

APPENDIX 'E'

Telephone: 0288-2569500 Extn. 7238

33 Wing, AF
Air Force Station,
Jamnagar - 361003

33WG/2738/14/EDN BM-II dt 05 Aug 26

M/s.

REQUEST FOR PROPOSAL: ESTABLISHMENT AND FULL SET UP OF ATAL TINKERING LAB FOR AIR FORCE SCHOOL JAMNAGAR.

Dear Sir/Madam,

1. Bids in sealed cover are invited from authorized vendors for supply and installation of items 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. This RFP is being issued with no financial commitment and the Buyer reserves the right to change or vary any part thereof at any stage. Buyer also reserves the right to withdraw the RFP, if it become necessary at any stage.
3. Complete RFP details may be downloaded from Air Force School Jamnagar official website (www.airforceschooljamnagar.in) and is required to be attached with the bid duly signed, accepted and sealed by authorised person/ proprietor.

Yours sincerely,


(Sanghamitra)
Squadron Leader
Executive Director
Air Force School
Jamnagar

**REQUEST FOR PROPOSAL
PARTICULAR OF THE BUYER ISSUING THE RFP**

**REQUEST FOR PROPOSAL:
ESTABLISHMENT AND FULL SET UP OF ATAL TINKERING LAB FOR AIR FORCE SCHOOL
JAMNAGAR.**

1. Bids in sealed cover are invited from authorized vendors for supply and installation of items 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. Vendors are to carry out the site survey before Pre-bid meeting, if applicable.

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

2.1 Bids/ queries to be addressed to : AOC, 33 Wing, Air Force Jamnagar
Kind Attn: Executive Director
Air Force School Jamnagar - 361003

2.2 Postal address to sending the Bids : AOC, 33Wing, Air Force, Jamnagar
Kind Attn: Executive Director
Air Force School Jamnagar - 361003

2.3 Name / designation/ Contact number of the contact personnel:
Squadron Leader Sanghmitra
Executive Director
Air Force School Jamnagar - 361003

2.4 Telephone number of the contact personnel : 1932 / 3712 7238, M.98252 30153

2.5 E-mail ids of contact personnel : afsschooljam@gmail.com

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

3.1 **Part I** – Contains General Information and Instructions for the Bidders about the RFP such as the time, place of submission and opening of tenders, validity period of tenders, etc.

3.2 **Part II** – Contains essential of the items/services required, such as the Schedule of Requirements (SOR), Technical Specifications, Delivery Period, Mode of Delivery and Consignee details.

3.3 **Part III** – Contains Standard Conditions of RFP, which will form part of the Contract with the successful Bidder.

3.4 **Part IV** – Contains Special Conditions applicable to this RFP and which will also form part of the contract with the successful Bidder.

3.5 **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 any 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:** The sealed Bids (both ~~technical and~~ commercial, in case two bids are called for) should be deposited or should reach at the specified place/ Tender Box by the due date and time i.e on **2359 hrs on 25 Aug 26**. 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 **"INVITATION OF BIDS FOR ESTABLISHMENT AND FULL SET UP OF ATAL TINKERING LAB FOR AIR FORCE SCHOOL JAMNAGAR."** located at **"Main Gate, Air Force Station-I, Digjam Mill Road, Jamnagar - 361003 (Gujarat)"** or sent by registered post at the address given above (with annotation of Title, RFP number and Date of Opening of Bids on the sealed cover) so as to reach at the designated place/ Tender box by the due date and time. Late tenders or bids dropped in the wrong Tender Box will be rendered invalid. No responsibility will be taken for delayed submission/ receipt of bid documents due to postal delay or any other reasons. Also, Bids sent by FAX or e-mail will not be considered in any case.
3. **Time and date for opening of Technical Bids:** **At 1100 hrs on 26 Aug 26.** (if due to any exigency, the due date for opening of 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:** **Guard Room Main Gate, Air Force Station-I, Near Digjam Mill, Jamnagar – 361003 GUJARAT** (Guard Room at Air Force Station Jamnagar) Only those Bids that are found in the appropriate tender box, by the due date and time, will be opened. Bids dropped in the wrong Tender Box or received after due date and time will be rendered invalid and will be rejected.
5. **Place of opening of the Bids:** **Station Education Section, Air Force Station-I, Jamnagar – 361003 GUJARAT.** The Bidders may depute their representatives, duly authorized in writing, to attend the opening of Bids on the due date and time. This event will not be postponed due to non-presence of your representative.
6. ~~**Manner of submission of bids in Two Bid system:** The technical bid and the financial bid should be sealed by the bidder in separate covers duly superscribed and both these sealed covers are to be put in a bigger cover which should also be sealed and duly superscribed. The technical bids will be opened and evaluated in the first instance. At the second stage, financial bids of only the technically acceptable offers would be opened for further evaluation and ranking before awarding the contract.~~
7. **Forwarding of Bids:** Bids should be forwarded by Bidders under their original memo / letter pad inter alia furnishing details like GSTIN number, Bank address with EFT Account if applicable, etc and complete postal & e-mail address of their office. All copies of RFP downloaded to be signed by vendor on each page and to be forwarded along with the Bid.
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 07 (seven) days prior to the date of opening the Bids. Copies of the query and clarification by the purchaser will be sent to all prospective bidders who have received the bidding documents.

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 the email followed by a signed confirmation copy in this regard to be sent by Post 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 specified. Withdrawal of the bid during this period will result in Bidder's forfeiture of bid security.

~~10. **Pre Bid Conference:** The Pre bid Conference will be held at _____ hrs on _____ 2025 at the Air Force School, 33 Wing, Air Force Station - I, Digjam Mill Road, Jamnagar-361003 (Gujarat). All prospective bidders to attend the Pre Bid Conference. Photos or browser/drawing of the specified items mentioned in RFP is to be produced at time of Pre Bid Conference.~~

11. **Clarification regarding contents of the Bids:** 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.

12. **Rejection of Bids:** Late Bids, Quotations received with rates quoted for items other than mentioned in RFP, Receipt of conditional quotations, quotations submitted by blacklisted firms, Canvassing by the Bidder in any form, Non receipt of GSTIN Certificate, Non receipt of Acceptance Copy of RFP with bid, unsolicited letter and post-tender correction may invoke summary rejection with forfeiture of EMD as applicable. Further, bids submitted by blood relatives (Son/daughter, Spouse, Brother, Sister etc.) of employees/ employees of AF School Jamnagar will be rejected to prevent conflict of interest and direct/indirect influence of employees in tender process.

13. **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 de-listed for the given range of items as mentioned in this RFP.

14. **Validity of Bids:** The Bids should remain valid till **120 days (one hundred twenty days)** in case of single bid RFP from the last date of submission of the bids.

15. **Earnest Money Deposit:** - Bidders are required to submit Earnest Money Deposit (EMD) of **03% of bid value along with their bids**. The EMD may be submitted in the form of an Account Payee Demand Draft, Fixed Deposit Receipt (in favour of **OIC AIR FORCE SCHOOL JAMNAGAR**) authorized to conduct government business as per Form DPM-16. 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 bidder would be returned, without any interest whatsoever, after the receipt of Performance Security from them as called for in the contract. EMD is not required to be submitted by those Bidders who are registered with the Central Purchase Organization (e.g. DGS&D), National Small Industries Corporation (NSIC) or any Department of MoD or MoD itself. The EMD will be forfeited if the bidder withdraws or amends impairs or derogates from the tender in any respect within the validity period of their tender. Bidders to sign a Bid securing declaration accepting that if they withdraw or modify their bids during the period of validity, or if they are awarded the contract and they fail to sign the contract, or to submit a performance security before the deadline defined in the request

for bids document, they will be suspended for the period of 02 (two) years in the request for bids documents from being eligible to submit Bids for contract with the entity that invited the Bids.

PART II – ESSENTIAL DETAILS OF ITEMS / SERVICES REQUIRED

1. **Schedule of Requirements:** As per Annexure "A" of this RFP.

~~2. **Two-Bid System:** In respect of two-bid system, Bidders are required to furnish clause by clause compliance of specifications bringing out clearly the deviations from specification, if any. The Bidders are advised to submit the compliance statement in the following format along with Technical Bid:~~

~~As attached as technical specification (Annexure "B").~~

Note:

2.2.1 The rates for above mentioned requirements should be inclusive of cost of complete transportation and installation (with full functioning) including all civil works and labour charges borne by the vendor.

2.2.2 Determination of L1, among the valid & eligible tenders, will be done on the basis of consolidated basic price for said items.

2. **Delivery Period and Place:** Delivery period for supply and installation with full fitting of said items would be delivered in **30 days** from the effective date of contract at the buyers' place Air Force School, Air Force Station - I, Jamnagar – 361003 (Gujarat). Please note that Contract can be cancelled unilaterally by the Buyer in case items are not received within the contracted delivery period. Extension of contracted delivery period will be at the sole discretion of the Buyer, with applicability of LD clause.

3. **Terms of delivery:** The items as standard shall be dispatched to the consignee by the supplier / contractor on his own arrangements in an appropriate transport to maintain items undamaged and fit for utilization.

4. **Consignee Details:**

Executive Director
Air Force School
Air Force Station – I
Jamnagar – 361003

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 (i.e. Seller in the Contract) as selected by the Buyer. 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 the Republic of India.

2. **Effective Date of the Contract:** The contract shall come into effect on the date of signatures of both the parties on the contract (Effective Date) and shall remain valid until the completion of the obligations of the parties under the contract. The deliveries and supplies and performance of the services shall commence from the effective date of the contract.

3. **Arbitration:** All disputes or differences arising out of or in connection with the Contract shall be settled by bilateral discussions. Any dispute, disagreement or question arising out of or relating to the Contract or relating to construction or performance, which cannot be settled amicably, may be resolved through arbitration. The standard clause of arbitration is as per Appendix H of DPM VOL-II 2025. (Available on MoD website and can be provided on request).

