

APS/Accts/1763

Mar 2021

To,

**INVITATION OF BIDS FOR PURCHASE OF QUADCOPTER FOR
ARMY PUBLIC SCHOOL NAGROTA**

TENDER NOTICE

1. Bids under **Advertised Tender Enquiry (Two-Bid System)** are invited by the Principal Army Public School, Nagrota herein after referred to as Buyer for and on behalf of the Chairman, Army Public School, Nagrota for supply of items listed in Part II of this Tender.

2. Bids in a sealed cover are invited for supply of items listed in Part II of this Tender. Please superimpose the above-mentioned title and Tender number on the sealed cover to avoid the Bid being declared invalid.

3. The address and contact numbers for sending bids or seeking clarifications regarding this Tender are given below:–

(a) **Bids/Queries to be addressed to.**

Principal
Army Public School Nagrota
PO Kandoli Nagrota
Jammu -181221

(b) **Postal Address for Sending the Bids.**

Principal
Army Public School Nagrota
PO Kandoli Nagrota
Jammu -181221

(c) **Name/Designation of the Contact Personnel.**

Mrs Ruchi Bahl
Principal
Army Public School Nagrota
PO Kandoli Nagrota
Jammu -181221

(d) **Telephone Numbers of the Contact Personnel.**

Principal - 0191-2957198

(e) **E-mail ID of contact personal** - apsnagrota@gmail.com

(f) **Fax number.** -

4. This Tender is divided into five Parts as following:-

(a) Part I – Contains General Information and Instructions for the Bidders about the Tender such as the time, place of submission and opening of tenders, Validity period of tenders, etc.

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

(c) Part III – Contains Standard Conditions of Tender, which will form part of the Contract with the successful Bidder.

(d) Part IV – Contains Special Conditions applicable to this Tender and which will also form part of the Contract with the successful Bidder.

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

5. This Tender 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 Tender, should it become necessary at any stage.

6. Please acknowledge receipt.

(Mrs Ruchi Bahl)
Principal
For Chairman
Army Public School Nagrota

PART I – GENERAL INFORMATION

1. **Critical Dates**. The critical dates with respect to the Tender are as following:-

CRITICAL DATE SHEET

| Ser No | Item | Date | Time |
|---------------|--------------------------|-------------|------------------|
| (a) | Issue Date/ Dates | 23 Jun 2021 | 0800 hrs onwards |
| (b) | Clarification Start Date | 23 Jun 2021 | 0800 hrs onwards |
| (c) | Bid Submission Start | 23 Jun 2021 | 0800 hrs onwards |
| (d) | Clarification End Date | 08 Jul 2021 | 1100 hrs |
| (e) | Bid Submission End | 08 Jul 2021 | 1100 hrs |
| (f) | Bid Opening Start | 08 Jul 2021 | 1200 hrs onwards |

2. **Manner of depositing the Bids**. Sealed bids (Technical and Commercial) should either be dropped in Tender Box marked as "**Tender Box** " kept at reception of Army Public School, Nagrota or sent by registered post/courier/speed post at the address given in para 2(b) so as to reach by due date and time. This office is not responsible for any postal delays/non-delivery of bids/documents. Bids submitted after due date/sent by fax or email will not be considered. Technical and commercial bids will be supplied in separate sealed envelopes with the documents mentioned below and both the sealed envelopes should be put under one envelop with title (**Bid for purchase of Quadcopter for Army Public School Nagrota and Tender number**).

- (a) **Cover-I** Cover-I will contain the **Technical Bids** consisting of following documents :-

- (i) Proof of valid Registration/renewal of registration.
- (ii) PAN No, GST/VAT/TIN/Registration.
- (iii) Certificate of acceptance of terms and conditions of Tender on firms letter head.
- (iv) **Tender Conditions Acceptance Certificate**. The bidder shall certify for acceptance of all the tender conditions of the Tender and furnish a certificate as per **Appx 'A'**. In case of any deviations, the bid shall be rejected. If the certificate is signed by legally authorised signatory, a copy of the authorization letter be enclosed.
- (v) Clause by clause compliance of specifications certificates mentioned in Para 3 Part II of the Tender.
- (vi) OEM authorisation certificate if any.
- (vii) Technical data sheet of equipments and brochures.
- (viii) Requirement of Technical documentation.
- (ix) Technical details with technical parameters as per **Appx 'B'**.
- (x) Requirement of pre-site/equipment inspection.
- (xi) Requirement of installation/commissioning.
- (xii) Nature of assistance required after completion of warranty.
- (xiii) Any other details, as considered necessary.

- (b) **Cover-II** Commercial bid will be submitted in a separate packet as per the format given in Part-I and II of **Appx 'C'**.

3. **Time and Date for Opening Of Bids.** On **08 Jun 2021 at 1200** hrs at Office, Army Public School, Nagrota (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.** "TENDER BOX" is kept at reception of Army Public School, Nagrota.
- (a) The physical receipt of specified document shall be mandatory prior to bid opening.
 - (b) The non receipt of the documents in tender box shall render non acceptance of the technical bid.
 - (c) Only those document specified in the tender document and found in the tender box will be opened.
 - (d) Specified documents (Bids) dropped in the wrong Tender Box will be rendered invalid.
 - (e) No post-bid clarification on the initiative of the bidder will be entertained.
5. **Place of opening of the bids.** Army Public School, Nagrota. The Bidders may depute their representatives, duly authorized in writing, to attend the opening 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 all the Bidders. This event will not be postponed due to non-presence of bidder/ their representative.
6. **Opening of Tender Box.** Tender box will be opened by a duly constituted board of officers on **08 Jun 2021 at 1200 hrs**. Date of opening of technical bid will be intimated later and may be attended by Bidders representative. Commercial bids of only technically responsive/compliant bidders shall be opened and evaluated by duly constituted Boards of Officers. The technical and commercial bids will be evaluated as per criteria hereinafter.
7. **Clarification Regarding Contents of the Tender.** A prospective Bidder who requires clarification regarding the contents of the bidding documents shall notify to the Buyer in writing about the clarifications sought not later than **07 (seven) days** prior to the date of opening of the Bids. Copies of the query and clarification by the Buyer will be addressed to the Project officer.
8. **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 mail/ email 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 specified. Withdrawal of a bid during this period will result in Bidder's forfeiture of bid security, if any.
9. **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.
10. **Rejection of Bids.** Canvassing by the Bidder in any form, unsolicited letter and post-tender correction may invoke summary rejection. Conditional tenders will be rejected.

