

**AIRAWAT ARMY PRIMARY SCHOOL, PATIALA CANTT CONSTRUCTION
OF TEMPORARY INFRASTRUCTURE**

1. Quotations are invited to undertake the construction of temporary infrastructure for Airawat Army Primary School for construction of additional **seven classrooms (each of size 25 feet x 22 feet including walls), one store room (size 25 feet x 15 feet), two washrooms (each of size 25 feet x 15 feet), one drinking water point (size 25 feet x 10 feet), seven feet wide veranda and allied facilities to electric fittings, furniture, air conditions and smart boards at Airawat Army Primary School, Patiala Cantt.** The quotation should reach in a sealed envelope addressed to the Principal, Airawat Army Primary School, Patiala Cantonment upto 1200 hrs on **08 Aug 2025**.

2. Pre bid inspection can be carried out on site on any working day, between 0900h to 1300h **before 07 Aug 2025 (last date of submission of bids)**. Any clarification to be sought should be intimated minimum 03 days before last date of submission of bids.

Work to be Undertaken

3. **Works.** Prefabricated structure to include seven classrooms (each of size 25 feet x 22 feet including walls), one store room (size 25 feet x 15 feet), two washrooms (each of size 25 feet x 15 feet), one drinking water point (size 25 feet x 10 feet), seven feet wide veranda and allied facilities to include **electric fittings, furniture, air conditions and smart boards at Airawat Army Primary School, Patiala Cantt.**

4. **Scope of Work.** Fabrication of the structure including all civil, electrical and mechanical work. Prefabricated shelter to have seven classrooms, one store room, two washrooms, one drinking water point and covered veranda. The construction work would entail earth work, levelling of ground, plinth flooring, doors, windows and electrical fittings.

(a) **Design Data.**

- (i) **Length.** 210' (out to out measurement)
- (ii) **Width.** 32' (out to out measurement including 7' verandah)
- (iii) **Height.** 10' (clear headroom upto false roof)

(b) **Design Criteria.**

- (i) **Seismic Co-efficient.** As per Seismic Zone V.
- (ii) **Wind load.** Equivalent to wind speed of 55 mtrs/sec as per IS- 875.
- (iii) **Roof slope.** 1:3.
- (iv) **External temperature.** 0 degree C to (+) 45 degree C.
- (v) **Water absorption/Penetration.** Nil.
- (vi) **Fire resistance.** Fire retardant & should not emit toxic fumes.
- (vii) **Ease of construction.** Shelter should be modular in design.
- (viii) **Design load.** As per IS 875.
- (ix) 'U' value of external walls will not exceed 0.36 (+) 5% W/m²K.

(c) **Foundation Details.**

- (i) Excavation in trenches upto 450mm deep and 300mm in depth using coarse aggregate of 40mm crushed stone of 1:4:8 upto ground level.
- (ii) 9" brick work to be done upto height of 450mm using 1:6 of cement and fine aggregate

5. **Walls and Roof.**

(a) **Wall & Roof Panels.** Wall and roof panels shall be of pre painted Galvalume sheet of minimum thickness of 0.52 mm on both side of 68 mm thick (Expanded polystyrene). Thermocal of 18 kg/cum density which is sandwiched between two sheets. The Galvalume sheets will have protection of layer of poly resin with sand finish on outside and poly resin layer on inner side of the sheet. The panels are further fitted in GIU Channels of size 50 x 75 x 50 size of gauges thick GI angle which are fitted on floor with the help of self-threading screws.

(b) **Anchoring of Panels.** The wall roof panel shall be anchored with the help of GI angle sections on both side of the wall which are tightened with the help of self-threading screws and purlin will be provided at required interval which are made out of rectangular hollow section 80x40x16 gauges. The roof will have projection of 02 (two) feet all around. The edges of the roof will also be covered with GI shape U channel of size: 2"x3"x2".

(c) **Panel Sheets.** Only pre painted galvalume sheets will be used for making sandwich panel as it is hot dipped and thus has more life after texture paint over it.

(d) **Roof Top.** Topping of roof with precolour coated Galvalume profile sheets for long lasting finish will be used.