4. **Penalty for use of Undue Influence.** The Seller undertakes that he has not given, offered or promised to give, directly or indirectly, any gift, consideration, reward, commission, fees, brokerage or inducement to any person in service of the buyer 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 Seller) or the commission of any offers by the Seller 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 Seller and recover from the Seller the amount of any loss arising from such cancellation. A decision of the Buyer or his nominee to the effect that a breach of the undertaking had been committed shall be final and binding on the Seller. Giving or offering of any gift, bribe or inducement or any attempt at any such act on behalf of the Seller towards any officer/employee of the Buyer or to any other person in a position to influence any officer/employee of the Buyer for showing any favor in relation to this or any other contract, shall render the Seller to such liability/ penalty as the Buyer 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 Buyer.

5. **Access to Books of Accounts:** In case it is found to the satisfaction of the Buyer that the Seller 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 the Buyer, shall provide necessary information/ inspection of the relevant financial documents/ information.

6. **Agents/ Agency Commission:** The Seller confirms and declares to the Buyer that the Seller is the original manufacturer of the stores/provider of the services 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 the Seller; 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 Seller 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, the Seller will be liable to refund that amount to the Buyer. The Seller will also be debarred from entering into any supply Contract with the Government of India for a minimum period of five years. The Buyer will also have a right to consider cancellation of the Contract either wholly or in part, without any entitlement or compensation to the Seller who shall in such an event be liable to refund all payments made by the Buyer in terms of the Contract along with interest at the rate of 2% per

annum above LABOR rate. The Buyer will also have the right to recover any such amount from any contracts concluded earlier with the Government of India.

7. Risk & Expense clause:

7.1 Should the stores or any instalment thereof not be delivered within the time or times specified in the contract documents, or if defective is made in respect of the stores or any instalments thereof, the Buyer shall after granting the seller 45 days to cure the breach. Be at liberty, without prejudice to the right to recover liquidated damages as a remedy for breach of contract, to declare the contract as cancelled either wholly or to the extent of such default.

7.2 Should the stores or any instalment thereof not perform in accordance with the specifications/parameters provided by the SELLER during the check proof tests to be done in the BUYER's country, the BUYER shall be at liberty, without prejudice to any other remedies for breach of contract, to cancel the contract wholly or to the extent of such default.

7.3 In case of a material breach that was not remedied within 45 days. The BUYER shall having given the right of first refusal to the SELLER be at liberty to purchase. Manufacture, or procure from any other source as he thinks fit, other stores of the same or similar description to make good:-

7.3.1 Such default

7.3.2 In the event of the contract being wholly determined the balance of the stores remaining to be delivered there under.

7.4 Any excess of the purchase price, cost of manufacturer, or value of any stores procured from any other supplier as the case may be, over the contract price appropriate to such default or balance shall be recoverable from the SELLER. Such recoveries shall not exceed the value of the contract."

8. Force Majeure clause.

8.1 Neither party shall bear responsibility for the complete or partial non-performance of any of its obligations (except for failure to pay any sum which has become due on account of receipt of goods 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, blockage, acts or actions of state authorities or any other circumstances beyond the parties control that have arisen after the conclusion of the present contract.

8.2 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 circumstances and their consequences.

8.3 The party for which it becomes impossible to meet obligations under this contract due to Force Majeure conditions, is to notify in written from the other party of the beginning and cessation of the above circumstances immediately, but in any case, not later than 10(ten) days from the moment of their beginning.

9. Quality Assurance. The item should be the latest manufacture, conforming to the current production standard and having 100% defined life at the time of delivery.

10. **Inspection Authority:** The inspection will be carried out by OIC Air Force School/rep as decided by the buyer. The mode of Inspection will be Departmental Inspection/User Inspection/Joint Inspection / Self-certification. The items not found as per supply order will be rejected.

11. **Non-disclosure of Contract document:** Except with the written consent of the Buyer/ Seller, other party shall not disclose the contract or any provision, specification, plan, design, pattern, sample or information thereof to any third party.

12. **Liquidated Damages:** In the event of the Supplier's failure to submit the Bonds, Guarantees and Documents, supply the stores/ goods and conduct trials, installation of equipment, training, etc as specified in this contract, the buyer may, at his discretion, withhold any payment until the completion of the contract. The buyer may also deduct from the seller as agreed, liquidated damages to the sum of 0.5% of the contract 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.

13. **Termination of Contract:** The Buyer shall have the right to terminate this Contract in part or in full in any of the following cases:-

13.1 The delivery of the materials is causes not attributable to Force Majeure for more than 15 days after the scheduled date of delivery.

13.2 The Seller is declared bankrupt or becomes insolvent.

13.3 The delivery of material is delayed due to causes of Force Majeure by more than 01 months provided Force Majeure clause is included in contract.

13.4 The Buyer has noticed that the Seller has utilised the services of any Indian/Foreign agent in getting this contract and paid any commission to such individual/company etc.

13.5 As per decision of the Arbitration Tribunal.

14. **Notices:** Any notice required or permitted by the contract shall be written in the English language and may be delivered personally or may be sent by email or registered pre-paid mail/ airmail, addressed to the last known address of the party.

15 **Transfer and Sub-letting:** The Seller has no right to give, bargain, sell, assign or sublet or otherwise dispose of the Contract or any part thereof, as well as to give or to let a third party take benefit or advantage of the present contract or any part thereof.

16 **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, trademark and payments for any other industrial property rights. The Seller shall indemnify the Buyer 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. The Seller shall be responsible for the completion of the supplies including spares, tools, technical literature and training aggregates irrespective of the fact of infringement of the supplies, irrespective of the fact or infringement of any or all the rights mentioned above.

17 **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.

18 **Taxes and Duties:** The bidders are to quote basic price inclusive of all duties/ taxes. He should clearly indicate the rate of such duty/ tax and quantum of such duty/ tax included in the price. Failure to do so may result in ignoring such offers summarily.

19. **Goods and Services Tax:**

19.1 **General**

19.1.1 Bidder must indicate separately the relevant GST likely to be paid in connection with delivery of completed goods specified in RFP. In absence of this, the total cost quoted by them in their bids will be taken into account in the ranking of bids.

19.1.2 If a Bidder is exempted from payment of GST up to any value of supplies from them, he should clearly state that no such GST will be charged by them up to the limit of exemption which they may have. If any concession is available in regard to rate/quantum of GST, it should be brought out clearly. In such cases, relevant certificate will be issued by the Buyer later to enable the seller to obtain exemptions from taxation authorities.

19.1.3 Any changes in Goods and Services Tax levied by central/ state/ local governments such as CGST & SGST on the final product upward as a result of any statutory variation taking place within the contract period shall be allowed reimbursement by the buyer, to the extent of actual quantum of such duty/tax paid by the seller. Similarly, in case of downward revision in GST, the actual quantum of reduction of GST shall be reimbursed to the buyer by the seller. All such adjustments shall include all reliefs, exemptions, rebates, concession etc, if any, obtained by the seller. Section 64A of sales of goods act will be relevant in this situation.

19.1.4 Goods and Services Tax levied by central/ state/ local governments such as CGST & SGST on final product will be paid by the buyer on actual, based on relevant documentary evidence. Taxes and duties on input items will not be paid by buyer and they may not be indicated separately in the bids. Bidders are required to include the same in the pricing of their product.

19.1.5 Any change in any duty/ tax upward/ downward as a result of any statutory variation in excise taking place within contract terms shall be allowed to the extent of actual quantum of such duty/ tax paid by the supplier. Similarly, in case of downward revision in any duty/ tax, the actual quantum of reduction of such duty/ tax shall be reimbursed to the Buyer by the Seller. All such adjustments shall include all reliefs, exemptions, rebates, concession etc. if any obtained by the Seller.

19.2 2% TAX (TDS) will be levied under GST for procurement of Goods and Services worth over Rs.2.5/- lakhs only. Further, Income Tax TDS will be deducted as per the provisions of Income Tax Act, 1961.

20. **Identification and packing Instruction:** The store shall be securely packed as per relevant clauses of the specification without any additional cost to avoid the loss/ damage during transit so as to reach the unit in perfect serviceable condition and fit for use.

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 (i.e. Seller in the Contract) as selected by the Buyer. Failure to do so may result in rejection of Bid submitted by the Bidder.

1. **Performance Guarantee:** Performance security deposit payable to the Purchaser is furnished by the Supplier in the form of a Performance Bank Guarantee (PBG) **(in favour of OIC AIR FORCE SCHOOL JAMNAGAR)** issued by a public sector bank or a private sector bank authorized to conduct government business, in the prescribed format within **30 (thirty) days** from the date of contract. At present, ICICI Bank Ltd., Axis Bank Ltd. and HDFC Bank Ltd. are the three private sector banks authorized to carry out government transactions. Performance Security may be furnished in the form of an Account Payee Demand Draft, Fixed Deposit Receipt from a Commercial bank, Bank Guarantee from a Commercial bank or online payment in an acceptable form safeguarding the Buyer's interest in all respects. The performance security deposit is meant to compensate the Purchaser for any loss suffered due to failure of the supplier to complete his obligations as per the contract. Preferably, performance security is payable by the supplier at the **rate of 5% (five percent) of the contract value**. PBG should remain valid should be for a period of **60 (sixty) days beyond** the date of completion of contractual obligations, including warranty. The BG is returned to the supplier on successful completion of all his obligations under the contract. In case the execution of the contract is delayed beyond the contracted period and the purchaser grants extension of delivery period, with or without LD, the supplier must get the BG revalidated, if not already valid. The format of the PBG is given in Form DPMF-15.
2. **Option Clause:** The contract will have an Option Clause, wherein the Buyer can exercise an option to procure an additional 50% of the original contracted quantity in accordance with the same terms & conditions of the present contract. This will be applicable within the currency of contract. The Bidder is to confirm the acceptance of the same for inclusion in the contract. It will be entirely the discretion of the Buyer to exercise this option or not.
3. **Repeat Order Clause:** This contract will have a Repeat Order Clause, wherein the Buyer can order up to 50% quantity of the items under the present contract within six months from the date of supply/successful completion of this contract, the cost, terms & conditions remaining the same. The Bidder is to confirm acceptance of this clause. It will be entirely the discretion of the Buyer to place the Repeat order or not.
4. **Tolerance Clause:** To take care of any change in the requirement during the period starting from issue of RFP till placement of the contract, Buyer reserves the right to 10% plus/minus increase or decrease the quantity of the required goods up to that limit without any change in the terms & conditions and prices quoted by the Seller. While awarding the contract, the quantity ordered can be increased or decreased by the Buyer within this tolerance limit.
5. **Warranty:** Warranty period will be **one years (onsite warranty) or the warranty period offered by the company whichever is higher from the date of purchase**. The contractor/ seller will submit a certificate declaring that the goods, stores, articles sold/ supplied to the purchaser under this contract shall be of the best quality and workmanship and new in all respect and shall be strictly in accordance order and will rectify any defects free of cost at this unit premises during warranty period.
6. **Terms of Payment:** 100% payment for **establishment and full set up of Atal Tinkering lab** through NEFT/ RTGS within 30 days of receipt of full material with installation as per the supply order subject to acceptance of items /work after inspection and remittance of performance guarantee, if applicable.