11. **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 Tender.
12. **Validity of Bids.** The Bids should remain valid till **120 days** from last date of submission of the Bids.
13. Each element of cost such as basic cost of items, freight, insurance, and other requirements such as levies, taxes, duties levied by Central/State/Local governments such as GST, excise duty, VAT, Service tax, octroi/entry tax, etc on the final product should be specified clearly, separately and unambiguously in the commercial bids. Taxes will be as applicable to govt purchases.
14. In case the responsiveness and reliability of the Seller is found lacking at any stage, the Buyer at his discretion reserves the right to prevent the Seller from participating in any other contract being undertaken by the Buyer.

-End of Part I-

PART - II**ESSENTIAL DETAILS OF ITEMS/ SERVICES REQUIRED**

1. **Schedule of Requirement.** List of items/services is as follows:-

| Ser | Nomenclature | Qty |
|------------|--------------------------------------|------------|
| (a) | Quadcopter with day and night camera | 01 |

2. **Technical Details.**

(a) **Specifications/ Technical details with technical parameters** - As per Appx 'D'.

(b) **Requirement of Installation/Commissioning.** Onsite installation and commissioning of equipment along with accessories will be responsibility of the Seller. Principal, Army Public School, Nagrota, would issue a completion certificate on successful completion. The project will be deemed to be completed once the acceptance certificate for the system and certificate for successful completion are issued.

(c) **Requirement of Technical Documentation.** Technical literature of items supplied should be provided by the seller part of this project.

(d) **Nature of Assistance Required after Completion of Warranty.** The Bidder should provide maintenance for the eqpt (supplied by him) and on site repair during the warranty period.

(e) **Technical Literature.** Same as Para 2 (c).

3. **Two Bid System.** Two Bid system will be resorted to (Technical and Commercial).

(a) The Technical Bids shall be opened as per critical date sheet mentioned in this tender document by a TEC.

(b) The Commercial Bids of only those Bidders whose technical bids meet all the stipulated (Technical) requirements shall be opened. The date opening will be intimated to the Bidders.

4. **Delivery Period.** Delivery period for supply of items will be within 30 days from the **effective date of contract**. Please note that Contract can be cancelled unilaterally by the Buyer in case items are not received within the contracted delivery period. Extension of delivery period will be at the sole discretion of the Buyer, with applicability of LD clause.

(a) Terms of delivery - Local delivery at consignee site.

(b) Delivery of stores within 30 days from effective date of Contract.

(c) Installation and acceptance testing within 30 days from effective date of contract.

5. **Delivery place.** Delivery of goods/services will be at Army Public School, Nagrota.

6. **Consignee Details.**

Mrs Ruchi Bahl
Principal
Army Public School Nagrota
PO Kandoli Nagrota
Jammu -181221

PART - III**STANDARD CONDITIONS OF TENDER**

The Bidder is required to give confirmation of their acceptance of the Standard Conditions of the Request for Proposal (Tender) mentioned below which will automatically be considered as part of the Contract concluded with the successful Bidder (i.e. Bidder 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. **The Effective Date of the Contract.** The Effective Date of Contract will be the date of formal acceptance of Contract by the Successful Bidder or the seventh day following the placement of Contract whichever is earlier. 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 at court as per choosing of Army Public School, Nagrota.
4. **Penalty for Use of Undue Influence.** The Bidder 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 Bidder or any one employed by him or acting on his behalf (whether with or without the knowledge of the Bidder) or the commission of any offence by the Bidder 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 Bidder and recover from the Bidder 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 Bidder. Giving or offering of any gift, bribe or inducement or any attempt at any such act on behalf of the Bidder 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 favour in relation to this or any other Contract, shall render the Bidder 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. **Agents/ Agency Commission.** The Bidder confirms and declares to the Buyer that the Bidder is the original manufacturer/ supplier 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 Bidder; 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 Bidder 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 Bidder 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 Bidder will be liable to refund that amount to the Buyer. The Bidder will also be debarred from entering into any 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 Bidder 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 LIBOR rate. The Buyer will also have the right to recover any such amount from any Contracts concluded earlier with the Government of India.

6. **Access to Books of Accounts.** In case it is found to the satisfaction of the Buyer that the Bidder 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 Bidder, on a specific request of the Buyer, shall provide necessary information/ inspection of the relevant financial documents/information.

7. **Non-Disclosure of Contract Documents.** Except with the written consent of the Buyer/ Bidder, other party shall not disclose the Contract or any provision, specification, plan, design, pattern, sample or information thereof to any third party. The vendor will certify that all military information and data available to him as a part of the project will remain exclusive property of buyer and will not be disclosed to any person not authorised by him. Failure to comply with this closure will make the vendor liable to action as per law.

8. **Liquidated Damages (LD).** In the event of the Successful Bidders failing 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 Successful Bidder as agreed, liquidated damages at the rate 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 Liquidated Damages being not exceeding 10% of the total value of goods/service delayed beyond the date of delivery/completion of supplies/service as indicated in the Contract.

9. **Termination of Contract.** The Buyer 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 04 weeks after the scheduled date of delivery.
- (b) The Bidder is declared bankrupt or becomes insolvent.
- (c) The delivery of material is delayed due to causes of Force Majeure by more than **06 weeks** provided Force Majeure clause is included in Contract.
- (d) The Buyer has noticed that the Bidder has used undue Influence in getting this Contract and paid any commission to any individual/ company etc for the same.
- (e) As per decision of the Arbitration Tribunal.

