period.** Delivery/Installation period for supply of items would be 30 days from the effective date of Supply Order. Please note that Supply Order can be cancelled unilaterally by the Buyer in case items are not received within the Supply Ordered delivery period. Extension of Supply Ordered delivery period will be at the sole discretion of the Buyer, with Applicability of LD clause.

5. **Eligibility Criteria.** Bidding Firms fulfilling the following criteria which are mandatory will be eligible for consideration:-

(a) The bidder firm shall have preferably **10 years** experience in the field. That the bidder shall submit details of organizations, where he has undertaken such similar services. The details should include Name and Address of the Organisation, Contact number of the organisation and period of contract.

(b) Vender should be OEM certified. In case the bidder is not the OEM, tender specific authorisation Certifications from the OEM for each item/items quoted in the bid will be produced by the seller. Bidders without the OEM / MAF certifications will be rejected/ disqualified.

(c) The Annual Turn over of the vendor should be more than 7 crore. Enclose audited accounts statement. The vendor must have executed similar project for similar value. The proof of same is to attached.

(b) The bidder/Infrastructure provider may be a proprietary firm, Public Sector firm partnership firm, Private/Public Limited Company, Corporate body legally constituted as per law with valid registration with the competent on the last date of submission of the bid.

(c) The bids shall be valid and open for acceptance of the Competent Authority of Buyer for a period of 180 days of opening of the tenders and no request for any grounds by successful bidder will be entertained.

(d) The bidder shall submit the technical specifications/details as per Appendix 'A' of this RFP.

(e) The bidder shall submit the commercial specifications/details as per Appendix 'B' of this RFP.

(f) The bidder shall submit the other required details as per Appendix 'C' along with Technical bid.

(g) The bidder should provide documents listed at Appendix 'D' to this RFP along with Technical bid.

6. **Consignee details** – At Air Force School, ASTE, GV Camp, NAL, Wind Tunnel Road, Murugeshpalya, Bengaluru-17 & AV Camp, Marathahalli, Bengaluru-*37

7. **Mode of dispatch** - The store shall be dispatched to the consignee by supplier and installed under his own arrangement and cost.

8. Container Pack – (As per requirement)

Part III – Standard Conditions of RFP

The Bidder is required to give confirmation of their acceptance of the Standard Conditions of the Request for Proposal mentioned below which will automatically be considered as part of the contract concluded with the successful Bidder as selected by Air Force School ASTE, Bengaluru. Failure to do so may result in rejection of the Bid submitted by the Bidder.

1. **Law.** The contract shall be considered and made in accordance with the laws of the Republic of India. The contract shall be governed by and interpreted in accordance with the laws of India.

2. **Jurisdiction of Courts.** The courts of the place from where the acceptance of tender has been issued i.e. Bengaluru shall alone have jurisdiction to decide any dispute arising out of or in respect of the contract.

3. **Arbitration.** Any dispute or differences/disagreement arising between the parties hereto, touching the subject matter of this agreement or respective rights and duties (except as to any matter the decision or determination whereof is provided for by these conditions), which cannot be settled amicably, shall within sixty (60) days or such longer period as may be mutually agreed upon, from the date on which either party informs the other in writing by a notice that such dispute or differences/ disagreement exists, will be referred for sole arbitration of a person from outside the organization who is/was neither an employee, consultant, advisor nor has any past or present financial/business/professional or other kind of relationship with a party...”.

4. **Penalty for Use of Undue Influence.** The Infrastructure Provider (IP-I) / Service Provider undertakes that he has not given, offered or promised to give, directly or indirectly, any gift, consideration, reward, commission, fees, brokerage or in document to any person in service of Air Force School ASTE, Bengaluru or otherwise in procuring the Contracts or forbearing to do or for having done or forborne to do any act in relation to the obtaining or execution of the present contract or any other contract with the Government of India for showing or forbearing to show favour or disfavour to any person in relation to the present Contract or any other Contract with the Government of India. Any breach of the aforesaid undertaking by the Seller or any one employed by him or acting on his behalf (whether with or without the knowledge of the Service Provider) or the commission of any offers by the Service Provider or anyone employed by him or acting on his behalf, as defined in Chapter IX of the Indian Penal Code, 1860 or the Prevention of Corruption Act 1986 or any other Act enacted for the prevention of corruption shall entitle the Buyer to cancel the contract and all or any other contracts with the Service Provider and recover from him the amount of any loss arising from such cancellation. A decision of Competent Authority of Air Force School ASTE or his nominee to the effect that a breach of the undertaking had been committed shall be final and binding on the Service provider. Giving or offering of any gift, bribe or inducement or any attempt at any such act on behalf of the Service Provider towards any officer / employee of the Buyer or to any other person in a position to influence any officer / employee of Air Force School ASTE, Bengaluru for showing any favour in relation to this or any other contract, shall render the Service Provider to such liability / penalty as Competent Authority of Air Force School ASTE may deem proper, including but not limited to termination of the contract, imposition of penal damages, forfeiture of the Bank Guarantee and refund of the amounts paid by the Infrastructure Provider.