(e) **Windows.** Each classroom will have four aluminium windows with two track sliding of 3'x5' size with grill as per requirement at site and having two shutters fitted with 4mm thick float glass and sun shade protruding at least 2 ft & min 10 inch from edge of the window from the wall to give protection from rain. Factory manufactured aluminum windows sliding type two track with frame will be provided of size 1200 mm x 1200 mm as marked on drawing. Powder coated aluminum section weighting not less than 0.55 kg/m will be provided complete in all respect. The size of windows shall be from out to out of aluminum frame and the opening shall be kept accordingly. There shall be no 'gap' between sliding shutters and the shutters shall not shake during sliding. Rubber/Neoprene packing shall be provided with 5 mm thick glass, sliding track. The make of glass will be saint Gobain/Modi guard/Jindal.

(f) **Doors.** Each classroom will have two flush doors 32 mm thick ISI marked having clear opening of 7x3 ft with pressed steel chowkhats section 100x75mm (fitted with PCC 1:2:4) 1.20mm thick fitted to the panel the door, two aluminum handles 125mm size and two bolt 2Nos. with necessary hardware fittings in each room.

6. **Electrical fitting.**

(a) **Inside Classrooms.** Each classroom will have **two** heavy duty Exhaust fans of 450 mm diameter, **five** ceiling fans of 48" size of ISI mark (Bajaj, Crompton, or equivalent) and **four** roof LED lights of 600 mm x 600 mm. In addition **five** three pin socket points of 5/15 amp and **one** point of 15 amp shall be provided. The electric wiring will have **one** main switch of 32 amp outside the classroom. **Two** additional tube

lights with fittings each to be fixed above the white board having separate switch control. **One** LED tube light would be placed outside the classroom having separate switch control near the door of the classroom on the outer side of wall. The copper wiring and switching shall bear ISI mark and must be of a reputed make. The fitting must have

PVC batons.

(b) Connecting of electricity, water supply and sewage to the existing source will be the responsibility of contractor.

(c) **Wash Rooms.** Washrooms to have two heavy duty exhaust fans of 450 mm diameter with plastic body and frame. 4 x LED lights point and two 5/15 Amp sockets.

7. **Flooring.**

(a) **Verandah and Classrooms**

- (i) Provision and laying of flooring on plinth raised 450mm above road level with vitrified floor tiles of make Kajaria, Somany or Johnson with water absorption less than 0.08% and conforming to IS: 15622, of approved make laid on 20mm thick cement mortar 1:4 (1 cement: 4 coarse sand), including grouting the joints with white cement and matching pigments etc. Size of tile 600x600x10mm over 25mm thick PCC 1:2:4 over 75mm thick suffone 1:4:1 over well rammed earth.
- (ii) **Skirting.** Vitrified tiles of same thickness and flooring over 10mm thick cm 1:3.
- (iii) **Wash rooms.** Non-skid ceramic tiles 300x300x8mm of standard quality.
- (iv) **Skirting washrooms.** Ceramic tiles 300 x 450 x 8mm over 10mm thick cm 1:3.

8. **Finishing.** Finishing shall be done with texture paint on outer side and inner side. The door shall be painted with enamel paint approved ISI brand on outer side and inner side.

9. **False Ceiling.** Gypsum board with aluminum false ceiling of 600 mm x 600 mm grid tiles which are moisture and heat resistant. All to be white designer tiles.

10. **Teacher Platform.** Teacher platform in each class room would be of 6" above floor level of size 10ftx5 ft.

11. **Sanitary Fittings.**

(a) **Boys Wash Room** Boys washroom will have provision of **Five** EWC Seats and **Four** Urinal points with complete fittings, **Five** counter type (600mm wide) oval wash basin with RCC counter with granite top with complete fittings (Cera/ Parryware / Hindware or Equivalent brand). **One** elongated mirror covering all five wash basins would be placed CPVC fitting of 25/20/15 mm diameter will be used in washroom and water points.

(b) **Girls Wash Room** Girls washroom will have provision of **Five** EWC Seats with complete fittings, **Five** wash basins counter type (600mm wide) oval with RCC counter and Granite Top) with complete fittings (Cera/ Parryware/Hindware or Equivalent brand). **One** Elongated mirror covering all five wash basins. CPVC fitting of 25/20/15 mm will be used in washroom and water points.

12. **Plinth Protection.** 750mm wide plinth protection with 75mm thick PCC over 100mm thick hard core with bituminous joints will be provided around the building alongwith PCC drain.



13. **Earthing.** Earthing of machinery/equipment installed in classrooms and complete building using 32x6 mm galvanised MS strip and MS galvanised plate of size 600x600x6mm as earth resistance.