10. **Notice.** 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 FAX or registered pre-paid mail/airmail, addressed to the last known address of the party to whom it is sent.

11. **Transfer and Sub-Letting.** The Bidder 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.

12. **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 payments for any other industrial property rights. The Bidder 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 Bidder 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 of infringement of any or all the rights mentioned above.

13. **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.

14. **Taxes and Duties.**

(a) **General.**

(i) If Bidder desires to ask for excise duty or GST/ Sales Tax / VAT extra, the same must be specifically stated. In the absence of any such stipulation, no claim for the same will be entertained.

(ii) If reimbursement of any Duty/Tax is intended as extra over the specified, the Bidder must specifically say so. In the absence of any such stipulation it will be presumed that the duty/tax quoted are firm and final and no claim on account of such duty/tax will be entertained after the opening of tenders.

(iii) If a Bidder is exempted from payment of any duty/tax upto any value of supplies from them, he should clearly state that no such duty/tax will be charged by him up to the limit of exemption which he may have. If any concession is available in regard to rate/quantum of any Duty/tax, it should be brought out clearly. Stipulations like, the said duty/tax was presently not applicable but the same will be charged if it becomes leviable later on, will not be accepted unless in such cases it is clearly stated by a Bidder that such duty/tax will not be charged by him even if the same becomes applicable later on. In respect of the Bidders, who fail to comply with this requirement, their quoted prices shall be loaded with the quantum of such duty/tax which is normally applicable on the item in question for the purpose of comparing their prices with other Bidders.

(iv) 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 Bidder. All such adjustments shall include all reliefs, exemptions, rebates, concession etc. if any obtained by the Bidder.

(b) **Customs Duty (if applicable).**

(i) For imported stores offered against forward delivery, the Bidder shall quote prices thereof exclusive of customs duty. The Bidder shall specify separately the C.I.F. prices and total amount of customs duty payable. They will also indicate correctly the rate of customs duty applicable along with Indian Customs Tariff Number. Customs duty as actually paid will be reimbursed on production of necessary documents i.e. Triplicate copy of the bill of entry, copy of bill of lading and a copy of foreign principal's invoice. However, if the Bidder imports the stores

in question against his own commercial quota Import Licences, he will also be required to submit in addition the triplicate copy of bills of entry etc. A certificate from his Internal Auditor on the bill itself, to the effect that the following items/quantity in the bill of entry related to the stores imported against Defence Buyer Contract number..... dated.....

(ii) Subsequent to the reimbursement of customs duty, the Bidder will submit to the concerned Payment Authority a certificate to the effect that he has not obtained any refund of customs duty subsequent to the payment of duty to the Customs authority by him. In addition, he shall also submit to the Paying Authority concerned a certificate immediately after a period of three months from the date of payment of the duty to customs authorities to the effect that he has not applied for refund of the customs duty subsequent to the payment of duty to the customs authorities by him.

(iii) In case the Bidder obtains any refund of customs duty, subsequently to the payment of the same by him to the customs authorities and reimbursement of the customs duty to him by the Payment Authority, he should forthwith furnish the details of the refund obtained and afford full credit of the same to the Buyer.

(c) **Excise Duty.**

(i) Where the excise duty is payable on advalorem basis, the Bidder should submit along with the tender, the relevant form and the Manufacturer's price list showing the actual assessable value of the stores as approved by the Excise authorities.

(ii) Bidders should note that in case any refund of excise duty is granted to them by Excise authorities in respect of Stores supplied under the Contract, they will pass on the credit to the Buyer immediately along with a certificate that the credit so passed on relates to the Excise Duty, originally paid for the stores supplied under the Contract. In case of their failure to do so, within 10 days of the issue of the excise duty refund orders to them by the Excise Authorities the Buyer would be empowered to deduct a sum equivalent to the amount refunded by the Excise Authorities without any further reference to them from any of their outstanding bills against the Contract or any other pending Government Contract and that no disputes on this account would be raised by them.

(iii) The Bidder is also required to furnish to the Paying Authority the following certificates:-

(aa) Certificate with each bill to the effect that no refund has been obtained in respect of the reimbursement of excise duty made to the Bidder during three months immediately preceding the date of the claim covered by the relevant bill.

(ab) Certificate as to whether refunds have been obtained or applied for by them or not in the preceding financial year after the annual Audit of their accounts also indicating details of such refunds/applications, if any.

(ac) A certificate along with the final payment bills of the Bidder to the effect whether or not they have any pending appeal/protest for refund or partial refund of excise duties already reimbursed to the Bidder by the Government pending with the Excise authorities and if so, the nature, the amount involved, and the position of such appeals.

(ad) An undertaking to the effect that in case it is detected by the Government that any refund from Excise Authority was obtained by the Bidder after obtaining reimbursement from the Paying Authority, and if the same is not immediately refunded by the Bidder to the Paying Authority giving details and particulars of the transactions, Paying Authority will have full authority to recover such amounts from the Bidder's outstanding bills against that particular Contract or any other pending Government Contracts and that no dispute on this account would be raised by the Bidder.

(iv) Unless otherwise specifically agreed to in terms of the Contract, the Buyer shall not be liable for any claim on account of fresh imposition and/or increase of Excise Duty on raw materials and/or components used directly in the manufacture of the contracted stores taking place during the pendency of the Contract.

(d) **GST/ Sales Tax / VAT.**

(i) If it is desired by the Bidder to ask for GST/ Sales tax / VAT 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 sales tax and no liability of sales tax will be devolving upon the Buyer.

(ii) On the Bids quoting sales tax extra, the rate and the nature of Sales Tax applicable at the time of supply should be shown separately. Sales tax will be paid to the Bidder at the rate at which it is liable to be assessed or has actually been assessed provided the transaction of sale is legally liable to sales tax and the same is payable as per the terms of the Contract.