5. **Agents / Agency Commission.** The seller confirms and declares to the Buyer, that he is the only Infrastructure / Service provider referred to in this Contract and has not engaged any individual or firm, whether Indian or foreign whatsoever, to intercede, facilitate or in any way to recommend to the Government of India or any of its functionaries whether officially or unofficially, to the award of the contract to him, nor has any amount been paid, promised or intended to be paid to any such individual or firm in respect of any such intercession, facilitation or recommendation. The seller agrees that if it is established at any time to the satisfaction of the Buyer that the present declaration is in any way incorrect or if at a later stage it is discovered by the Buyer that the Infrastructure Provider has engaged any such individual/firm, and paid or intended to pay any amount, gift, reward, fees, commission or consideration to such person, party, firm or institution, whether before or after the signing of this contract, seller will be liable to refund that amount to Air Force School ASTE. The seller will also be debarred from entering into any other supply contract with the Buyer for a minimum period of five years. Competent Authority of Air Force School ASTE, Bengaluru will also have a right to consider cancellation of the Contract either wholly or in part without any entitlement of compensation to the Infrastructure Provider.

6. **Access to Books of Accounts.** In case it is found to the satisfaction of the Buyer that the Infrastructure Provider has engaged an Agent or paid commission or influenced any person to obtain the contract as described in clauses relating to Agents / Agency Commission and penalty for use of undue influence the seller on a specific request of Air Force School ASTE, Bengaluru, shall provide necessary information/ inspection of the relevant financial documents / information.

7. **Non-disclosure of Contract Documents.** Except with the written consent of Competent Authority of Air Force School ASTE / Seller, other party shall not disclose the contract or any provision, specification, plan, design, pattern, sample or information thereof to any third party.

8. **Termination of the Contract.** Commandant, ASTE, Bengaluru shall have the right to terminate this contract in part or in full in any of the following cases:-

- (a) The delivery of the material is delayed for causes not attributable to Force Majeure for more than (01 month) after the scheduled date of delivery.
- (b) The Seller is declared bankrupt or becomes insolvent.
- (c) The delivery of material is delayed due to causes of Force Majeure by more than (1 month).
- (d) The Buyer has noticed that the Seller has utilized the services of any Indian/foreign agent in getting this Supply Order and paid any commission to such individual/company etc.
- (e) As per decision of the Arbitration Tribunal.

9. **Notices.** Any notice required or permitted by the Supply Order shall be written in the English Language and may be delivered personally or may be sent by FAX or registered pre-paid mail/ airmail, addressed to the last known address of the party to whom it is sent.

10. **Transfer and Sub-letting.** The seller has no right to give, bargain, sell, assign or sublet or otherwise dispose off the Contract or any part thereof to any third party.

11. **Patents and other Industrial Property Rights.** The prices stated in the present contract shall be deemed to include all amounts payable for the use of patents, copyrights, registered charges, trademarks and payment for any other industrial property rights. The seller shall indemnify Air Force School, ASTE, Bengaluru against all claims from a third party at any time on account of the infringement of any or all the rights mentioned in the previous paragraphs, whether such claims arise in respect of manufacture or use.

12. **Amendments.** No provision of present contract shall be changed or modified in any way (including this provision) either in whole or in part except by an instrument in writing made after the date of this contract and signed on behalf of both the parties and which expressly states to amend the present contract.