14. **Air Conditions.** Provision of two ton all weather air conditions of any reputed brand with minimum four star rating for all seven classrooms with stabilizers.

15. **Furniture.**

(a) **Teachers.** One sitting chair and one table for teacher.

(b) **Lockers.** Two lockers per classroom would be provided.

(c) **Students.** Furniture for 35 students per classroom would be provided for. The furniture would be in the form of integrated chair and table.

(d) Physical comfort, economy in material and labour and durability should be the main consideration in design of the furniture of the school. All furniture, fixtures and equipment should be scaled to the size of the pupils for whom they are intended. Great care and prudence should be exercised in provision of furniture for different classes. In particular, it would be ensured that all items of furniture, particularly desks, chairs and tables purchased are elegant and conform to the size and height of the age group of children for whom they are intended.

16. **Smart Interactive Flat Panel Boards.** Seven Interactive Flat Panel Boards of 86 Inches each with display ratio of 16:9 and minimum 20 touch points. D-LED display back light would be preferred with a minimum resolution of 3840x2160(4K), brightness of -450 Cdm2 and response time of maximum of 4 ms. The panel board should have inbuilt speakers of minimum 25 W. The panel should have the facility of operating on windows OS and IOS, screen recording, built in key board, wi-fi and should be compatible for video conferencing.

17. **Warranty.** Warranty of entire structure including structural stability to be min 05 years. The Polyurethane foam insulation material in the panel should have excellent fire extinguishing characteristics when tested in accordance with BS EN 13501-1:2007+A1:2009 with reaction to fire classification satisfying B-s1-d0 and providing fire resistance minimum of 15 minutes integrity (E) when tested in accordance with ASTM E119 and should have self-ignition performance above 343 degree Celsius when tested in accordance with ASTM D1929.2, necessary supporting test certification from NABL lab to be submitted during execution. Panel shall provide a nominal k-value of 0.018 W/mK when tested in accordance with ASTM C518 or IS12436 and IS 16203 supporting test certifications from NABL lab to be submitted during execution.

Terms and Conditions

18. **Projected Date of Completion (PDC).** The complete work shall be completed in not more than **90 days** from the date of award of contract. The contractor will submit the time plan prior to commencement of work. Extension in date for completion of project will not be entertained/accepted. Penalty **@ 0.50%** of the project cost shall be levied for delay of every single week.

19. **Minimum Average Annual Financial Turnover.** Minimum average annual financial turnover of the bidder during the last three years, ending on 31st March of the previous financial year, should be as indicated in the bid document. Documentary evidence in the

form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the bidder is less

than

3-years old, the average turnover in respect of completed financial years after the date of constitution shall be taken into account for the criteria.

20. **Bidders Financial Standing.** The bidder should not be under liquidation, court receivership or similar proceedings, should not be bankrupt. Bidder to attach an undertaking to this effect with bid, as per specimen attached.

21. **Experience.** The bidder should have undertaken similar projects. Documentary proof will be attached.

22. **Warranty.** The repair and painting work undertaken by contractor should have a warranty of min two years after the completion of project. Hence, **2%** payment of the total contract will be withheld with School Administration for defect liabilities for two years post completion of work. In case the contractor fails to execute the defects, the repair work will be executed by the school at risk and cost of vendor / contractor.

23. **Insurance.** The vendor / contractor shall get all his workers deployed at , Airawat Army Primary School, Patiala Cantonment covered under the requisite General Insurance Scheme under the prescribed Act or any additional insurance to cover liabilities under payment of Compensation Act during the execution of the repair work. Any accident to labour/worker while working at Airawat Army Primary School, Patiala Cantonment shall be the sole responsibility of the vendor / contractor and no compensation on any ground will be paid by Army Welfare Education Society (AWES) or Airawat Army Primary School, Patiala Cantonment. Hence, necessary security precautions will be taken by the contractor, complying to labour laws.

24. Work force of the vendor / contractor will remain under constant surveillance of the security staff of Airawat Army Primary School, Patiala Cantonment. Any breach of security will be reported to the local police/ administrative authorities and action taken as approved by the management of Airawat Army Primary School, Patiala Cantonment.

25. **Site Clearance.** The vendor / contractor will be responsible for clearance of rubble from the site simultaneously during the execution of repair work. Final payment will be released on receipt of certificate from Supervisor of Airawat Army Primary School, Patiala Cantonment that no waste / rubble is lying in the campus and that no damage has been caused to any other equipment, material or plants /nurseries of the college.