(e) **Octroi Duty & Local Taxes.**

(i) Normally, materials to be supplied to Government Departments against Government Contracts are exempted from levy of town duty, Octroi Duty, Terminal Tax and other levies of local bodies. The local Town/Municipal Body regulations at times, however, provide for such Exemption only on production of such exemption certificate from any authorised officer. Bidder should ensure that stores ordered against Contracts placed by this office are exempted from levy of Town Duty/Octroi Duty, Terminal Tax or other local taxes and duties. Wherever required, they should obtain the exemption certificate from the Buyer, to avoid payment of such local taxes or duties.

(ii) In case where the Municipality or other local body insists upon payment of these duties or taxes the same should be paid by the Bidder to avoid delay in supplies and possible demurrage charges. The receipt obtained for such payment should be forwarded to the Buyer without delay together with a copy of the relevant act or bylaws/ notifications of the Municipality of the local body concerned to enable him to take up the question of refund with the concerned bodies if admissible under the said acts or rules.

PART – IV**SPECIAL CONDITIONS OF TENDER**

The Bidder is required to give confirmation of their acceptance of Special Conditions of the Tender mentioned below which will automatically be considered as part of the Contract concluded with the successful Bidder (i.e. Bidder in the Contract) as selected by the Buyer. Failure to do so may result in rejection of Bid submitted by the Bidder.

1. **Tolerance Clause.** To take care of any change in the requirement during the period starting from issue of Tender till placement of the Contract, Buyer reserves the right to **20% plus/minus** increase or decrease the qualitative Requirement of the required goods upto that limit without any change in the terms & conditions and prices quoted by the Bidder. While awarding the Contract, the quantity ordered can be increased or decreased by the Buyer within this tolerance limit.
2. **Payment Terms.** It will be mandatory for the Bidders to indicate their bank account numbers and other relevant e-payment details so that payments could be made through ECS/NEFT mechanism instead of payment through cheques, wherever feasible. Payments will be made through APS Nagrota Accounts, after acceptance and testing of all stores. The payment will be made as per following terms on production of stipulated documents:-
 - (a) 50% cost of the project shall be paid to the Bidder after complying with following conditions:-
 - (i) Delivery and Installation of complete stores as per Contract.
 - (ii) Inspection and acceptance of stores by a Board of Officers and Preparation of satisfactory installation and acceptance report to be jointly signed by the Buyer and the Bidder.
 - (iii) Preparation of Certified Receipt Voucher (CRV).
 - (b) Balance 50% payment of the project shall be released to the Bidder after complying with following conditions:-
 - (i) Satisfactory performance of the systems/items for a period of one week from the date of acceptance report has been signed.
 - (ii) Submission of Satisfactory Performance Certificate by the Buyer.
3. **Advance Payment.** No advance payment will be made.
4. **System Maintenance.** Seller will provide the following: -
 - (a) During the period of warranty the vendor will ensure that the system continues to perform in exactly the same manner as at the time of acceptance.
 - (b) **Software Maintenance.** Bidder (Seller) will be responsible for providing updates/upgrades which come free of cost from the Principles. Bidder (Seller) would provide complete assistance in maintaining the associated software during the warranty period. Bidder will guarantee all free Software Updates from OEM, to the user free of cost.
 - (c) **Hardware Maintenance.** Hardware supplied would be repaired on site. The user would approve any equipment being moved as at the time of acceptance.

(d) Arrangement of Warranty. Onsite warranty to be provided by the seller. Any transportation cost for repair/ replacement of supplied items is to be borne by the seller.

5. **Payment Authority.** The bills of the complete items should be prepared in favour of Army Public School, Nagrota, duly revenue stamp affixed in triplicate. The payment of bills will be made on receipt/ completion of all stipulated documents indicated below:-

- (a) Ink signed copy of commercial invoice/Bidder's bill.
- (b) CRVs in duplicate.
- (c) Inspection note.
- (d) Claim for statutory and other levies to be supported with requisite documents / proof of payment such as Excise duty challan, Custom duty clearance certificate, Octori receipt, proof of payment for EPF/ESIC contribution with nominal roll beneficiaries, etc as applicable.
- (e) Exemption certificate for Excise duty/Customs duty, if applicable.
- (f) Guarantee/ Warranty certificate.
- (g) Details of electronic payment viz account holder's name, Bank name, Branch name and address, Account type, Account number, IFSC code (if these details are not incorporated in Contract). Format given at **Appendix 'E'**.
- (h) Buyer Acceptance certificate.

6. **Fall Clause.** The following Fall clause will form part of the Contract placed on successful Bidder:-

- (a) The price charged for the stores supplied under the Contract by the Bidder shall in no event exceed the lowest prices at which the Bidder sells the stores or offer to sell stores of identical description to any persons/Organisation including the purchaser or any department of the Central government or any Department of state government or any statutory undertaking the central or state government as the case may be during the period till performance of all Contracts placed during the currency of the rate Contract is completed.
- (b) If at any time, during the said period the Bidder reduces the sale price, sells or offer to sell such stores to any person/organisation including the Buyer or any Dep't, of Central Govt or any Department of the State Government or any Statutory undertaking of the Central or state Government as the case may be at a price lower than the price chargeable under the Contract, the shall forthwith notify such reduction or sale or offer of sale to the buyer and the price payable under the Contract for the stores of such reduction of sale or offer of the sale shall stand correspondingly reduced. The above stipulation will, however, not apply to:-
 - (i) Exports by the Bidder.
 - (ii) Sale of goods as original equipment at price lower than lower than the prices charged for normal replacement.
 - (iii) Sale of goods such as drugs which have expiry dates.
 - (iv) Sale of goods at lower price on or after the date of completion of sale/placement of the order of goods by the authority concerned under the existing or previous Rate Contracts as also under any previous Contracts entered into with the Central or State Govt. Depts, including their undertakings excluding joint sector companies and/or private parties and bodies.

(c) The Bidder shall furnish the following certificate to the Paying Authority along with each bill for payment for supplies made against the Rate Contract – “We certify that there has been no reduction in sale price of the stores of description identical to the stores supplied to the Government under the Contract herein and such stores have not been offered/sold by me/us to any person/organisation including the purchaser or any department of Central Government or any Department of a state Government or any Statutory Undertaking of the Central or state Government as the case may be up to the date of bill/the date of completion of supplies against all Contracts.