13. **Taxes and Duties**

(a) If it is desired by the Bidder to ask for GST to be paid as extra, the same must be specifically stated. In the absence of any such stipulation in the bid, it will be presumed that the prices quoted by the Bidder are inclusive of GST and no liability of GST will be developed upon the Buyer.

(b) The taxes will be paid on basic price, sellers are not to be charge GST on service charges and other taxes unless permitted by law for which a copy of notification should be attached with invoice/Bill

(c) Remaining clauses as given in DPM refer <http://www.mod.nic.in>

14. **Liquidated damages:** In the event of the seller's may, at his discretion, withhold any payment until the completion of the supply order. The buyer may also deduct from the seller as agreed, Liquidated Damages to the sum of 0.5% of the supply order price of the delayed/undelivered stores/ services mentioned above for every week of delay or part of a week, subject to the maximum value of the Liquidated Damages being not higher than 10% of the value of delayed stores.

Part IV – Special Conditions of RFP

The Bidder is required to give confirmation of their acceptance of Special Conditions of the RFP mentioned below which will automatically be considered as part of the contract concluded with the successful Bidder as selected by Competent Authority. Failure to do so may result in rejection of Bid submitted by the Bidder.

1. **Option Clause.** This Supply Order has an Option Clause, wherein the Buyer can exercise an option to procure an additional 50% of the original Supply Ordered quantity in accordance with the same terms & conditions of the present Supply Order. This will be applicable within the currency of Supply Order. It will be entirely the discretion of the Buyer to exercise this option or not.
2. **Repeat Order Clause.** This Supply Order has a Repeat Order Clause, wherein the Buyer can order upto 50% quantity of the items under the present Supply Order within six months from the date of successful completion of this Supply Order, cost terms & conditions remaining the same. It will be entirely the discretion of Buyer to place Repeat order or not.
3. **Payment Terms for Indigenous Sellers.** 100% after completion of work and acceptance by the user.
4. **Paying Authority.** Executive Director, AF School, ASTE
5. **Specification.** *As per Schedule of Requirement.*
6. **Force Majeure Clause**
 - (a) Neither party shall bear responsibility for the complete or partially non-performance of any of its obligations (except for failure to pay any sum which has become due on account of receipt of services under the provisions of the present contract), if the non-performance results from such Force majeure circumstances as Flood, Fire, Earthquake and other acts of God as well as War, Military operation, blockade, Acts or Actions of State Authorities or any other circumstances beyond the parties control that have arisen after the conclusion of the present contract.
 - (b) In such circumstances the time stipulated for the performance of an obligation under the present contract is extended correspondingly for the period of time of action of these circumstance and their consequences but in a same month.
 - (c) The party for which it becomes impossible to meet obligations under this contract due to Force Majeure conditions, is to notify in written form to the other party of the beginning and cessation of the above circumstances immediately, but in any case not later than one working day from the moment of their beginning.
 - (d) Certificate from District Magistrate, Bangalore or other competent authority or organisation of the respective country shall be a sufficient proof of commencement and cessation of the above circumstances.
 - (e) If the impossibility of complete or partial performance of an obligation lasts for more than 30 working days (except for those mentioned in Para (a) above, Air Force School ASTE, Bengaluru reserves the right to terminate the contract totally

or partially upon giving prior written notice of 30 days to the other party of the intention to terminate without any liability.

7. **Quality.** The performance / quality of service should be satisfactory as per standards.
8. **Inspection Authority.** The inspection of the site may be carried out by Executive Director Air Force School ASTE, Bengaluru or any other officer detailed by Commandant. The mode of Inspection will be User Inspection / Joint Inspection.
9. **Buyer Facilitation.** Buyer will provide the site free of any obstruction for installation of **Interactive board and accessories** at Air Force School ASTE (GV and AV Camp), Bengaluru.
10. **Warranty** - Except as otherwise provided in the invitation tender, the Seller hereby declares that the goods, stores articles sold/supplied to the Buyer under this Supply Order shall be of the best quality and workmanship and new in all respects and shall be strictly in accordance with the specification and particulars contained/mentioned in Supply Order. The Seller hereby guarantees that the said goods/ stores/articles would continue to conform to the description and quality aforesaid for a period of **05 years** from the date of delivery of the said goods stores/articles to the Buyer. If during the aforesaid period of 5 years the said goods/stores/articles be discovered not to conform to the description and quality aforesaid not giving satisfactory performance or have deteriorated, and the decision of the Buyer in that behalf shall be final and binding on the Seller and the Buyer shall be Entitled to call upon the Seller to rectify the goods/stores/articles or such portion thereof as is found to be defective by the Buyer within a reasonable period, so such specified period as may be allowed by the Buyer in his discretion in application made thereof by the Seller, and in such an event, the above period shall apply to the goods/stores/articles rectified from the date of rectification mentioned in warranty thereof, otherwise the Seller shall pay to the Buyer such compensation as may arise by reason of the breach of the warranty therein contained.