26. **Earnest Money.** The vendor / contractor will submit a Demand Draft of **₹2,00,000/- (Rupees Two Lakh Only)** towards refundable earnest money alongwith the quotation. The earnest money in respect of successful contractor will be retained and released only on completion of work.

27. **Monitoring of Repair Work.** A Project Management Group (PMG) will be constituted by the management of Airawat Army Primary School, Patiala Cantonment for supervision / monitoring of the repair work. The PMG will be empowered to issue warning or impose penalty, in case the work is not progressing / completed as per the scope, timelines and specifications included in the contract.

28. **Inspection.** Principal of Airawat Army Primary School, Patiala Cantonment reserves the right to send the stores for a second inspection by any authority nominated by him/ her or to inspect the stores himself/ herself and may reject them if not found conforming to the laid down specifications.

29. **Samples.** Samples of raw/building materials will be submitted to the PMG before commencement of the repair work.

30. **Testing Material.** Test certificate of material from a nationalised material testing Lab/Command Test Lab (Army) will be provided by the contractor.

31. **Payment.** Payment of bills will be made on submission of the following documents by the Seller to the Authority issuing order alongwith the bill :-

- (a) Ink-signed copy of contingent bill/ Seller's bill.
- (b) Ink Signed copy of Commercial invoice / Seller's bill.
- (c) CRVs in duplicate to be co-ordinated with user.
- (d) Claim for statutory and other levies to be supported with requisite documents/ proof of payment such as Excise duty challan, Customs duty clearance certificate, Octroi receipt, proof of payment for EPF/ESIC contribution with nominal roll of beneficiaries, etc as applicable.
- (e) Exemption certificate for Excise duty / Customs duty, if applicable.
- (f) Bank Guarantee for advance, if any.
- (g) Guarantee/ Warranty certificate.
- (h) Performance Bank guarantee/ Indemnity bond where applicable.
- (j) Details for electronic payment viz Account holder's name, Bank name Branch name and address, Account type, Account number, IFSC code MICR code.
- (k) Any other document / certificate that may be provided for in the Supply Order/ Contract.

32. **Schedule of Payment.** Payment will be released to firm on monthly basis as per the progress intimated by him and subsequently verified by the Project Management Group as per timeframe stated at para 5 above and following conditions.

- (a) Prior to any payment, a noting mentioning amount and terms for which payment is being made shall be floated by the Principal, AAPS through proper channel and approval shall be taken from the competent authority.
- (b) No payment shall be made for materials lying at site.
- (c) Payment schedule is as mentioned under:-

<u>Ser No</u>	<u>Work (%)</u>	<u>Payment</u>	<u>Remarks</u>
(i)	25%	25%	
(ii)	50%	25%	
(iii)	75%	25%	
(iv)	100%	23%	Defect liability*

* **2%** payment of the total contract will be withheld with the Principal for defect liabilities for two years post completion of work.

33. Bank Guarantee should have following points endorsed :-

- (d) We do hereby undertake to pay the amount due and payable under this

Guarantee without any demur, merely on a demand from beneficiary. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this Guarantee. However, our liability under this guarantee shall be restricted to **2% of Supply Order amount**.

- (e) We undertake to pay the beneficiary any money so demanded notwithstanding any dispute or disputes raised by Seller(s) any suit or proceeding pending before any Court or Tribunal relating thereto liability under this present being absolute and unequivocal.
 - (f) The payment so made by us under this Bond shall be a valid discharge of our liability for payment there under and the Seller(s) shall have no claim against us for making such payment.
 - (g) We further agree that the Guarantee here in contained shall remain in full force and effect during the period that would be taken for performance of the said Contract including Guarantee/ Warranty period and that it shall continue to be enforceable till all the dues of the beneficiary under or by virtue of the said Contract have been fully paid and its claims satisfied or discharged.
 - (h) Notwithstanding, anything contained herein above our liability under the Guarantee is restricted to **2% of Supply Order amount** and shall remain in force until five years after completion of the work.
 - (i) This Guarantee will not be discharged due to be change in the constitution of the Bank or the Seller(s).
 - (j) We lastly undertake not to revoke this Guarantee during its currency except with the previous consent of the beneficiary in writing.
34. The quotation must be filled with neat, legible and correct entries, indistinct figures should be avoided. The quotation should be signed and dated at appropriate place.
35. **Validity of Quotation.** The rate quoted by the firm will remain applicable for a minimum period of **90 days (Ninety days)** from the date on which the tenders are due to be submitted.
36. Interested firms will submit the **TECHNICAL AND FINANCIAL BIDS IN SEPARATELYPACKED ENVELOPS DULY ENDORSED**, to reach "Airawat Army Primary School, Patiala Cantonment-147001" by **07 Aug 2025 upto 1200 hrs**. The photocopies of following documents must be attached in Technical bid :-