7. **Paying Authority:** Executive Director, Air Force School Jamnagar, Air Force Station Jamnagar. (Name and address, contact details). The payment of bills will be made on submission of the following documents by the seller to the Paying Authority along with the bill.

- 7.1 Ink signed original Invoice / bill.
- 7.2 Copy of Supply Order
- 7.3 Guarantee / Warranty certificate.
- 7.4 Original Performance Bank Guarantee / Indemnity bond where applicable.\
- 7.5 Details Payment viz Account holder's name, Bank name, Branch name and address, Account type, Account number, IFSC code, MICR code etc

8. **Specification:** The following Specification clause will form part of the contract placed on successful Bidder - The Seller guarantees to meet the specifications as per Part-II of RFP and to incorporate the modifications to the existing design configuration to meet the specific requirement of the Buyer Services as per modifications/requirements recommended after the Maintenance Evaluation Trials. All technical literature and drawings shall be amended as the modifications by the Seller before supply to the Buyer. The Seller, in consultation with the Buyer, may carry out technical up gradation/alterations in the design, drawings and specifications due to change in manufacturing procedures, indigenization or obsolescence. This will, however, not in any way, adversely affect the end specifications of the equipment. Changes in technical details, drawings repair and maintenance techniques along with necessary tools as a result of up gradation/alterations will be provided to the Buyer free of cost within 30 days of affecting such up gradation/alterations.

9. **Earliest Acceptable Year of Manufacture:** Year 2026 or latest Manufacturing.

10. **Quality:** The quality of the stores delivered according to the present Contract shall correspond to the technical conditions and standards valid for the deliveries of the same stores for in Seller's country or specifications enumerated as per RFP and shall also include therein modification to the stores suggested by the Buyer. Such modifications will be mutually agreed to. The Seller confirms that the stores to be supplied under this Contract shall be new i.e. not manufactured before (Year of Contract), and shall incorporate all the latest improvements and modifications thereto and spares of improved and modified equipment are backward integrated and interchangeable with same equipment supplied by the Seller in the past if any. The Seller shall supply an inter changeability certificate along with the changed part numbers wherein it should be mentioned that item would provide as much life as the original item.

11. **Inspection Authority:** The Inspection will be carried out by Executive Director, Air Force School Jamnagar. The mode of Inspection will be User Inspection.

PART V - EVALUATION CRITERIA & PRICE BID ISSUES

1. **Evaluation Criteria** – The broad guidelines for evaluation of Bids will be as follows:

1.1 Only those Bids will be evaluated which are found to be fulfilling all the eligibility and qualifying requirements of the RFP, both technically and commercially.

~~1.2 In respect of Two bid system, the technical bids forwarded by the Bidders will be evaluated by the Buyer with reference to the technical characteristics of the equipment as mentioned in the RFP. The compliance of Technical Bids would be determined on the basis of the parameters specified in the RFP. The Price Bids of only those Bidders will be opened whose Technical Bids would clear the technical evaluation.~~

1.3 The lowest Bid will be decided upon the lowest price quoted by the particular Bidder as per the Price format given at Appendix 'B'. The consideration of taxes and duties in evaluation process will be as follows:

1.3.1 In cases where only Indian Bidders are competing, L1 will be determined based on the total of basic prices (Such as GST, not including levies, taxes and duties levied by Central / State / Local governments, on final product) of all items / requirements as mentioned above.

1.4 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.

2. **Price Bid Format:** Price bid format strictly as per the format given at **Appendix "B"**.


(Sanghmitra)
Squadron leader
Executive Director
Air Force School
Jamnagar

PART – II TECHNICAL SPECIFICATIONS FOR SET UP OF ATAL TINER LAB

PACKAGE - 01

SER NO.	SPECIFICATION		COMPLIANCE TO RFP SPECIFICATION WHETHER YES / NO	IN CASE OF NONCOMPLIANCE, DEVIATION FROM RFP TO BE SPECIFIED IN UNAMBIGUOUS TERMS
2.1	Arduino Uno or equivalent	ATmega328P - 8-bit AVR family microcontroller, equivalent or better. Operating Voltage: 5V Digital I/O Pins: 14 {of which 6 provide PWM output) PWM Digital I/O Pins: 6, Accessories: Case shell enclosure, compatible USB cable {length - 6 inches or more)		
2.2	Arduino Nano or equivalent	ATmega328P - 8-bit AVR family microcontroller, equivalent or better. Operating Voltage: 5V Digital I/O Pins: 14 {of which 6 provide PWM output) Analog Input Pins: 8 Accessories: Compatible USB cable {length 6 inch or more)		
2.3	Arduino Mega or equivalent	ATmega2560P - 8-bit AVR family microcontroller, equivalent or better. Operating Voltage: 5V Digital I/O Pins: 54 (of which 6 provide PWM output) Analog Input Pins: 16 Accessories: Case shell enclosure, Compatible USB cable (length 6 inch or more)		
2.4	Raspberry Pi 3 Model B+	RASPBERRY PI 3 MODEL B+, equivalent or better Accessories - MicroSD card - 32 GB, USB 3.0 cable (1 meter), HDMI to VGA – 1 meter, HDMI to VGA adapter, Case shell enclosure		
2.5	Breadboards & Mini Breadboard	Solderless 400 pin breadboard		
2.6	Breadboards & Mini	Solderless 800 pin breadboard		

	Breadboard			
2.7	Breadboards & Mini Breadboard	Self-Adhesive Proto Shield		
2.8	General Purpose solderable Board	FR2 A Grade Material (140 x90 mm)		
2.9	General Purpose solderable Board	FR2 A Grade Material (80 x 55 mm)		
2.10	Berg Strips	Female Berg Strip, 2.54mm pitch, 40 pin single row, breakable pin		
2.11	Berg Strips	Male Berg Strip, 2.54mm pitch, 40 pin single row, breakable pin		
2.12	16x2 LCD display	Dot matrix LCD display. 16 characters X 2 lines. I2C		
2.13	USB Cables	USB Cable Set (A to B, 12 inch or more)		
2.14	USB Cables	USB Cable Set (Mini, 12 inches or more)		
2.15	Battery	9-12V 2000 to 2500 mAh rechargeable battery with 2 chargers. Equivalent or better		
2.16	Resistor Kit	One kit contains - 30 carbon film resistors of 20 different resistance values each. Assorted, packaged together and labelled. Wattage: 0.125W to 1W Values: 0 Ω , 1.5 Ω , 4.7 Ω , 10 Ω , 47 Ω , 100 Ω , 220 Ω , 330 Ω , 470 Ω , 680 Ω , 1k Ω , 2.2k Ω , 3.3k Ω , 4.7k Ω , 10k Ω , 22k Ω , 47k Ω , 100k Ω , 330k, 1M Ω One kit contains - 20 electrolytic capacitors of 10 different capacitance values each.		
2.17	Capacitor Kit	Assorted kit packaged together and labelled. Values: 10pF, 22pF, 100pF, 1nF, 10nF, 100nF, 1 μ F, 10 μ F, 100 μ F, 1000 μ F		
2.18	Linear Voltage Regulator	7805, 7812, 7809		
2.19	Water Pump module	DC12V 3W Submersible Water Pump		

2.20	Piezoelectric Plate	Normal Copper based 4 cm Diameter approx.		
2.21	8*8 LED Matrix Module	Max7219 Dot LED Matrix Module. MCU Control LED Display Module		
2.22	Bluetooth module	HC 05 Bluetooth module Voltage Rating: 5 V		
2.23	7 Segment Led Display	LED 4-Digit Display Module, Voltage Rating: 2.4V to 5.5V 4-Pin interface: Vcc, Gnd, Data, Clock		
2.24	GSM	Sim900 GPRS Transfer Board Micro Sim GSM Core TTL Port Module for Arduino		
2.25	GPS	GY-NE06MV2 new GPS module		
2.26	Laser Diode Emitter	650 nm 5mW Mini Laser Dot Diode Module		
2.27	LDR Module	5mm/12mm, Photosensitive LDR Light Sensor Module		
2.28	Keypad	Universal 16 Key Switch Keypad		
2.29	Joystick	2-axis joystick with push button function		
2.30	Active Buzzer	Small 5 volt		
2.31	Active Buzzer	Big 5 volt		
2.32	Motor driver Module	L293D		
2.33	Sound Playback Module	ISD1820 voice recording module or equivalent		
2.34	DC motor	Plastic Gear with 12V, 150RPM, Side Shaft BO (Battery operation) Motor with wheel		
2.35	Node MCU	ESP 8266 - 12C, 1 wire, plug and play		
2.36	WeMo's D1 R2	WeMo's D1 R2 with WIFI ESP 8266, Operating Voltage: 5V		
2.37	Vibrating Motor	Weight: 10 Grams Operating Voltage: 1.5 to 3V		
2.38	Alligator Connectors	Multi-Color Alligator Connectors - 12 inch		
2.39	Battery clips with DC Jack	9-volt battery clips with DC Jack		
2.40	Hook-up Wires	Red & Black set 100 Meters each		
2.41	Jumper Cable	Male-Male		
2.42	Jumper Cable	Male-Female		