You will provide **one year free on site comprehensive warranty** for All In One UHD Touch Interactive Display. During warranty, you will repair/replace without any cost any equipment/part/accessory, which becomes defective except items of a consumable nature. During the warranty period all warranty benefits received by you from the OEMs, for any equipment pertaining to third parties will be passed on to the Buyer. The **Buyer** may invoke the bank guarantee in case you fail to ensure rectification of defects within two weeks of the defect being intimated to you. You will ensure 100% uptime for application software 95% systems availability and 99% uptime for the servers provided, during the warranty period.

11. **Conditions during Warranty:** The system should fulfill the following conditions during the warranty:-
 - (a) Any failure in the system or a subsystem thereof should be rectified within a maximum period of **48 hours** of lodging a complaint from sites. You will ensure 95% systems availability.
 - (b) If the system remains down beyond **48 hours** penalty at the rate of Rs.250/- (Rs Two hundred and fifty only) per day per system will be charged or recovered out of the Bank Guarantee held toward warranty. In case of any system/sub system

being down for more than seven working days, user has the option to get it repaired from any suitable agency at your risk and cost which will be deducted from the Bank Guarantee/AMC due to you.

(c) Any system failing at subsystem level three times within a period of three months or displaying chronic faulty behavior or manufacturing defects or quality control problems will be totally replaced by you at your risk and cost within 30 days of being intimated.

(d) The warranty shall include both preventive and corrective maintenance to be carried out by you.

(e) Required preventive maintenance of the equipment shall be provided by you quarterly during the CUSTOMER's normal working hours and normal working days. The maintenance service will be normally offered between 9 AM to 5.30 PM on week days, including Saturdays, but excluding Sundays and gazette holidays.

(f) In case of breakdown of any equipment/ancillaries, the downtime will commence after four working hours after informing you 'Customer Support Department'. If you fails to rectify the defect even after expiry of 7 days from the date, the defect was first reported, the CUSTOMER shall have the right to get the defect rectified by a third party without affecting your obligation for maintenance of the systems under this contract. Payment thus made to the third party will be deducted from the amount due to you under this contract.

(g) Maintenance of software shall cover restoration, debugging and updating including technical documentation free of cost, if received free of cost by You.

(h) Your obligations of maintenance for any repair service are limited only to the equipment and software listed in Annexure 'I' to Appendix 'A'.

(j) A set of spares may be kept at location indicated to reduce the system downtime to minimum. However, this shall be at your discretion.

(k) All Pamphlets/Handbook/Drivers as provided by the O.E.M will be provided for the hardware being procured from you.

12. **Performance Guarantee/Security Deposit:** Tenderer whose tender is accepted has to furnish the Performance Bank Guarantee (PBG) by way of Bank Guarantee through a Public Sector Bank or Private Sector Bank authorised to conduct Government Business (ICICI Bank Ltd, Axis Bank Ltd., or HDFC Bank Ltd.) for a sum equal to 10% of the contract value within 30 days of receipt of the confirmed order. Performance Bank Guarantee (PBG) should be valid up to 60 days beyond the date of completion of contractual obligations. The PBG is returned to the supplier on successful completion of all his obligations under the contract. In case the term of the contract is extended at mutual consents, the tenderer must get PBG revalidated, if not already valid.

13. **OEM Certificate.** Vender should be OEM certified. In case the bidder is not the OEM, tender specific authorisation Certifications from the OEM for each item/items quoted in the bid will be produced by the seller. Bidders without the OEM /MAF will be rejected/ disqualified.
14. **Turn Over** – The Annual Turn over of the vendor should be more than 7 crore. Enclose audited accounts statement.
15. **Office.** The bidder should have a registered office in Bengaluru, Karnataka preferably .