- (j) GST Registration.
- (k) PAN.
- (l) Income Tax Returns and Balance Sheets for last three Financial Year duly certified by the Chartered Accountant alongwith intimation under Section 143 from IT Department and computation of total income for each assessment year.
- (m) Cancelled Cheque (Original).
- (n) Electronic Transfer of Funds (ETF) Mandate duly certified by Bank.
- (o) Undertaking of Financial Standing (as per specimen attached).
- (p) Experience Certificate of the firm of having undertaken similar project.
- (q) 'Non-Disclosure of the Contract' certificate (as per para 39 of this document)

37. **Opening of Bids.** The Technical and Financial Bids will be opened separately in the office of Airawat Army Primary School, Patiala Cantonment, before a duly constituted committee and opened in presence of the bidders, as per following schedule: -

- | | | |
|-----|--|---|
| (r) | <u>Opening of Technical Bids.</u> | 09 Aug 2025 at 1100 Hrs. |
| (s) | <u>Opening of Financial Bids.</u> | 12 Aug 2025 at 1100 Hrs (two days after opening of Technical Bids). |

38. Financial bids in respect of only those bidders will be opened, whose technical bid is accepted as correct, by the competent authority.

39. If the last date of depositing / opening of bids is declared as a Holiday then, the tenders will be deposited/opened on the next working day, other terms and conditions and the time schedule remaining unchanged.

40. **Risk & Expense Clause.** Should the store or any instalment thereof not be delivered within the given time or time specified in the contract documents, or if found defective, the buyer shall after granting the Seller seven (07) 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.

(a) Should the stores received at site not perform in accordance with the specifications/parameters during the check proof tests, the School 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.

(b) In case of a material breach that was not remedied within seven (07) days, the School shall, having given the right of first refusal to the vendor be at liberty to purchase, manufacture or procure from any other source.

41. **Quality.** The quality of stores being used for repairs according to the present contract shall correspond to the technical conditions and standards.

42. **Acceptance.** The items supplied will be finally accepted on the approval of the Principal Airawat Army Primary School, Patiala Cantonment or by Board of Officers.

43. **Cancellation.** In case of failure of execution of work by due date, Principal of Airawat Army Primary School, Patiala Cantonment reserves the right to cancel this work order.

44. **Important.** This document cannot be used for taking any loan from financial institutions.



45. **Insurance Charge.** No insurance charge will be paid by the department. Principal Airawat Army Primary School, Patiala Cantonment will accept no responsibility and no liability for the stores in transit or for the rejected stores lying inside consignee's premises for whatsoever reason.

46. **Jurisdiction.** The contract shall be governed by the laws of India for the time being in force. The Courts of Jalandhar only have jurisdiction to deal with and decide any legal issue or dispute arising out of this contract/terms and conditions.

47. **Settlement of Disputes.** Any dispute or difference arising out of or in connection with the Contract/Terms and Conditions shall be to the extent possible settled amicably between the parties. If amicable settlement cannot be reached, then all disputed issues shall be settled by arbitration.

48. **Arbitration.** In the event of any dispute or difference arising under this contract, the matter shall be referred to the Arbitrator to be nominated by the Patron, Airawat Army Primary School, Patiala Cantonment and whose decision will be final and binding on both the parties. The venue of arbitration will be PatialaCantt subjected to as the aforesaid Arbitration Act 1940 and the rules thereunder and any statutory modification thereof for the time being in force shall be deemed to apply to the Arbitration proceedings under this contract.

49. School Management reserves the right to reject all/any quotation(s) without assigning any reason. Decision of the management in this regard will be final.

50. **Effective Date of the Contract.** A contract shall be signed between the selected vendor and Airawat Army Primary School, Patiala Cantonment. 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 completion of obligations of the parties under the contract. Deliveries and supplies and performance of the services shall commence from the effective date of Contract.