7. **Risk & Expense Clause.**

(a) Should the stores or any instalment thereof not be delivered within the time or times specified in the Contract documents, or if defective delivery is made in respect of the stores or any instalment thereof, the Buyer shall after granting the Bidder 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.

(b) Should the stores or any instalment thereof not perform in accordance with the specifications /parameters provided by the BIDDER 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.

(c) 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 BIDDER 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 :-

(i) Such default.

(ii) In the event of the Contract being wholly determined the balance of the stores remaining to be delivered there under.

(d) 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 BIDDER.

8. **Force Major Clause.**

(a) 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, Earth Quake 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 circumstances and their consequences.

(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 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.

(d) Certificate of a Chamber of Commerce (Commerce and Industry) or other competent authority or organization 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 6 (six) months, either party hereto reserves the right to terminate the Contract totally or partially upon giving prior written notice of 30 (thirty) days to the other party of the intention to terminate without any liability other than reimbursement on the terms provided in the agreement for the goods received.

9. **Specification.** The following Specification clause will form part of the Contract placed on successful Bidder. The Bidder guarantees to meet the specifications as per Part-II of Tender 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 Bidder before supply to the Buyer. The Bidder, in consultation with the Buyer, may carry out technical upgradation / alterations in the design, drawings and specifications due to change in manufacturing procedures, indigenisation 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 alongwith necessary tools as a result of upgradation / alterations will be provided to the Buyer free of cost within (30) days of affecting such upgradation / alterations.

10. **Earliest Acceptable Year of Manufacture.** The date of manufacture should not be more than six months older from the date of Contract.

11. **Buyer Furnished Equipment.** No equipment will be provided by the Buyer at his expense to the Bidder.

12. **Packing and Marking.** The following Packing and Marking clause will form part of the Contract placed on successful Bidder :-

(a) The Bidder shall provide packing and preservation of the equipment and spares/goods contracted so as to ensure their safety against damage in the conditions of land, sea and air transportation, transshipment, storage and weather hazards during transportation, subject to proper cargo handling. The Bidder shall ensure that the stores are packed in containers, which are made sufficiently strong, and with seasoned wood. The packing cases should have hooks for lifting by crane/fork lift truck if required. Tags with proper marking shall be fastened to the special equipment, which cannot be packed.

(b) The packing of the equipment and spares/goods shall conform to the requirements of specifications and standards in force in the territory of the Bidder's country.

13. **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 Bidder's country or specifications enumerated as per Tender and shall also include therein modification to the stores suggested by the Buyer. Such modifications will be mutually agreed to. The Bidder 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 Bidder in the past if any. The Bidder shall supply an interchange ability certificate along with the changed part numbers wherein it should be mentioned that item would provide as much life as the original item.

14. **Quality Assurance.** Bidder would provide the Standard Acceptance Test Procedure (ATP) within ____ **week** of the date of Contract. Buyer reserves the right to modify the ATP. Bidder would be required to provide all test facilities at Buyer premises for acceptance and inspection by Buyer. The details in this regard will be coordinated during the negotiation of the Contract. The item should be of the latest manufacture, conforming to the current production standard and having 100% defined life at the time of delivery.

15. **Inspection Authority.** The Inspection will be carried out by duly constituted Board of Officers at Buyer premises. The mode of Inspection will be Buyer Inspection following which User Acceptance Certificate shall be issued.

16. **Franking Clause.** The following Franking clause will form part of the Contract placed on successful Bidder :-

(a) **Franking Clause in the case of Acceptance of Goods** “The fact that the goods have been inspected after the delivery period and passed by the Inspecting Officer will not have the effect of keeping the Contract alive. The goods are being passed without prejudice to the rights of the Buyer under the terms and conditions of the Contract”.

(b) **Franking Clause in the case of Rejection of Goods** “The fact that the goods have been inspected after the delivery period and rejected by the Inspecting Officer will not bind the Buyer in any manner. The goods are being rejected without prejudice to the rights of the Buyer under the terms and conditions of the Contract.”

17. **Claims.** The following Claims clause will form part of the Contract placed on successful Bidder:-

(a) The claims may be presented either: -

(i) On quantity of the stores, where the quantity does not correspond to the quantity shown in the Packing List/Insufficiency in packing.

(ii) On quality of the stores, where quality does not correspond to the quality mentioned in the Contract.

(b) The quantity claims for deficiency of quantity shall be presented within 15 days of completion of JRI and acceptance of goods.

(c) The Bidder shall collect the defective or rejected goods from the location nominated by the Buyer and deliver the repaired or replaced goods at the same location under Bidder's arrangement.

(d) The quality claims will be raised solely by the Buyer and without any certification/ countersignature by the Bidder's representative stationed in India.

18. **Warranty.** The following Warranty will form part of the Contract placed on successful Bidder:-

(a) The Bidder warrants that the goods supplied under the Contract conform to technical specifications prescribed and shall perform according to the said technical specifications.

(b) The Bidder warrants for a period of 12 months from the date of acceptance of stores by Joint Receipt Inspection or date of installation and commissioning, whichever is later, that the goods/stores supplied under the Contract and each component used in the manufacture thereof shall be free from all types of defects/failures.

(c) If within the period of warranty, the goods are reported by the Buyer to have failed to perform as per the specifications, the Bidder shall either replace or rectify the same free of charge, within a maximum period of 21 days of notification of such defect received by the Bidder, provided that the goods are used and maintained by the Buyer as per instructions contained in the Operating Manual. Warranty of the equipment would be extended by such duration of downtime. Record of the down time would be maintained by the Buyer in the logbook. Spares required for warranty repairs shall be provided free of cost by the Bidder. The Bidder also undertakes to diagnose, test, adjust, calibrate and repair/replace the goods/equipment arising due to accidents by neglect or misuse by the operator or damage due to transportation of the goods during the warranty period, at the cost mutually agreed to between the Buyer and the Bidder.