Part V – Other Details
PART V – EVALUATION CRITERIA & PRICE BID ISSUES

1. **Evaluation Criteria.** The broad guidelines for evaluation of bids will be as follows:-
 - (a) Only those bids will be evaluated which are found to be fulfilling all the eligibility and qualifying requirements of the RFP.
 - (b) The successful bidder will be decided upon the lowest price quoted by the particular bidder as per the price format given at Para 2 below.
 - (c) If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price will prevail and the total price will be corrected. If there is a discrepancy between words and figures, the amount in words will prevail for calculation of price.
 - (d) The lowest acceptable bid will be considered for grant of Work Order after complete clarification and price negotiations as decided by Competent Authority.
 - (e) Any other criteria as applicable to suit a particular case.
2. **Pre-conditions.** The following pre-conditions prevail in this project:-
 - (a) The Bidder interested in execution of the project is expected to visit the site and undertake site survey before submission of bids.
 - (b) Any clarifications in respect of the work is to be clarified with Air Force School, ASTE, Bengaluru represented by Executive Director.
 - (c) The interested bidder is required to bid for implementation of the complete project.
3. **Price Bid Format.** The price bid format is given at Appendix B and bidders are required to fill this up correctly with full details.

4. **LEGAL ADDRESSES OF BUYER AND SELLER.**

SELLER

BUYER

Air Force School, ASTE
NAL, Wind Tunnel Road
Murugeshpalya, Bengaluru-17
TELE: 080-25272332

TECHNICAL SPECIFICATION FOR SUPPLY OF UHD TOUCH INTERACTIVE DISPLAY AT AIR FORCE SCHOOL, ASTE

<u>Minimum specifications for Supply of All In One 86" & 75" UHD Touch Interactive Display</u>

Sl. No.	Specification	Yes/ No
1	<p>Supply of All In one 86" 4K Ultra HD Touch Interactive Display with below minimum specification: Build in Android 11.0 embedded with 4GB RAM, 32GB Memory, 40 point finger touch capable, Anti Glare Tempered glass. In-built PC with: Core I5 8th Generation, 8GB RAM, 128GB SSD, Windows 11th Generation, Connectivity : HDMI x 3 input, HDMI Out x 1, USB C x 1, USB 3.0 x 4 no, USB 2.0 x 1no, RS232 x 1 & LAN x 1 no. Brightness -350 cd/ m2. Build In wireless content share application support all Windows ,Mac,Ipad & Android devices Build In document sharing application with the use of any mobile cam to share static content share over wirelessly. This display panel should have below additional features :</p>	
1.1	<p>1.PIP –Picture in Picture : a. IFPD allows the user to use both windows and Android OS Simultaneously, b. This feature also allows users to mirror their Laptops/Desktops on the screen via HDMI, VGA or Type C and use both the Android OS and the HDMI, VGA or Type C images simultaneously.</p>	
1.2	<p>2.Air class : (a) Digital QnA with students (b) Instant Messaging in class between student & teacher. (c) Voting options</p>	
1.3	<p>3. Native Quad view : You can view 4 local files simultaneously 4. Mirrored Quad View : (a) Windows, ios, android and MAC devices can be mirrored simultaneously. (b) upto 9 devices can be mirrored simultaneously,</p>	
1.4	<p>5. Lecture Capturing Software (a) Capture is a lecture capturing software (b) Allows teachers to record their sessions and convert it into a MP4 file. (c) Teacher can record, edit , add watermarking, subtext etc</p>	
1.5	<p>6. Cloud based class preparation tool from same OEM of IFP (a) Cloud based Class preparation tool (b) 5 GB Cloud storage (c) Activities like true/ falls, competition, fill in the blanks etc can be created on the teacher's desktop/ Laptop and the same can be downloaded on the panel. (d) ISO 27000:1 Certification (e) Interactive software solution should have interactive tools for subject like mathematics, geometry, music, geography etc. (f) Interaction feature by which student share their notes to the teacher in live class.</p>	