2.43	Jumper Cable	Female-Female		
2.44	LEDs Regular 5mm 3–5volt Range	RGB LEDs		
2.45	LEDs Regular 5mm 3–5volt Range	LEDs (Red)		
2.46	LEDs Regular 5mm 3–5volt Range	LEDs (Green)		
2.47	LEDs Regular 5mm 3–5volt Range	LEDs (Blue)		
2.48	LEDs Regular 5mm 3–5volt Range	LEDs (Yellow)		
2.49	LEDs Regular 5mm 3–5volt Range	LEDs (White)		
2.50	LM 555 Timer IC	Timer IC- LM 555, Voltage range - 4.5V to 16V		
2.51	Atmega16u2	8-bit microcontroller Individual IC (DIP). Voltage range: 2.7V to 5.5V Operational Range: -40°C to +80°C		
2.52	Diodes and Transistors Kit	One Kit Contains - 25 Assorted Basic Diodes of 4 different types each. Types: NPN Transistor - 2N3904, BC547 PNP Transistor - 2N3906, BC557. Silicon Diode - 1N4148 Power Diode - 1N4004/4001. Wattage: 1W, Current rating: 1A Assorted kit packaged together and labelled.		
2.53	Button Switch	One Kit Contains - 100 buttons of different types. Set Types: Push, toggle, rotary, selector and slide switch. Assorted kit packaged together and labelled.		
2.54	Capacitive touch Module	MPR 121 with I2C. Voltage Range: 2.5V to 3.6V DC		
2.55	Capacitive Touch Module	Digital Capacitive touch switch module TTP223B Switch, Voltage Range: 2V to 5V DC.		
2.56	IR Sensors	Obstacle avoider Detection, LM393 distance: 2 - 30		

		cm ,Detection angle: 30 - 40°		
2.57	Triple Axis Magnetometer	3-Axis Magneto resistive Sensors, I2C, Digital Interface Integrated 12-bit ADC, Range of -8 to +8 Gauss 160 Hz Maximum O/P rate, Operating range: 20-95 % RH		
2.58	Humidity Sensor	Temperature: 0 - 60 Celsius, Power supply: 1.5V AC (Max sine), Operating frequency: 500Hz - 2kHz		
2.59	MQ Series	MQ - 2 Smoke Detection		
2.60	MQ Series	MQ-3 Alcohol - Ethanol Sensor		
2.61	MQ Series	MQ-4 Methane Natural Gas Sensor		
2.62	MQ Series	MQ-5 Methane Liquified Gas Sensor		
2.63	MQ Series	MQ-6 Liquified Petroleum Gas Sensor		
2.64	MQ Series	MQ-7 High Sensitivity CO Carbon Monoxide Sensor Detector		
2.65	MQ Series	MQ-8 Hydrogen Gas Sensor		
2.66	MQ Series	MQ-135 Air Quality Sensor		
2.67	IR transmitter/ TSOP 1738	Switching rate: 38 kHz, receiver Voltage Rating: 5V, Working Voltage - DC 5V		
2.68	Ultrasonic Sensor	Working current - 15 mA Working Frequency - 40 Hz Module HC-SR-04 Range - 1 cm to 4 m Effectual Angle - <15° Measuring Angle - 30° Resolution - 0.3 cm		
2.69	Triple Axis accelerometer	3-axis sensing, low-profile package 4 mm x 4 mm x 1.45 mm LFCSP Low Power: 350 µA (typical) Single-supply operation: 1.8 V to 3.6 V Temperature stability		
2.70	PIR Motion Detector	High digital pulse when motion detected Low digital pulse when idle/no motion detected Module Sensitivity range (up to 6 m) Power supply: 5V - 12V		
2.71	Pulse Rate	Pulse Rate Sensor Finger		

	Heart Sensor	Based (finger or earlobe) Working voltage 3-5V		
2.72	Relay Module	5V 10A - 2 Channel Relay Module. Compatible with Arduino.		
2.73	Relay Module	5V 10A - 1 Channel Relay Module. Compatible with Arduino.		
2.74	Big Sound microphone module	Large Electret capsule sound module		
2.75	Soil Moisture Sensor	FC-28 with LM293 comparator module, Operating Voltage: 3.3V to 5V.		
2.76	Touch Sensor	Capacitive Touch Sensor Module. TTP22X series. Voltage Range: 2.4V to 5.5V		
2.77	Metal Touch Sensor Module	KY-036 or equivalent meta l touch sensor module		
2.78	Rain Drop Sensor	Rain Sensitive, Rain Drop Detection Sensor Module. Voltage Range: 3.3V to 5.5V Size: 5mm X 40mm or equivalent.		
2.79	Flex Sensor	Flex Sensor, Size - 2.2 Inches		
2.80	Temperature Sensor	LM35 Full range temperature sensor. Voltage Range: 4V to 30V. Error: $\pm 0.5^{\circ}\text{C}$		
2.81	Temperature and humidity sensor	DHT 11, Voltage Range: 3V to 5V		
2.82	Force Pressure Sensor	Force sensitive resistor with a square, 1.75x1.5" sensing area		
2.83	Color Recognition Sensor	TCS3200 Color Recognition Sensor		
2.84	Water Flow Sensor	Arduino Compatible Water flow sensor, 5V DC Input.		
2.85	Sound Sensor Module	Sound Sensor , Microphones module		
2.86	IR Sensors Array	8 IR Sensors Array module for line Following. Operating Voltage: 5V		
2.87	Power Bank	20000 mAh 5-volt Power Bank		
2.88	RFID Reader - Tags	Current :13-26mA / DC 3.3V Idle Current :10-13mA		

		Sleep Current<80uA Tags Peak Current<30mA Operating Frequency: 13.56MHz<30mA Read range between 20 cm to 1m Frequency Range: 433.92/315 MHz		
2.89	RF Modules Tx & Rx	Supply Voltage: 3 - 6 V 315 MHz Output: 4 - 16 Dbm Low power consumption Easy application		
2.90	Stepper motor with Driver board28BYJ- 48	ULN2003 5V Stepper Motor+ ULN2003 Driver Board		
2.91	DC motor	12V DC Gear 150 RPM		
2.92	Servo motors	Position Servo Angle based Metal Gear		
2.93	Servo motors	Small Servo Metal Gear		
2.94	Servo motors	Continuous Metal Gear Servo 360		
2.95	Servo motors	Small Servo Plastic Gear		
2.96	150 RPM BO Motor	150 RPM BO Motor		
2.97	L298P Motor Driver	L298P Motor Driver Shield or relative Driver Shield		
2.98	Servo Motor Tester	CCPM 3 channel Servo Tester		
2.99	Robotics DIY Kit	Robotics DIY kit with programmable intelligent brain/ brick.		
2.100	Mechanical construct ion kit	Mechanical (Modular) Metal/plastic compatible with electronic Construction kit equipment.		
2.101	Drone Kit	Educational drone kit with flight controller, brushless motors, Li-Po battery, remote control, sensors, safety features, and learning materials for STEM training.		
2.102	Aerospace Kit	Educational aerospace kit for learning aerodynamics, propulsion, satellite basics, space science concepts, hands-on experiments, and STEM skill development.		
2.103	Automobile Kit	Hands-on automobile learning kit covering vehicle mechanics, power systems, sensors, safety components, and practical		

		experiments for real-world automotive understanding.		
2.104	Bio-Medical Kit	Biomedical kit including ECG, heart rate sensor, oximeter, EMG cable, temperature sensor, and accessories for practical medical electronics learning.		
2.105	Agri-Tech Kit	Agri-Tech learning kit covering soil testing, irrigation control, crop monitoring sensors, weather analysis, and smart farming experiments for agricultural education.		
2.106	Water/ Sanitation Kit	Water and sanitation kit for learning water quality testing, filtration methods, hygiene practices, waste management, and safe drinking water solutions.		
2.107	Bio Tech Kit	DIY biology kit for kids is an exciting means to use tech to understand their biological selves and make cool projects fusing the two.		
2.108	Other Potential STEM Application Kit	Hands-on automobile learning kit covering vehicle mechanics, power systems, sensors, safety components, and practical experiments for real-world automotive understanding.		