51. **Non-disclosure of Contract Documents.** Except with written consent of the two parties of contract, no party shall disclose the contract or any provision, specification, plant, design pattern, sample or information thereof to any third party.

52. Non-Disclosure Certificate (On Bidder Letter Head) to be uploaded with bid.

(a) M/s _____ (L1 Bidders) hereby declare that they shall not disclose the contract or any provision, specification, plan, design, pattern, sample or information thereof to any third party during and after expiry of Contract.

(b) If defying the norms as per the Contract, a legal action may be taken against us as per the existing Rules.

53. **Liquidated Damages.** In the event of the bidder's failure to submit the Bonds, Guarantee and Documents, the Airawat Army Primary School, Patiala Cantonment may withhold any payment until the completion of the Contract. The School may also deduct from the seller as agreed, liquidated damages to the sum of 0.5% of the contract price of the delayed works mentioned above for every week of delay or part of week, subject to the maximum value of the liquidated damages being not higher than 10% of the value of delayed works.

54. **Termination of Contract.** AAPS shall have the right to terminate this contract in part or in full in any of the cases: -

(c) The vendor is declared bankrupt or becomes insolvent.

(d) As per decision of the Arbitration nominated by the Patron, Airawat Army

55. **Transfer of Sub-letting.** The selected bidder has no right to give, bargain, sell, assign or sublet or otherwise dispose off 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.

56. **Assign or Sublet Clause.**

(a) The selected bidder shall not assign the Contract, in whole or part, without obtaining the prior written consent of the School.

(b) The selected bidder shall not sub-contract the Contract, in whole or part, to any entity without obtaining the prior written consent of the School.

(c) The selected bidder shall, notwithstanding the consent and assignment/subcontract, remain jointly and severally liable and responsible to buyer together with the assignee/ sub-contractor, for and in respect of the due performance of the Contract and the Sellers obligations there under.

57. **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 School or otherwise in procuring the contract 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.

58. Any breach of the aforesaid undertaking by bidder or any one employed by him or acting on his behalf (whether with or without the knowledge of the School) or the commission of any offence by the Seller or anyone employed by him or acting on his behalf, as 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 School to cancel the contract and all or any other contract with the bidder and recover from the amount of any loss arising from such cancellation. Decision of the school 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 School or to any other person in a position to influence any office/employee of the School for showing any favour in relation to this or any other contract, shall render the bidder to such liability/penalty as the School may deem appropriate, including about not limited to termination of the contract, imposition of penal damages, forfeiture of the Bank Guarantee and refund of amounts paid by the School.

59. **Option Clause.** The contract will have an option clause wherein the School can exercise an option to procure an additional 50% of the original contracted quantity in accordance with the same terms and conditions of the present contract. This will be applicable with the same terms and conditions of the present contract. The Bidder is to confirm the acceptance of the same for inclusion in the contract. It will be entirely on discretion of the School to exercise this option or not.



THE BIDDER IS REQUIRED TO GIVE CONFIRMATION OF THEIR ACCEPTANCE OF TERMS AND CONDITIONS AS MENTIONED ABOVE 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/COLLEGE. FAILURE TO DO SO MAY RESULT IN REJECTION OF BID SUBMITTED BY THE BIDDER.

UNDERTAKING OF FINANCIAL STANDING

I,, Proprietor / Partner of M/s.

.....

do hereby declare that I / my firm is not under liquidation, court receivership or similar proceedings / bankrupt.

Date :