1.6	7. Document camera software (a) Connect is a software which enables the teachers to convert their mobile phones into document camera. (b) Users can share pictures from their gallery, control the panel and much more.	
1.7	8. Connectivity:- (a) It creates their inbuilt hotspot, so without internet connection, teachers can share their Laptop and mobile on interactive panel. (b) Bluetooth Connectivity. (c) Can control interactive flat panel from Android Phone or Apple I-Pad. (d) It has multiple ports connectivity like HDMI, VGA, USB Type-C, LAN, RS-232, Audio Out etc.	
2	Supply of 4K Video Conference Camera with following Minimum Specification: 4K Ultra Wide-angle Web Cam, 4K@ 25fps 120° DFoV ½.8” SONY sensor HDR, 2-element Mic Array Noise reduction algorithm, Audio Pick up upto 4 Meters, Auto Focus capability, White Balance, Exposure Auto, I/O Port- USB Type- C (Device) x 1	
3	Supply of Wireless Lapel Mic set with following Minimum Specifications: Wireless Lapel Mic with Body pack Transmitter & UHF True Diversity Receiver set	
4	Supply of 1KVA UPS with following Minimum Specifications: Online UPS with 1KVA Rating, build in battery for Min 15 mins back up	
5	Installation, testing, commissioning & programming	
6	Preferred product Max hub/ LG/ BenQ	
7	Sliding shutter mechanism for above interactive boards – 2 fixed + 2 sliding white boards. 12’ width, 4’ height, 1’ depth	
8	All points of Part II Para 5 (Eligibility criteria) of RFP	

Sl. No.	Specification	Yes/ No
1	Supply of All In one 75" 4K Ultra HD Touch Interactive Display with below minimum specification: Build in Android 11.0 embedded with 4GB RAM, 32GB Memory, 40 point finger touch capable, Anti Glare Tempered glass. In-build PC with: Core I5 8th Generation, 8GB RAM, 128GB SSD, Windows 11th Generation, Connectivity : HDMI x 3 input, HDMI Out x 1, USB C x 1, USB 3.0 x 4 no, USB 2.0 x 1no, RS232 x 1 & LAN x 1 no. Brightness -350 cd/ m2. Build In wireless content share application support all Windows ,Mac,Ipad & Android devices Build In document sharing application with the use of any mobile cam to share static content share over wirelessly. This display panel should have below additional features :	
1.1	1.P P –Picture in Picture : a. IFPD allows the user to use both windows and Android OS Simultaneously, b. This feature also allows users to mirror their Laptops/Desktops on the screen via HDMI,,VGA or Type C and use both the Android OS and the HDMI, VGA or Type C images simultaneously.	

1.2	<p>2. Air class :</p> <p>(a) Digital QnA with students</p> <p>(b) Instant Messaging in class between student & teacher.</p> <p>(c) Voting options</p>	
1.3	<p>3. Native Quad view : You can view 4 local files simultaneously</p> <p>4. Mirrored Quad View :</p> <p>(a) Windows, ios, android and MAC devices can be mirrored simultaneously.</p> <p>(b) upto 9 devices can be mirrored simultaneously,</p>	
1.4	<p>5. Lecture Capturing Software</p> <p>(a) Capture is a lecture capturing software</p> <p>(b) Allows teachers to record their sessions and convert it into a MP4 file.</p> <p>(c) Teacher can record, edit , add watermarking, subtext etc</p>	
1.5	<p>6. Cloud based class preparation tool from same OEM of IFP</p> <p>(a) Cloud based Class preparation tool</p> <p>(b) 5 GB Cloud storage</p> <p>(c) Activities like true/ falls, competition, fill in the blanks etc can be created on the teacher's desktop/ Laptop and the same can be downloaded on the panel.</p> <p>(d) ISO 27000:1 Certification</p> <p>(e) Interactive software solution should have interactive tools for subject like mathematics, geometry, music, geography etc.</p> <p>(f) Interaction feature by which student share their notes to the teacher in live class.</p>	
1.6	<p>7. Document camera software</p> <p>(a) Connect is a software which enables the teachers to convert their mobile phones into document camera.</p> <p>(b) Users can share pictures from their gallery, control the panel and much more.</p>	
1.7	<p>8. Connectivity:-</p> <p>(a) It creates their inbuilt hotspot, so without internet connection, teachers can share their Laptop and mobile on interactive panel.</p> <p>(b) Bluetooth Connectivity.</p> <p>(c) Can control interactive flat panel from Android Phone or Apple I-Pad.</p> <p>(d) It has multiple ports connectivity like HDMI, VGA, USB Type-C, LAN, RS-232, Audio Out etc.</p>	
2	<p>Supply of 4K Video Conference Camera with following Minimum Specification:</p> <p>4K Ultra Wide-angle Web Cam, 4K@ 25fps 120° DFoV ½.8" SONY sensor HDR, 2-element Mic Array Noise reduction algorithm, Audio Pick up upto 4 Meters, Auto Focus capability, White Balance, Exposure Auto, I/O Port- USB Type- C (Device) x 1</p>	
3	<p>Supply of Wireless Lapel Mic set with following Minimum Specifications:</p> <p>Wireless Lapel Mic with Body pack Transmitter & UHF True Diversity Receiver set</p>	
4	<p>Supply of 1KVA UPS with following Minimum Specifications:</p> <p>Online UPS with 1KVA Rating, build in battery for Min 15 mins back up</p>	
5	Installation, testing, commissioning & programming	
6	Preferred product Max hub/ LG/ BenQ	
7	Sliding shutter mechanism for above interactive boards – 2 fixed + 2 sliding white boards. 12' width, 4' height, 1' depth	
8	All points of Part II Para 5 (Eligibility criteria) of RFP	