PACKAGE - 02

SER NO.	SPECIFICATION		COMPLIANCE TO RFP SPECIFICATION WHETHER YES / NO	IN CASE OF NONCOMPLIANCE, DEVIATION FROM RFP TO BE SPECIFIED IN UNAMBIGUOUS TERMS
2.109	3D Printer Kit and tools	Printer Type: FDM (Fused Deposition Modelling), Minimum Dimensions: 60mm *160mm *160mm, Build Size or 4 liters Build Volume. Nozzle: 0.3mm to 0.4mm nozzle diameter, slicing software should be free or Open source, LCD Screen UI that display print metrics, Good Heated Print bed. Material Compatibility - PLA, ABS, and derivatives of PLA, Ninjabflex Quality Anti-bacterial/ fungal Cover. Repair Kit - with spare springs, crews, keys, tweezers, etc.		
2.110	UPS	Dedicated UPS/Power Back up with 2-hour battery backup.		
2.111	Filament	Compatible 1000 Grams Filament in 5 different colors		
2.112	Filament Storage Box	Compatible Filament storage box		
2.113	Set of Arts & Crafts	Cardboard		
2.114	Set of Arts & Crafts	Foam core boards		
2.115	Set of Arts & Crafts	20m spool of thick strings of various colour		
2.116	Set of Arts & Crafts	Material Rubber band		
2.117	Set of Arts & Crafts	Popsicle sticks		
2.118	Set of Arts & Crafts	Wood glue - 500 ml		

PACKAGE - 03

SER NO.	SPECIFICATION		COMPLIANCE TO RFP SPECIFICATION ON WHETHER YES / NO	IN CASE OF NONCOMPLIANCE, DEVIATION FROM RFP TO BE SPECIFIED IN UNAMBIGUOUS TERMS
2.119	Hacksaw Frame	Blade Size: 12 inch		
2.120	Hacksaw blades	Compatible with 12 inch frame		
2.121	Mini Hacksaw Frame	Blade Size: 6 inch		
2.122	Mini Hacksaw blades	Fits 6 inch mini frame		
2.123	Pliers: 4.5-inch Size	External Straight Tip		
2.124	Pliers: 4.5-inch Size	Circlip Nose Plier		
2.125	Pliers: 4.5-inch Size	Long Nose Design		
2.126	Pliers: 4.5-inch Size	Compact Combination Pliers		
2.127	Pliers: 4.5-inch Size	Wire Stripping Function		
2.128	Pliers: 4.5-inch Size	Bent Nose Grip		
2.129	Pliers: 4.5-inch Size	Needle Nose Precision		
2.130	Tweezer Set	6 Pc Non-Magnetic Tweezers, 6 inch length		
2.131	Ball Pein Hammer	Head Weight: 0.75 kg		
2.132	Steel Shaft Claw Hammer	Claw Hammer, Steel Handle, 0.75 kg		
2.133	C-Clamp	Heavy Duty 3-inch Metal Clamp		
2.134	Allen Key Set	10 Pc Imperial Ring Hex Key Set		
2.135	Drill Machine Set	500W Drill Machine with Accessories, Forward/Reverse Modes, 1–10mm Chuck		
2.136	Drilling Workstation	Drill Press Stand compatible with portable drill		
2.137	Spanner Set	12 Pc Combination Set, 4–30 mm Range		
2.138	Vice Normal	Heavy Table Top Vice		

2.139	6 Piece Precision Screw Driver Set	PH0, PH1, Flat (1.4mm, 2mm, 2.4mm, 3mm) Set		
2.140	Wrench	Universal Adjustable Wrench		
2.141	Wire Strippers	Wire Cutter cum Stripper with Spring		
2.142	Screwdriver	40 Pc Multipurpose Set + 6 Bonus Tools		
2.143	Cordless Rotary Multitool Set	Cordless Tool with Full Kit for Cutting, Grinding, Polishing, Engraving (Up to 30000 RPM)		
2.144	Air Blower	500W+ Power, Adjustable Speed Blower		
2.145	Drill Bit Set	High Quality 13 Pcs HSS Drill Bits Set for Wood, Iron, Aluminum, Plastic etc.		
2.146	File set	6 pc file set Working length - 6 inch		
2.147	Mini File set	6 pc mini file set Working length - 3 inch		
2.148	Flexible Cutting Mat	A3 Size with Marked Pattern and Grids (18" X 12")		
2.149	Plastic Storage Drawer/Organizer	A number of Drawers: 60 or equivalent Drawer size (l*w*d) (inch): 2*2*5		
2.150	Pegboard	Peg board System to mount tools on wall with attachments. Size: 3ft*2ft		
2.151	Hot glue gun	Works with standard 0.5- inch glue sticks. Temperature - 230 to 280 degrees Celsius.		
2.152	Digital Oscilloscope	Minimum Bandwidth: 50 Mhz. A minimum number of channels: 2 channels. Sample Rate: 1GSa/s with an inbuilt waveform function generator. Variable Wattage of Soldering Iron: 15-30 watts/230 volts Soldering Iron Temperature Range: 280°C to 480°C		
2.153	Soldering Kit	De-Soldering Pump, Soldering Flux (Paste) 100 grams, De- soldering Copper Braid (Solder Wick) -1.5m*2mm Compatible Soldering Tip - Bevel, Chisel, Conical - 5 each per kit. Soldering Wire: 20/22 AWG soldering Wire with rosin core flux (100 Grams)		

2.154	Adapters	DC power Adapter with 5V,2A		
2.155	Adapters	DC power Adapter with 12V, 2A		
2.156	Multipurpose Electric screwdriver set.	Electric Screw Accessories - Compatible bits Mode - Wireless Battery - Li-ion Driver Set 3.6V or equivalent with charging dock		
2.157	Dual Temperature Heat Gun	1800W Dual Temperature Heat Gun		
2.158	Soldering Helping hand.	Specifications: Adjustable crocodile holding clamps/clip. Soldering iron holder. LED light. Magnifying lens.		
2.159	Return measuring tape	Return measuring tape 5Mx19mm		
2.160	Stainless Steel Rule	Stainless Steel 12" / 150 mm Rule		
2.161	Digital Vernier Caliper	150 mm/ 6" Digital Vernier Caliper		
2.162	Spirit Level	12" Spirit Level		
2.163	Digital Pen electric Tester	Voltage tester		
2.164	Digital Multimeter	Digital Multimeter Voltage Current Resistance-7 functions+ 19 ranges to cover DC voltage 200mV to 1kV, AC voltage 200 V - 750 V, DC current 200 μ A - 10 A, Resistance 200 -2 M Ohm and Transistor & diode test.		
2.165	DIY Paper Microscope	DIY Paper microscope. Magnification range – 100x to 2000x		
2.166	Telescope	All glass optical components, Altazimuth mount suitable for terrestrial and astronomical use, minimum 700 mm focal length		
2.167	Sewing Kit	Semi-Automatic Sewing machine Straight stitch Consumables - 2 set of assorted needles and 10- color spool set.		

PACKAGE – 04

SER NO.	SPECIFICATION		COMPLIANCE TO RFP SPECIFICATION WHETHER YES / NO	IN CASE OF NONCOMPLIANCE, DEVIATION FROM RFP TO BE SPECIFIED IN UNAMBIGUOUS TERMS
2.168	Glue Sticks	11 mm x 200mm Hot Melt Glue Stick		
2.169	Nuts and Bolts and screw	Specs - M4X12MM M4X20MM MSX16MM MSX25MM M6X20MM		
2.170	Cable Tie	Small Cable Tie Pack -Pack of 100		
2.171	Cable Tie	Medium Cable Tie Pack - Pack of 100		
2.172	Cable Tie	Big Cable Tie Pack - Pack of 100		
2.173	Sand Paper	Grit Values - 80, 100,120, 200, 300. 5 Nos of each		
2.174	Power Strip Adaptors	Standard Quality Extension with 5Amp safety fuse. 5 or more sockets in each extension. 5-meter length of each extension.		
2.175	Bulb Holders	Regular Hanging Bulb holder		
2.176	Electric Wires	Twisted Red black pair (20 Meter)		
2.177	USB TO DC jack cable	USB to DC jack cable for Battery bank		
2.178	First-Aid Kit	Standard Medical First Aid kit in portable container.		
2.179	Fire extinguisher (Handy units)	Powder Type Fire Extinguisher 2KG		
2.180	Safety goggles	Safety goggles (with/ without Polycarbonate Clear lens with no tint LED torch)		
2.181	Safety Gloves Pairs	Latex Coating Gloves (Medium Size)		
2.182	Safety Mask	Filtering efficiency ranging 80 percent when tested against 0.3- micron sodium chloride particle		

ADVANCE PROTOTYPING

SER NO.	SPECIFICATION	COMPLIANCE TO RFP SPECIFICATION WHETHER YES / NO	IN CASE OF NONCOMPLIANCE, DEVIATION FROM RFP TO BE SPECIFIED IN UNAMBIGUOUS TERMS
2.183	Advance Prototype		
2.184	Advance Prototype		

ATL BRANDING MATERIAL

SER NO.	SPECIFICATION	COMPLIANCE TO RFP SPECIFICATION WHETHER YES / NO	IN CASE OF NONCOMPLIANCE, DEVIATION FROM RFP TO BE SPECIFIED IN UNAMBIGUOUS TERMS
2.185	AIM-ATL Branding Sunboard – 3 x 1.5ft		
2.186	AIM-ATL Branding Sunboard – 3 x 3ft		
2.187	AIM-ATL Branding Flex for Outside of the lab – 3 x 1.5 ft		
2.188	ATL Lab Sinages Sunboard – 2 x 1.5ft		
2.189	Tinker Wall Sunboard – 5 x 10ft		
2.190	3D ATL Board Acrylic – 5 x 2ft		