Signature with



TECHNICAL SPECIFICATIONS AND DETAILS OF THE STRUCTURE

<u>No</u>	<u>S</u>	<u>Nomenclature</u>	<u>Description of Work</u>
1.		Prefabricated structure to include seven classrooms (each of size 25 feet x 22 feet including walls), one store room (size 25 feet x 15 feet), two washrooms (each of size 25 feet x 15 feet), one drinking water point (size 25 feet x 10 feet), seven feet wide veranda and allied facilities to include mosquito proofing	<p><u>Scope of Work.</u> Fabrication of the structure including all civil, electrical and mechanical work. Prefabricated shelter to have seven classrooms, one store room, two washrooms, one drinking water point and covered veranda. The construction work would entail earth work, levelling of ground, plinth flooring, doors, windows and electrical fittings.</p> <p><u>Design Data.</u></p> <p>(a) <u>Length.</u> 210' (out to out measurement)</p> <p>(b) <u>Width.</u> 32' (out to out measurement including 7' verandah)</p> <p>(c) <u>Height.</u> 10' (clear headroom upto false roof)</p> <p><u>Design Criteria.</u></p> <p>(a) <u>Seismic Co-efficient.</u> As per Seismic Zone V.</p> <p>(b) <u>Wind load.</u> Equivalent to wind speed of 55 mtrs/sec as per IS- 875.</p> <p>(c) <u>Roof slope.</u> 1:3.</p> <p>(d) <u>External temperature.</u> 0 degree C to (+) 45 degree C.</p> <p>(e) <u>Water absorption/Penetration.</u> Nil.</p> <p>(f) <u>Fire resistance.</u> Fire retardant & should not emit toxic fumes.</p> <p>(g) <u>Ease of construction.</u> Shelter should be modular in design.</p> <p>(h) <u>Design load.</u> As per IS 875.</p> <p>(j) 'U' value of external walls will not exceed 0.36 (+) 5% W/m²K.</p> <p><u>Foundation Details.</u></p> <p>(a) Excavation in trenches upto 450mm deep and 300mm in depth using coarse aggregate of 40mm crushed stone of 1:4:8 upto ground level.</p> <p>(b) 9" brick work to be done upto height of 450mm using 1:6 of cement and fine aggregate.</p>



Appendix 'D' (Contd.....)

S No	Nomenclature	Description of Work
2.	Walls and Roof	<p>(a) <u>Wall & Roof Panels.</u> Wall and roof panels shall be of pre painted Galvalume sheet of minimum thickness of 0.52 mm on both side of 68 mm thick (Expanded polystyrene). Thermocal of 18 kg/cum density which is sandwiched between two sheets. The Galvalume sheets will have protection of layer of poly resin with sand finish on outside and poly resin layer on inner side of the sheet. The panels are further fitted in GIU Channels of size 50 x 75 x 50 size of gauges thick GI angle which are fitted on floor with the help of self-threading screws.</p> <p>(b) <u>Anchoring of Panels.</u> The wall roof panel shall be anchored with the help of GI angle sections on both side of the wall which are tightened with the help of self-threading screws and purlin will be provided at required interval which are made out of rectangular hollow section 80x40x16 gauges. The roof will have projection of 02 (two) feet all around. The edges of the roof will also be covered with GI shape U channel of size: 2"x3"x2".</p> <p>(c) <u>Panel Sheets.</u> Only pre painted galvalume sheets will be used for making sandwich panel as it is hot dipped and thus has more life after texture paint over it.</p> <p>(d) <u>Roof Top.</u> Topping of roof with precolour coated Galvalume profile sheets for long lasting finish will be used.</p> <p>(e) <u>Windows.</u> Each classroom will have four aluminium windows with two track sliding of 3'x5' size with grill as per requirement at site and having two shutters fitted with 4mm thick float glass and sun shade protruding at least 2 ft & min 10 inch from edge of the window from the wall to give protection from rain. Factory manufactured aluminum windows sliding type two track with frame will be provided of size 1200 mm x 1200 mm as marked on drawing. Powder coated aluminum section weighting not less than 0.55 kg/m will be provided complete in all respect. The size of windows shall be from out to out of aluminum frame and the opening shall be kept accordingly. There shall be no 'gap' between sliding shutters and the shutters shall not shake during sliding. Rubber/Neoprene packing shall be provided with 5 mm thick glass, sliding track. The make of glass will be saint Gobain/Modi guard/Jindal.</p> <p>(f) <u>Doors.</u> Each classroom will have two flush doors 32 mm thick ISI marked having clear opening of 7x3 ft with pressed steel chowkhats section 100x75mm (fitted with PCC 1:2:4) 1.20mm thick fitted to the panel the door, two aluminum handles 125mm size and two bolt 2Nos. with necessary hardware fittings in each room.</p>

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Appendix 'D' (Contd.....)