Appendix 'B'
(Ref to Para 5 (e)
of Part – II of RFP

**COMMERCIAL BID FOR SUPPLY OF UHD TOUCH INTERACTIVE DISPLAY
AT AIR FORCE SCHOOL, ASTE**

SI No	Description with feature & Specifications	Qty Required	Unit Rate	Rate inclusive of GST	Amount
1	Supply of All In one 86" UHD Touch Interactive Display	4			
2	Supply of All In one 75" UHD Touch Interactive Display	20			
3	Supply of 4K Video Conference Camera with following Minimum Specification: 4K Ultra Wide-angle Web Cam, 4K@ 25fps 120° DFoV ½.8" SONY sensor HDR, 2-element Mic Array Noise reduction algorithm, Audio Pick up upto 4 Meters, Auto Focus capability, White Balance, Exposure Auto, I/O Port- USB Type- C (Device) x 1	24			
4	Supply of Wireless Lapel Mic set with following Minimum Specifications: Wireless Lapel Mic with Body pack Transmitter & UHF True Diversity Receiver set	24			
5	Supply of 1KVA UPS with following Minimum Specifications: Online UPS with 1KVA Rating, build in battery for Min 15 mins back up	24			
6	Preferred product- Max hub/ LG/ BenQ				
7	Sliding shutter mechanism for above interactive boards – 2 fixed + 2 sliding white boards. 12' width, 4' height, 1' depth	24			

**DETAILS OF BIDDER FIRM BIDDING FOR SUPPLY OF
INTERACTIVE FLAT PANEL AT AIR FORCE SCHOOL ASTE**

1	Nature of Service Provider	
2	Year of Establishment	
3	Registered Postal Address with Telephone No	
4	Name and mobile No of Contact person	
5	Address of Branch (Local or in State)	
6	Name and address of Directors, in case of Company	
7	Name and Address of sole Proprietor	
8	Name and address of partners in case of a partnership firm	
9	Name of Bankers and Branch with full address	
10	Type of Account & Number	

Signature of Authorised person with date

**DETAILS OF BIDDER FIRM BIDDING FOR SUPPLY OF
INTERACTIVE FLAT PANEL AT AIR FORCE SCHOOL ASTE**

1. The following documents are to be submitted by the bidders for above mentioned work along with Technical/ Financial bids:-
 - (a) A copy of Registration of firm.
 - (b) Earnest Money Deposit (EMD) of **Rs.2,50,000/-** of the amount in the form of Demand Draft only.
 - (c) Copy of valid PAN card in the name of the firm or in the name of Proprietor of the firm and Income Tax return of the firm or Proprietor for the last three years.
 - (d) Copy of complete RFP with ink signature of authorised person of the bidder firm on each page of RFP.
 - (e) Attested copies of Service Tax Registration Certificate along with latest receipt of premium paid should be attached failing which the certificate/ receipt will be considered invalid.