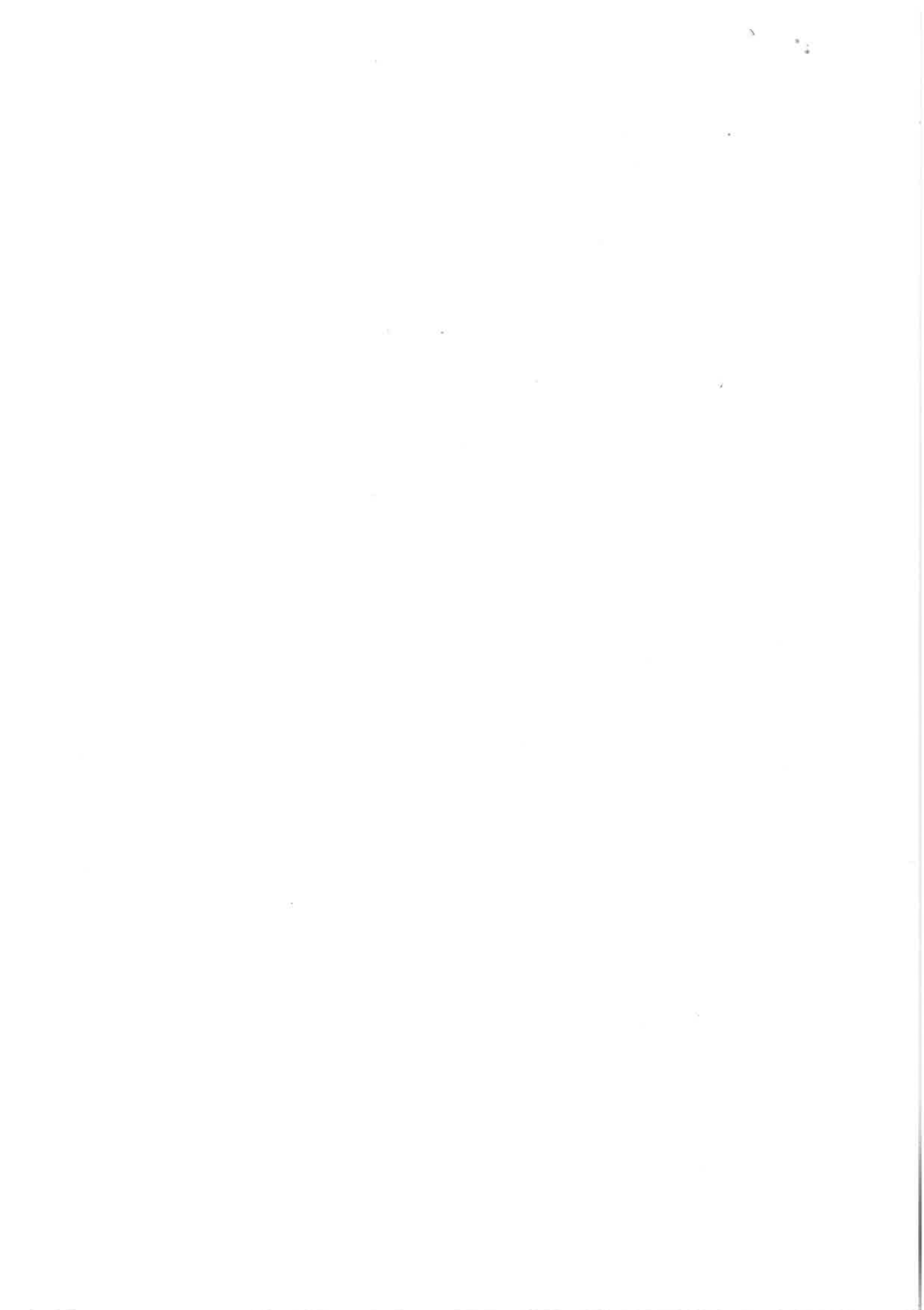
FURNITURE

SER NO.	SPECIFICATION	COMPLIANCE TO RFP SPECIFICATION WHETHER YES / NO	IN CASE OF NONCOMPLIANCE, DEVIATION FROM RFP TO BE SPECIFIED IN UNAMBIGUOUS TERMS
2.191	Work Table Metal (frame & legs) MDF Pre-laminated – 3 x 3ft		
2.192	Work Table for 3D Printer Metal (frame & legs) MDF Pre-laminated – 4 x 4ft		
2.193	Work Table for Drilling station Metal (frame & legs) MDF Pre-laminated – 4 x 4ft		
2.194	Soldering Metal (frame & legs) MDF		

	station with utility shelf	Pre-laminated – 4 x 2ft		
2.195	Stools	Plastic with cushion-standard 35Pcs + 5 chair for teachers		
2.196	Activity table	Wooden border, MDF, pre-laminated surface and wooden stand – 8 x 4ft		
2.197	Almirah	Metal Almirah – 6 x3ft		
2.198	Computer table	MDF Pre-laminated – standard		

STEM LAB EQUIPMENTS

SER NO.	SPECIFICATION		COMPLIANCE TO RFP SPECIFICATION WHETHER YES / NO	IN CASE OF NONCOMPLIANCE, DEVIATION FROM RFP TO BE SPECIFIED IN UNAMBIGUOUS TERMS
2.199	Bolt lot	An easy interface to quickly connect your hardware to cloud over GPIO, UART and ADC. Also, connects to MOSBUS, I2C and SPI with and additional converter		
2.200	3D pen	With 3D printer pens, you can instantly form a 3D structure.		
2.201	Rechargeable Battery	Uniross 210 HYB 9V BP Rechargeable Batteries		
2.202	AAA Rechargeable Battery	Dura cell		
2.192	AA Rechargeable Battery	Dura cell		
2.193	Charges for 9V AA, AAA	Unicross		
2.194	Touch Display	7inch touch display for raspberry pi		
2.195	Input	Keyboard Mouse combo wireless		
2.196	AR VR	With NCERT content loaded		
2.197	Robotics Arm	6 DOF Metal Robotics ARM		
2.198	Turtle Car			
2.199	Microscope	For pcb soldering		



Annexure 'B'

ESTABLISHMENT AND FULL SET UP OF ATAL TINKERING LAB FOR AIR FORCE SCHOOL JAMNAGAR.

COMMERCIAL BID

SL. NO	ITEM	HSN CODE	QTY	BASIC RATE	ADD: GST (%)	NET AMOUNT	TOTAL AMOUNT
1.1							
1.2							
1.3							
1.4							
1.5							
TOTAL							

Authorised signature and stamp of firm

3AIR FORCE SCHOOL JAMNAGAR
PART – II SET UP OF ATAL TINERING LAB
PACKAGE - 01

SER NO.	SPECIFICATION		QTY
2.1	Arduino Uno or equivalent	ATmega328P - 8-bit AVR family microcontroller, equivalent or better. Operating Voltage: 5V Digital I/O Pins: 14 {of which 6 provide PWM output) PWM Digital I/O Pins: 6, Accessories: Case shell enclosure, compatible USB cable {length - 6 inches or more)	30
2.2	Arduino Nano or equivalent	ATmega328P - 8-bit AVR family microcontroller, equivalent or better. Operating Voltage: 5V Digital I/O Pins: 14 {of which 6 provide PWM output) Analog Input Pins: 8 Accessories: Compatible USB cable {length 6 inch or more)	10
2.3	Arduino Mega or equivalent	ATmega2560P - 8-bit AVR family microcontroller, equivalent or better. Operating Voltage: 5V Digital I/O Pins: 54 (of which 6 provide PWM output) Analog Input Pins: 16 Accessories: Case shell enclosure, Compatible USB cable (length 6 inch or more)	10
2.4	Raspberry Pi 3 Model B+	RASPBERRY PI 3 MODEL B+, equivalent or better Accessories - MicroSD card - 32 GB, USB 3.0 cable (1 meter), HDMI to VGA – 1 meter, HDMI to VGA adapter, Case shell enclosure	5
2.5	Breadboards & Mini Breadboard	Solderless 400 pin breadboard	30
2.6	Breadboards & Mini Breadboard	Solderless 800 pin breadboard	20
2.7	Breadboards & Mini Breadboard	Self-Adhesive Proto Shield	20
2.8	General Purpose solderable Board	FR2 A Grade Material (140 x90 mm)	30
2.9	General Purpose solderable Board	FR2 A Grade Material (80 x 55 mm)	30
2.10	Berg Strips	Female Berg Strip, 2.54mm pitch, 40 pin single row, breakable pin	30

2.11	Berg Strips	Male Berg Strip, 2.54mm pitch, 40 pin single row, breakable pin	30
2.12	16x2 LCD display	Dot matrix LCD display. 16 characters X 2 lines. I2C	20
2.13	USB Cables	USB Cable Set (A to B, 12 inch or more)	10
2.14	USB Cables	USB Cable Set (Mini, 12 inches or more)	10
2.15	Battery	9-12V 2000 to 2500 mAh rechargeable battery with 2 chargers. Equivalent or better	10
2.16	Resistor Kit	One kit contains - 30 carbon film resistors of 20 different resistance values each. Assorted, packaged together and labelled. Wattage: 0.125W to 1W Values: 0Ω, 1.5 Ω, 4.7 Ω, 10 Ω, 47 Ω, 100 Ω, 220 Ω, 330 Ω, 470 Ω, 680 Ω, 1k Ω, 2.2k Ω, 3.3k Ω, 4.7k Ω, 10k Ω, 22k Ω, 47k Ω, 100k Ω, 330k, 1M Ω One kit contains - 20 electrolytic capacitors of 10 different capacitance values each.	20
2.17	Capacitor Kit	Assorted kit packaged together and labelled. Values: 10pF, 22pF, 100pF, 1nF, 10nF, 100nF, 1μF, 10μF, 100μF, 1000μF	20
2.18	Linear Voltage Regulator	7805, 7812, 7809	30
2.19	Water Pump module	DC12V 3W Submersible Water Pump	4
2.20	Piezoelectric Plate	Normal Copper based 4 cm Diameter approx.	30
2.21	8*8 LED Matrix Module	Max7219 Dot LED Matrix Module. MCU Control LED Display Module	10
2.22	Bluetooth module	HC 05 Bluetooth module Voltage Rating: 5 V	15
2.23	7 Segment Led Display	LED 4-Digit Display Module, Voltage Rating: 2.4V to 5.5V 4-Pin interface: Vcc, Gnd, Data, Clock	20
2.24	GSM	Sim900 GPRS Transfer Board Micro Sim GSM Core TTL Port Module for Arduino	4
2.25	GPS	GY-NE06MV2 new GPS module	4
2.26	Laser Diode Emitter	650 nm 5mW Mini Laser Dot Diode Module	10
2.27	LDR Module	5mm/12mm, Photosensitive LDR Light Sensor Module	30
2.28	Keypad	Universal 16 Key Switch Keypad	10
2.29	Joystick	2-axis joystick with push button function	10
2.30	Active Buzzer	Small 5 volt	40
2.31	Active Buzzer	Big 5 volt	40
2.32	Motor driver Module	L293D	10