(d) The Bidder also warrants that necessary service and repair back up during the warranty period of the equipment shall be provided by the Bidder and he will ensure that the downtime is within 5% of the warranty period.

(e) The Bidder shall associate technical personnel of the Maintenance agency and Quality Assurance Agency of the Buyer during warranty repair and shall also provide the details of complete defects, reasons and remedial actions for defects.

(f) If a particular equipment/goods fails frequently and/or, the cumulative down time exceeds 5% of the warranty period, the complete equipment shall be replaced free of cost by the Bidder within a stipulated period of 15 days of receipt of the notification from the Buyer. Warranty of the replaced equipment would start from the date of acceptance after Joint Receipt Inspection by the Buyer/date of installation and commissioning.

(g) In case the complete delivery of Engineering Support Package is delayed beyond the period stipulated in this Contract, the Bidder undertakes that the warranty period for the goods/stores shall be extended to that extent.

(h) The Bidder will guarantee the shelf life of 05 years under the Indian tropical condition as given below :-

- | | | | |
|-------|---------------------|---|--------------|
| (i) | Minimum temperature | - | -05 degree C |
| (ii) | Maximum temperature | - | 50 Degree C |
| (iii) | Average Humidity | - | 95% |

19. **Product Support.** The following Product Support clause will form part of the Contract placed on successful Bidder :-

(a) The Bidder agrees to provide Product Support for the stores, assemblies/subassemblies, fitment items and consumables, subcontracted from other agencies/manufacturer by the Bidder for a maximum period of 8 years including 01 year of warranty period after the delivery of items.

(b) In the event of any obsolescence during the above mentioned period of product support in respect of any component or sub-system, mutual consultation between the Bidder and Buyer will be undertaken to arrive at an acceptable solution including additional cost, if any.

(c) Any improvement/modification/ up gradation being undertaken by the Bidder or their sub suppliers on the stores/equipment being purchased under the Contract will be communicated by the Bidder to the Buyer and, if required by the Buyer, these will be carried out by the Bidder at Buyer's cost.

(d) Any upgrades/benefit as given by the OEM will be passed on to the buyer unconditionally.

-End of Part-IV-

PART V**EVALUATION CRITERIA & PRICE BID ISSUES**

1. **Evaluation Criteria.** The bids shall be evaluated as under:-
 - (a) Only those Bids will be evaluated which are found to be fulfilling all the eligibility and qualifying requirements of the Tender, both technically and commercially.
 - (b) 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 Tender. The compliance of Technical Bids would be determined on the basis of the parameters specified in the Tender. The Price Bids of only those Bidders will be opened whose Technical Bids would clear the technical evaluation.
 - (c) **Determination of L-1 Bidder.** L-1 Bidder will be decided by excluding levies, taxes and duties levied by central/state/local governments such as GST, excise duty, VAT, Service tax, octroi/entry tax, etc on final product, as quoted by bidder. All leviable taxes and duties will be indicated separately, failing to do so may render the bid liable to be rejected. The Lowest Bid will be the lowest evaluated responsive Bidder. Conditional offers will be summarily rejected. Format for commercial bid is given at **Appendix 'C' Part I and II. All levies, taxes and duties (including those for which exemption certificates are issued) quoted by the Bidders will not be considered for evaluation of L1. Conditional offers will be summarily rejected.**
 - (d) 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.
 - (e) **Contract shall be placed on lowest evaluated responsive bid.**
 - (f) **Negotiations if any shall be carried out with L1 Bidder only.**
2. **Price Bid Format.** The commercial Bid Format is given at **Appendix 'C' Part I & II** and Bidders are required to fill this up correctly with full details and forward it in a sealed envelope along with the technical bid.
3. Please acknowledge receipt.

(Mrs Ruchi Bahl)
Principal
For Chairman
Army Public School Nagrota

Enclosures: (___ Sheets)

Appx 'A'

(Refers to Para 2(a) Part I of Tender)

TENDER CONDITIONS ACCEPTANCE LETTER

(To be given on Company letter Head)

Date:

To,

Sub: Acceptance of terms & conditions of tender

Tender Reference No: _____

Name of Tender/Work :-

Dear Sir,

1. I/We have obtained the tender document(s) for the above-mentioned Tender/work. Namely:

_____ as per your advertisement, given in the _____

2. I/We hereby certify that I/we have read entire terms and conditions of the tender documents from Page No. _____ to _____ (including all documents like annexure(s), schedule(s), etc.), which form part of the contract terms/conditions/clauses contained therein.

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

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

5. The Tech Bid and its enclosures are submitted in physical form as mentioned in para 7 of part I of Tender.

6. In case any provisions of this tender are found violated, your department/organisation shall be at liberty to reject this tender/bid and we shall not have any claim/right against department in satisfaction of this condition.

Yours Faithfully

(Signature of the Bidder, with Official seal)

Appendix 'C'

(Refers to Para 2 (b) Part-I of Tender)

COMMERCIAL BID

PART-I

| Ser | Qualitative Requirement | Compliance Yes/No | In case of non-compliance, deviation to specified in unambiguous terms |
|------------|--|---|---|
| (a) | Validity of bids | Commercial bid should be valid upto 180 days from the last date of submission of the bid. | |
| (b) | Delivery period | Within 30 days from effective date of Contract/ Supply Order | |
| (c) | Payment Terms |, Part IV of Tender. | |
| (d) | Warranty | One year from the date of ATP. | |
| (e) | Liquidated Damages (LD) and other commercial terms and conditions agreed to | As per part III of Tender | |

Company Seal

(Authorized signatory of company)

Date :

Name and Designation

Appendix 'C'(contd)

(Refers to Para 2 (b) Part-I of Tender)

COMMERCIAL BID

Part -II (To be used for L1 determination)

| Ser | Description of Item | Unit Rate (Basic price) | All Taxes | Total Cost with all Taxes |
|------------|---|------------------------------------|------------------|--------------------------------------|
| 1. | Quadcopter with day and night camera (only for example purpose) | - | - | - |