2.33	Sound Playback Module	ISD1820 voice recording module or equivalent	10
2.34	DC motor	Plastic Gear with 12V, 150RPM, Side Shaft BO (Battery operation) Motor with wheel	40
2.35	Node MCU	ESP 8266 - 12C, 1 wire, plug and play	6
2.36	WeMo's D1 R2	WeMo's D1 R2 with WIFI ESP 8266, Operating Voltage: 5V	6
2.37	Vibrating Motor	Weight: 10 Grams Operating Voltage: 1.5 to 3V	20
2.38	Alligator Connectors	Multi-Color Alligator Connectors - 12 inch	200
2.39	Battery clips with DC Jack	9-volt battery clips with DC Jack	40
2.40	Hook-up Wires	Red & Black set 100 Meters each	4
2.41	Jumper Cable	Male-Male	1000
2.42	Jumper Cable	Male-Female	600
2.43	Jumper Cable	Female-Female	400
2.44	LEDs Regular 5mm 3–5volt Range	RGB LEDs	400
2.45	LEDs Regular 5mm 3–5volt Range	LEDs (Red)	1000
2.46	LEDs Regular 5mm 3–5volt Range	LEDs (Green)	1000
2.47	LEDs Regular 5mm 3–5volt Range	LEDs (Blue)	1000
2.48	LEDs Regular 5mm 3–5volt Range	LEDs (Yellow)	1000
2.49	LEDs Regular 5mm 3–5volt Range	LEDs (White)	1000
2.50	LM 555 Timer IC	Timer IC- LM 555, Voltage range - 4.5V to 16V	30
2.51	Atmega16u2	8-bit microcontroller Individual IC (DIP). Voltage range: 2.7V to 5.5V Operational Range: -40°C to +80°C	10
2.52	Diodes and Transistors Kit	One Kit Contains - 25 Assorted Basic Diodes of 4 different types each. Types: NPN Transistor - 2N3904, BC547 PNP Transistor - 2N3906, BC557. Silicon Diode - 1N4148 Power Diode - 1N4004/4001. Wattage: 1W, Current rating: 1A Assorted kit packaged together and labelled.	3
2.53	Button Switch	One Kit Contains - 100 buttons of different types. Set Types: Push, toggle, rotary, selector and slide switch.	3

		Assorted kit packaged together and 20labelled.	
2.54	Capacitive touch Module	M10PR 121 with I2C. Voltage Range: 2.5V to 3.206V DC	20
2.55	Capacitive Touch Module	Digital10 Capacitive touch switch module TTP22310B Switch, Voltage Range: 2V to 5V DC. 10	10
2.56	IR Sensors	Obstacle avoider Detection, LM393 distance: 2 - 30 cm ,Detection angle: 30 - 40°	20
2.57	Triple Axis Magnetometer	3-Axis Magneto resistive Sensors, I2C, Digital Interface Integrated 12-bit ADC, Range of -8 to +8 Gauss 160 Hz Maximum O/P rate, Operating range: 20-95 % RH	10
2.58	Humidity Sensor	Temperature: 0 - 60 Celsius, Power supply: 1.5V AC (Max sine), Operating frequency: 500Hz - 2kHz	10
2.59	MQ Series	MQ - 2 Smoke Detection	10
2.60	MQ Series	MQ-3 Alcohol - Ethanol Sensor	3
2.61	MQ Series	MQ-4 Methane Natural Gas Sensor	3
2.62	MQ Series	MQ-5 Methane Liquified Gas Sensor	3
2.63	MQ Series	MQ-6 Liquified Petroleum Gas Sensor	3
2.64	MQ Series	MQ-7 High Sensitivity CO Carbon Monoxide Sensor Detector	3
2.65	MQ Series	MQ-8 Hydrogen Gas Sensor	3
2.66	MQ Series	MQ-135 Air Quality Sensor	3
2.67	IR transmitter/ TSOP 1738	Switching rate: 38 kHz, receiver Voltage Rating: 5V, Working Voltage - DC 5V	3
2.68	Ultrasonic Sensor	Working current - 15 mA Working Frequency - 40 Hz Module HC-SR-04 Range - 1 cm to 4 m Effectual Angle - <15° Measuring Angle - 30° Resolution - 0.3 cm	40
2.69	Triple Axis accelerometer	3-axis sensing, low-profile package 4 mm x 4 mm x 1.45 mm LFCSP Low Power: 350 µA (typical) Single-supply operation: 1.8 V to 3.6 V Temperature stability	10
2.70	PIR Motion Detector	High digital pulse when motion detected Low digital pulse when idle/no motion detected Module Sensitivity range (up to 6 m) Power supply: 5V - 12V	20
2.71	Pulse Rate Heart Sensor	Pulse Rate Sensor Finger Based (finger or earlobe) Working voltage 3-5V	4
2.72	Relay Module	5V 10A - 2 Channel Relay Module. Compatible with Arduino.	20
2.73	Relay Module	5V 10A - 1 Channel Relay Module. Compatible with Arduino.	20

2.74	Big Sound microphone module	Large Electret capsule sound module	10
2.75	Soil Moisture Sensor	FC-28 with LM293 comparator module, Operating Voltage: 3.3V to 5V.	6
2.76	Touch Sensor	Capacitive Touch Sensor Module. TTP22X series. Voltage Range: 2.4V to 5.5V	6
2.77	Metal Touch Sensor Module	KY-036 or equivalent metal touch sensor module	6
2.78	Rain Drop Sensor	Rain Sensitive, Rain Drop Detection Sensor Module. Voltage Range: 3.3V to 5.5V Size: 5mm X 40mm or equivalent.	6
2.79	Flex Sensor	Flex Sensor, Size - 2.2 Inches	6
2.80	Temperature Sensor	LM35 Full range temperature sensor. Voltage Range: 4V to 30V. Error: $\pm 0.5^{\circ}\text{C}$	6
2.81	Temperature and humidity sensor	DHT 11, Voltage Range: 3V to 5V	40
2.82	Force Pressure Sensor	Force sensitive resistor with a square, 1.75x1.5" sensing area	4
2.83	Color Recognition Sensor	TCS3200 Color Recognition Sensor	4
2.84	Water Flow Sensor	Arduino Compatible Water flow sensor, 5V DC Input.	4
2.85	Sound Sensor Module	Sound Sensor , Microphones module	10
2.86	IR Sensors Array	8 IR Sensors Array module for Line Following, Operating Voltage: 5V	10
2.87	Power Bank	20000 mAh 5-volt Power Bank	5
2.88	RFID Reader - Tags	Current :13-26mA / DC 3.3V Idle Current :10-13mA Sleep Current<80uA Tags Peak Current<30mA Operating Frequency: 13.56MHz<30mA Read range between 20 cm to 1m Frequency Range: 433.92/315 MHz	10
2.89	RF Modules Tx & Rx	Supply Voltage: 3 - 6 V 315 MHz Output: 4 - 16 Dbm Low power consumption Easy application	10
2.90	Stepper motor with Driver board 28BYJ-48	ULN2003 5V Stepper Motor+ ULN2003 Driver Board	10
2.91	DC motor	12V DC Gear 150 RPM	20
2.92	Servo motors	Position Servo Angle based Metal Gear	10
2.93	Servo motors	Small Servo Metal Gear	10
2.94	Servo motors	Continuous Metal Gear Servo 360	10
2.95	Servo motors	Small Servo Plastic Gear	40

2.96	150 RPM BO Motor	150 RPM BO Motor	10
2.97	L298P Motor Driver	L298P Motor Driver Shield or relative Driver Shield	10
2.98	Servo Motor Tester	CCPM 3 channel Servo Tester	4
2.99	Robotics DIY Kit	Robotics DIY kit with programmable intelligent brain/ brick.	3
2.100	Mechanical construction kit	Mechanical (Modular) Metal/plastic compatible with electronic Construction kit equipment.	5
2.101	Drone Kit	Educational drone kit with flight controller, brushless motors, Li-Po battery, remote control, sensors, safety features, and learning materials for STEM training.	1
2.102	Aerospace Kit	Educational aerospace kit for learning aerodynamics, propulsion, satellite basics, space science concepts, hands-on experiments, and STEM skill development.	1
2.103	Automobile Kit	Hands-on automobile learning kit covering vehicle mechanics, power systems, sensors, safety components, and practical experiments for real-world automotive understanding.	1
2.104	Bio-Medical Kit	Biomedical kit including ECG, heart rate sensor, oximeter, EMG cable, temperature sensor, and accessories for practical medical electronics learning.	1
2.105	Agri-Tech Kit	Agri-Tech learning kit covering soil testing, irrigation control, crop monitoring sensors, weather analysis, and smart farming experiments for agricultural education.	1
2.106	Water/ Sanitation Kit	Water and sanitation kit for learning water quality testing, filtration methods, hygiene practices, waste management, and safe drinking water solutions.	1
2.107	Bio Tech Kit	DIY biology kit for kids is an exciting means to use tech to understand their biological selves and make cool projects fusing the two.	1
2.108	Other Potential STEM Application Kit	Hands-on automobile learning kit covering vehicle mechanics, power systems, sensors, safety components, and practical experiments for real-world automotive understanding.	1

PACKAGE - 02

SER NO.	SPECIFICATION		Qty
2.109	3D Printer Kit and tools	Printer Type: FDM (Fused Deposition Modelling), Minimum Dimensions: 60mm *160mm *160mm, Build Size or 4 liters Build Volume. Nozzle: 0.3mm to 0.4mm nozzle diameter, slicing software should be free or Open source, LCD Screen UI that display print metrics, Good Heated Print bed. Material Compatibility - PLA, ABS, and derivatives of PLA, Ninjaflex Quality Anti-bacterial/ fungal Cover. Repair Kit - with spare springs, crews, keys, tweezers, etc.	1
2.110	UPS	Dedicated UPS/Power Back up with 2-hour battery backup.	1
2.111	Filament	Compatible 1000 Grams Filament in 5 different colors	5
2.112	Filament Storage Box	Compatible Filament storage box	5
2.113	Set of Arts & Crafts	Cardboard	5
2.114	Set of Arts & Crafts	Foam core boards	5
2.115	Set of Arts & Crafts	20m spool of thick strings of various colour	5
2.116	Set of Arts & Crafts	Material Rubber band	1200
2.117	Set of Arts & Crafts	Popsicle sticks	100