Company Seal

Date :

(Authorized signatory of company)

Name and Designation

COMMERCIAL BID

Part -II (Not in scope of L1 determination)

1. Is excise duty extra ?
2. If yes, mention the following :-
 - (a) Total value of item on which excise duty is leviable.
 - (b) Rate of excise duty (item-wise if different ED is applicable)
 - (c) Surcharge on excise duty, if applicable
 - (d) Total value of excise duty payable
3. Is excise duty exemption (EDE) required?
4. If yes, then mention and enclose the following :-
 - (a) Excise notification number under which EDE can be given.
5. Is GST extra?
6. If yes, then mention the following :-
 - (a) Total value on which GST is leviable
 - (b) Rate of GST
 - (c) Total value of GST leviable
7. Is service tax extra?
8. If yes, then mention the following :-
 - (a) Total value of services on which service tax is leviable
 - (b) Rate of service tax leviable
 - (c) Total value of service tax leviable
9. Is Custom Duty Exemption (CDE) required
10. If yes, then mention the following : -
 - (a) Custom notification number under which CDE can be given
 - (b) CIF value of stores to be imported
 - (c) Rate of customs duty payable
 - (d) Total amount of customs duty payable
11. Octroi / Entry taxes
12. Any other Taxes / Duties

Company Seal

(Authorized signatory of company)

Date :

Name and Designation

Appendix 'E'

(Refers to Para 5 (g) Part IV of Tender)

ELECTRONIC CLEARING SERVICE (CREDIT CLEARING)

MANDATE FORM

**INVESTOR/BUYER'S OPTION TO RECEIVE PAYMENTS
THROUGH CREDIT CLEARING MECHANISM**

(To be submitted in duplicate)

| Ser No | Particulars | To be filled by Bidder |
|---------------|--|-------------------------------|
| 1. | Bidder's Name | |
| 2. | Particulars of Bank Account | |
| | (a) Bank Name | |
| | (b) Branch Name | |
| | (i) Address | |
| | (ii) Telephone No | |
| | (c) 9-Digit code number of the Bank & Branch appearing of the MICR cheque issued by the Bank. | |
| | (d) Account type (S.B. Account/Current Account or Cash Credit) with Code 10/11/13 | |
| | (e) Ledger No/Ledger Folio No | |
| | (f) Account Number (As appearing on the cheque book) | |
| | (In lieu of the bank certificate to be obtained as under. Please attach a blank cancelled cheque, or photocopy of a cheque, or front page of your savings bank passbook issued by your bank for verification of the above particulars) | |
| 3. | Date of Effect | |

I, hereby declare that the particulars given above are correct and complete. If the transaction is delayed or not effected at all for reasons of incomplete or incorrect information. I would not hold the user institution responsible.

I have read the option invitation letter and agree to discharge the responsibility expected of me as participant under the scheme.

Dated :

(Signature of the Bidder)

Certified that the particulars are furnished above are correct as per our records.

Bank's Stamp

**(Signature of the authorized/Official)
From the Bank**

Dated :

Appendix 'C'

(Ref Para 2 and 3, Part II of Tender)

TECHNICAL BID

PART I: TECHNICAL BID COMPLIANCE STATEMENT

| Ser | Qualitative Requirement | Compliance Yes/No | In case of non-compliance, deviation to specified in unambiguous terms |
|------------|---|------------------------------|---|
| 1. | (a) Whether OEM | | |
| | (b) If No, whether Authorised dealer/ reseller | | |
| | (c) Supporting documents for (a)/(b) | | |
| 2. | Quality Product Certificate. In case supplier is not OEM, he certifies that products quality will be as it has been received from the OEM. | | |
| 3. | Software Updates. Bidder will provide all software updates, for a period of the three years warranty period free of cost. | | |
| 4. | All terms and conditions agreed to by the Bidder | | |
| 5. | Technical Specification as per Appx 'C' | | |

Company Seal

(Authorized signatory of company)

Date :

Name and Designation

Appx 'B'

(Refer Para 2 (a) Part-I of Tender)

TECHNICAL SPECIFICATION OF QUADCOPTER (DAY/NI)
FOR ARMY PUBLIC SCHOOL, NAGROTA

| Ser | Parameters | Specification/Remarks | Remarks |
|----------------------------------|--|-----------------------|---------|
| <u>Performance</u> | | | |
| 1. | Endurance | | |
| 2. | Range of Operation | | |
| 3. | Minimum launch altitude | | |
| 4. | Minimum operating altitude | | |
| 5. | Operating & Storage Temperature Range | | |
| 6. | Wind Resistance | | |
| <u>Op</u> | | | |
| 7. | Launch & Recovery | | |
| 8. | Maximum space required for launch and recovery (Manual Mode) | | |
| 9. | Flight Modes | | |
| 10. | Deployment Time (from fully packed state to Take-off) | | |
| 11. | Failsafe features | | |
| 12. | Packaging & Storage | | |
| <u>Payload</u> | | | |
| 13. | Cameras | | |
| 14. | Daylight Payload Resolution | | |
| 15. | Night Payload Resolution | | |
| 16. | Stabilization | | |
| <u>Communication Link</u> | | | |
| 17. | Communication link capability | | |
| 18. | Video Link | | |

| | | | |
|--|--|--|--|
| 19. | Minimum Transmitted Video Resolution at full operating range | | |
| <u>Ground Control Station (GCS)</u> | | | |
| 20. | Computing Hardware | | |
| 21. | GUI Display parameters | | |
| 22. | Maps | | |
| 23. | User Controls | | |

| Ser | Parameters | Specification/Remarks | Remarks |
|-----|------------|-----------------------|---------|
| | | | |

| Ser | Parameters | Specification/Remarks | Remarks |
|------------------------------------|-------------------|-----------------------|---------|
| <u>Communication Link</u> | | | |
| 24. | Joystick Control | | |
| 25. | Video | | |
| 26. | Pre-flight checks | | |
| 27. | Other features | | |
| <u>General Requirements</u> | | | |
| 28. | Miscellaneous | | |
| 29. | Battery type | | |
| 30. | Battery life | | |

| Ser | Parameters | Specification/Remarks | Remarks |
|-----|-------------------------------------|-----------------------|---------|
| | | | |
| 31. | Battery shelf life | | |
| 32. | No of additional battery Packs/Sets | | |
| 33. | Warranty | | |
| 34. | Product Service Life | | |
| 35. | Trg | | |

**TECHNICAL SPECIFICATION OF QUADCOPTER (DAY/IN)
FOR ARMY PUBLIC SCHOOL, NAGROTA**

| Ser | Parameters | Specs/Remarks |
|---------------------------|--|--|
| Performance | | |
| 1 | Endurance | Minimum 25 minutes with either payload @ AGL |
| 2 | Range of Operation | Minimum 2 km LOS (Line-of-sight) |
| 3 | Minimum launch altitude | 2000 meter AMSL (Above Mean Sea Level) or more |
| 4 | Minimum operating altitude | 200 meter AGL (Above Ground Level) or more |
| 5 | Operating & Storage Temperature Range | As per ambient temp in the area (OEM Certified) |
| 6 | Wide Resistance | Minimum 20 knots or more |
| Op | | |
| 7 | Launch & Recovery | Autonomous Vertical Take-Off & Landing (VTOL) |
| 8 | Maximum space required for launch and recovery (Manual Mode) | 5 meter x 5 meter open area |
| 9 | Flight Modes | (a) Fully autonomous from Take-off to Landing without using any R/C controller (b) Altitude Hold (c) Hover at a defended waypoint (d) Autonomous Waypoint Navigation (pre-defined as well as dynamically adjustable waypoints during flight) (e) Remotely piloted mode for video-based navigation (RPV Mode) |
| 10 | Deployment Time (from fully packed state to Take-off) | Maximum 10 minutes |
| 11 | Failsafe features | (a) Return to Home on Communication failure (b) Return to Home/Land on low battery (c) For navigation it should have GPS redundancy (d) High wide indication |
| 12 | Packaging & Storage | Backpack that houses all the sub-system which allows the complete system to be carried & operated in field by the crew. Ruggedized light weight hard cases for transportation & storage (One back pack and one storage box) |
| Payload | | |
| 13 | Cameras | Separate Day and Night Cameras |
| 14 | Daylight Payload Resolution | Minimum 1280 x 720 pixel HD 5 x Optical Zoom/ |
| 15 | Night Payload Resolution | Minimum Resolution 320 x 240 White Hot & Black Hot modes |
| 16 | Stabilization | 3 axis Gimbals stabilization of both payloads Electronic stabilization of video output at all levels in real-time |
| Communication Link | | |
| 17 | Communication capability | link (a) Transmit control command from GCS to UAS (b) Transmit telemetry data from UAS to GCS (c) Transmit day & Night video from UAS to GCS |
| 18 | Video Link | Encrypted with AES-128 or high |
| 19 | Minimum Transmittivity, RCS, Resolution range | |

| Ser | Parameters | Specs/Remarks |
|-------------------------------------|------------------------|--|
| Ground Control Station (GCS) | | |
| 20 | Computing Hardware | Laptop or Tablet with minimum operation duration of two hours of continuous use |
| 21 | GUI Display parameters | (a) Geographic Map along with UAS loc & trajectory, camera view, waypoints & flight plan. (b) Real-time video from the UAS with on-screen display of important parameters like - (i) UAV co-ordinates. (ii) Distance from Home. (iii) Battery Status. (iv) Flight time remaining. (v) Height AGL (Above Ground Level) (vi) Real-time video should be displayed at all times during the flight. (vii) Artificial Horizon indicating UAS altitude. |
| 22 | Maps | Capability of work with Google Maps and other available open-source maps. Application should have the capability to download maps automatically after specifying location (GPS co-ordinates). |
| 23 | User Controls | (a) One-Click Take Off/ Land/ Hover (b) Set altitude of the UAS. (c) Waypoint navigation. (d) Dynamic flight plan adjustment. (e) Point payload to ground co-ordinate function. (f) RPV/ autonomous with manual override which allows UAS to be flown in semi-autonomous mode by looking at the on-board video. |
| Communication Link | | |
| 24 | Joystick Control | (a) Full Camera Control. (b) Pan / Tilt (c) RPV mode (d) Altitude control. |
| 25 | Video | (a) Video should be recorded in commonly portable video format (AV/MP4 etc) on the GCS. (b) Video of the full flight should be recorded by default with option to turn recording off. (c) The UAS should be capable of streaming live HD video from GCS & the same should be stored on GCS. (d) Capable to take image snapshots with on-screen display parameters at any time during flight. |
| 26 | Pre-flight checks | Capable to perform pre-flight checks of the complete system before every flight for confirming the suitability of flight worthiness. |
| 27 | Others features | (a) Essential telemetry data logging. (b) The UAS should have FDR (Flight Data Recorder) (c) Port for data/video transfer to external storage device. (d) Flight path to be stored in kml or similar file formats. |

| Ser | Parameters | Specs / Remarks |
|-----------------------------|---------------------------------------|--|
| General Requirements | | |
| 28. | Miscellaneous | (a) One Field Repair Kit. (b) Two pair spare propeller. (c) Carry case (waterproof). (d) Battery charger capable of charging minimum two batteries at a time. |
| 29. | Obstacle avoidance | Minimum five obstacle avoidance sensors (forward & both sides mandatory). |
| 30. | Battery type | LiPo / Li-Ion. |
| 31. | Battery life | Minimum 300 charging cycles. |
| 32. | Battery shelf life | 24 months. |
| 33. | No of additional battery Packs / Sets | One set. |
| 34. | Warranty | Warranty of one years or more covering each and every component of the system. Free replacement of parts/ components included. Option for extended warranty or AMC to be provided. |
| 35. | Product Service Life | Minimum 5 years. |
| 36. | Trg | The trg of operator and maintainer at Jammu required to be provided by the vendor. |