2.118	Set of Arts & Crafts	Wood glue - 500 ml	2
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PACKAGE - 03

SER NO.	SPECIFICATION		QTY
2.119	Hacksaw Frame	Blade Size: 12 inch	1
2.120	Hacksaw blades	Compatible with 12 inch frame	10
2.121	Mini Hacksaw Frame	Blade Size: 6 inch	1
2.122	Mini Hacksaw blades	Fits 6 inch mini frame	10
2.123	Pliers: 4.5-inch Size	External Straight Tip	1
2.124	Pliers: 4.5-inch Size	Circlip Nose Plier	1
2.125	Pliers: 4.5-inch Size	Long Nose Design	1
2.126	Pliers: 4.5-inch Size	Compact Combination Pliers	1
2.127	Pliers: 4.5-inch Size	Wire Stripping Function	1
2.128	Pliers: 4.5-inch Size	Bent Nose Grip	1
2.129	Pliers: 4.5-inch Size	Needle Nose Precision	1
2.130	Tweezer Set	6 Pc Non-Magnetic Tweezers, 6 inch length	2
2.131	Ball Pein Hammer	Head Weight: 0.75 kg	1
2.132	Steel Shaft Claw Hammer	Claw Hammer, Steel Handle, 0.75 kg	1
2.133	C-Clamp	Heavy Duty 3-inch Metal Clamp	4
2.134	Allen Key Set	10 Pc Imperial Ring Hex Key Set	1
2.135	Drill Machine Set	500W Drill Machine with Accessories, Forward/Reverse Modes, 1–10mm Chuck	1
2.136	Drilling Workstation	Drill Press Stand compatible with portable drill	1

2.137	Spanner Set	12 Pc Combination Set, 4–30 mm Range	1
2.138	Vice Normal	Heavy Table Top Vice	1
2.139	6 Piece Precision Screw Driver Set	PH0, PH1, Flat (1.4mm, 2mm, 2.4mm, 3mm) Set	2
2.140	Wrench	Universal Adjustable Wrench	2
2.141	Wire Strippers	Wire Cutter cum Stripper with Spring	5
2.142	Screwdriver	40 Pc Multipurpose Set + 6 Bonus Tools	3
2.143	Cordless Rotary Multitool Set	Cordless Tool with Full Kit for Cutting, Grinding, Polishing, Engraving (Up to 30000 RPM)	1
2.144	Air Blower	500W+ Power, Adjustable Speed Blower	1
2.145	Drill Bit Set	High Quality 13 Pcs HSS Drill Bits Set for Wood, Iron, Aluminum, Plastic etc.	1
2.146	File set	6 pc file set Working length - 6 inch	1
2.147	Mini File set	6 pc mini file set Working length - 3 inch	1
2.148	Flexible Cutting Mat	A3 Size with Marked Pattern and Grids (18" X 12")	1
2.149	Plastic Storage Drawer/Organizer	A number of Drawers: 60 or equivalent Drawer size (l*w*d) (inch): 2*2*5	2
2.150	Pegboard	Peg board System to mount tools on wall with attachments. Size: 3ft*2ft	2
2.151	Hot glue gun	Works with standard 0.5- inch glue sticks. Temperature - 230 to 280 degrees Celsius.	4
2.152	Digital Oscilloscope	Minimum Bandwidth: 50 Mhz. A minimum number of channels: 2 channels. Sample Rate: 1Gsa/s with an inbuilt waveform function generator. Variable Wattage of Soldering Iron: 15-30 watts/230 volts Soldering Iron Temperature Range: 280°C to 480°C	1
2.153	Soldering Kit	De-Soldering Pump, Soldering Flux (Paste) 100 grams, De- soldering Copper Braid (Solder Wick) -1.5m*2mm Compatible Soldering Tip - Bevel, Chisel, Conical - 5 each per kit. Soldering Wire: 20/22 AWG	4

		soldering Wire with rosin core flux (100 Grams)	
2.154	Adapters	DC power Adapter with 5V,2A	10
2.155	Adapters	DC power Adapter with 12V, 2A	10
2.156	Multipurpose Electric screwdriver set.	Electric Screw Accessories - Compatible bits Mode - Wireless Battery - Li-ion Driver Set 3.6V or equivalent with charging dock	1
2.157	Dual Temperature Heat Gun	1800W Dual Temperature Heat Gun	1
2.158	Soldering Helping hand.	Specifications: Adjustable crocodile holding clamps/clip. Soldering iron holder. LED light. Magnifying lens.	4
2.159	Return measuring tape	Return measuring tape 5Mx19mm	2
2.160	Stainless Steel Rule	Stainless Steel 12" / 150 mm Rule	5
2.161	Digital Vernier Caliper	150 mm/ 6" Digital Vernier Caliper	2
2.162	Spirit Level	12" Spirit Level	1
2.163	Digital Pen electric Tester	Voltage tester	1
2.164	Digital Multimeter	Digital Multimeter Voltage Current Resistance-7 functions+ 19 ranges to cover DC voltage 200mV to 1kV, AC voltage 200 V - 750 V, DC current 200 μ A - 10 A, Resistance 200 -2 M Ohm and Transistor & diode test.	5
2.165	DIY Paper Microscope	DIY Paper microscope. Magnification range – 100x to 2000x	5
2.166	Telescope	All glass optical components, Altazimuth mount suitable for terrestrial and astronomical use, minimum 700 mm focal length	1
2.167	Sewing Kit	Semi-Automatic Sewing machine Straight stitch Consumables - 2 set of assorted needles and 10- color spool set.	1

PACKAGE – 04

SER NO.	SPECIFICATION		QTY
2.168	Glue Sticks	11 mm x 200mm Hot Melt Glue Stick	100
2.169	Nuts and Bolts and screw	Specs - M4X12MM M4X20MM MSX16MM MSX25MM M6X20MM	40
2.170	Cable Tie	Small Cable Tie Pack -Pack of 100	10
2.171	Cable Tie	Medium Cable Tie Pack - Pack of 100	10
2.172	Cable Tie	Big Cable Tie Pack - Pack of 100	10
2.173	Sand Paper	Grit Values - 80, 100,120, 200, 300. 5 Nos of each	10
2.174	Power Strip Adaptors	Standard Quality Extension with 5Amp safety fuse. 5 or more sockets in each extension. 5-meter length of each extension.	5
2.175	Bulb Holders	Regular Hanging Bulb holder	10
2.176	Electric Wires	Twisted Red black pair (20 Meter)	1
2.177	USB TO DC jack cable	USB to DC jack cable for Battery bank	10
2.178	First-Aid Kit	Standard Medical First Aid kit in portable container.	2
2.179	Fire extinguisher (Handy units)	Powder Type Fire Extinguisher 2KG	2
2.180	Safety goggles	Safety goggles (with/ without Polycarbonate Clear lens with no tint LED torch)	30
2.181	Safety Gloves Pairs	Latex Coating Gloves (Medium Size)	10
2.182	Safety Mask	Filtering efficiency ranging 80 percent when tested against 0.3-micron sodium chloride particle	20

ADVANCE PROTOTYPING

SER NO.	SPECIFICATION	QTY
2.183	Advance Prototype	5

2.184	Advance Prototype	5
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ATL BRANDING MATERIAL

SER NO.	SPECIFICATION		QTY
2.185	AIM-ATL Branding	Sunboard – 3 x 1.5ft	5
2.186	AIM-ATL Branding	Sunboard – 3 x 3ft	3
2.187	AIM-ATL Branding	Flex for Outside of the lab – 3 x 1.5 ft	3
2.188	ATL Lab Sinages	Sunboard – 2 x 1.5ft	12
2.189	Tinker Wall	Sunboard – 5 x 10ft	1
2.190	3D ATL Board	Acrylic – 5 x 2ft	1

FURNITURE

SER NO.	SPECIFICATION		QTY
2.191	Work Table	Metal (frame & legs) MDF Pre-laminated – 3 x 3ft	6
2.192	Work Table for 3D Printer	Metal (frame & legs) MDF Pre-laminated – 4 x 4ft	1
2.193	Work Table for Drilling station	Metal (frame & legs) MDF Pre-laminated – 4 x 4ft	1
2.194	Soldering station with utility shelf	Metal (frame & legs) MDF Pre-laminated – 4 x 2ft	2
2.195	Stools	Plastic with cushion-standard 35Pcs + 5 chair for teachers	40
2.196	Activity table	Wooden border, MDF, pre-laminated surface and wooden stand – 8 x 4ft	1
2.197	Almirah	Metal Almirah – 6 x3ft	2
2.198	Computer table	MDF Pre-laminated – standard	2

STEM LAB EQUIPMENTS

SER NO.	SPECIFICATION		QTY
2.199	Bolt lot	An easy interface to quickly connect your hardware to cloud over GPIO, UART and	2

		ADC. Also, connects to MOSBUS, I2C and SPI with and additional converter	
2.200	3D pen	With 3D printer pens, you can instantly form a 3D structure.	5
2.201	Rechargeable Battery	Uniross 210 HYB 9V BP Rechargeable Batteries	10
2.202	AAA Rechargeable Battery	Dura cell	10
2.192	AA Rechargeable Battery	Dura cell	10
2.193	Chargers for 9V AA, AAA	Unicross	2
2.194	Touch Display	7inch touch display for raspberry pi	5
2.195	Input	Keyboard Mouse combo wireless	5
2.196	AR VR	With NCERT content loaded	1
2.197	Robotics Arm	6 DOF Metal Robotics ARM	1
2.198	Turtle Car		1
2.199	Microscope	For pcb soldering	1