<u>S No</u>	<u>Nomenclature</u>	<u>Description of Work</u>
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3.	Electrical fitting	<p>(a) <u>Inside Classrooms.</u> Each classroom will have two heavy duty Exhaust fans of 450 mm diameter, five ceiling fans of 48" size of ISI mark (Bajaj, Crompton, or equivalent) and four roof LED lights of 600 mm x 600 mm. In addition five three pin socket points of 5/15 amp and one point of 15 amp shall be provided. The electric wiring will have one main switch of 32 amp outside the classroom. Two additional tube lights with fittings each to be fixed above the white board having separate switch control. One LED tube light would be placed outside the classroom having separate switch control near the door of the classroom on the outer side of wall. The copper wiring and switching shall bear ISI mark and must be of a reputed make. The fitting must have PVC batons.</p> <p>(b) Connecting of electricity, water supply and sewage to the existing source will be the responsibility of contractor.</p> <p>(c) <u>Wash Rooms.</u> Washrooms to have two heavy duty exhaust fans of 450mm diameter with plastic body and frame. 4 x LED lights point and two 5/15 Amp sockets.</p>
4.	Flooring	<p><u>Verandah and Classrooms</u></p> <p>(a) Provision and laying of flooring on plinth raised 450mm above road level with vitrified floor tiles of make Kajaria, Somany or Johnson with water absorption less than 0.08% and conforming to IS: 15622, of approved make laid on 20mm thick cement mortar 1:4 (1 cement: 4 coarse sand), including grouting the joints with white cement and matching pigments etc. Size of tile 600x600x10mm over 25mm thick PCC 1:2:4 over 75mm thick suffone 1:4:1 over well rammed earth.</p> <p>(b) <u>Skirting.</u> Vitrified tiles of same thickness and flooring over 10mm thick cm 1:3.</p> <p>(c) <u>Wash rooms.</u> Non-skid ceramic tiles 300x300x8mm of standard quality.</p> <p>(d) <u>Skirting washrooms.</u> Ceramic tiles 300 x 450 x 8mm over 10mm thick cm 1:3.</p>
5.	Finishing	<p>Finishing shall be done with texture paint on outer side and inner side. The door shall be painted with enamel paint approved ISI brand on outer side and inner side.</p>
6.	False Ceiling	<p>Gypsum board with aluminum false ceiling of 600 mm x 600 mm grid tiles which are moisture and heat resistant. All to be white designer tiles.</p>
7.	Teacher Platform	<p>Teacher platform in each class room would be of 6" above floor level of size 10ftx5 ft.</p>

<u>S No</u>	<u>Nomenclature</u>	<u>Description of Work</u>
8.	Sanitary Fittings	<p><u>Boys Wash Room</u></p> <p>Boys washroom will have provision of Five EWC Seats and Four Urinal points with complete fittings, Five counter type (600mm wide) oval wash basin with RCC counter with granite top with complete fittings (Cera/ Parryware/Hindware or Equivalent brand). One elongated mirror covering all five wash basins would be placed. CPVC fitting of 25/20/15 mm diameter will be used in washroom and water points.</p> <p><u>Girls Wash Room</u></p> <p>Girls washroom will have provision of Five EWC Seats with complete fittings, Five wash basins counter type (600mm wide) oval with RCC counter and Granite Top) with complete fittings (Cera/ Parryware/Hindware or Equivalent brand). One Elongated mirror covering all five wash basins. CPVC fitting of 25/20/15 mm will be used in washroom and water points.</p>
9.	Plinth Protection	750mm wide plinth protection with 75mm thick PCC over 100mm thick hard core with bituminous joints will be provided around the building alongwith PCC drain.
10.	Earthing	Earthing of machinery/equipment installed in classrooms and complete building using 32x6 mm galvanised MS strip and MS galvanised plate of size 600x600x6mm as earth resistance.
11.	Air Conditions	Provision of two ton all weather air conditions of any reputed brand with minimum four star rating for all seven classrooms with stabilizers.
12.	Furniture	<p>(a) <u>Teachers.</u> One sitting chair and one table for teacher.</p> <p>(b) <u>Lockers.</u> Two lockers per classroom would be provided.</p> <p>(c) <u>Students.</u> Furniture for 35 students per classroom would be provided for. The furniture would be in the form of integrated chair and table.</p> <p>(d) Physical comfort, economy in material and labour and durability should be the main consideration in design of the furniture of the school. All furniture, fixtures and equipment should be scaled to the size of the pupils for whom they are intended. Great care and prudence should be exercised in provision of furniture for different classes. In particular, it would be ensured that all items of furniture, particularly desks, chairs and tables purchased are elegant and conform to the size and height of the age group of children for whom they are intended.</p>
13.	Smart Interactive Flat Panel Boards	Seven Interactive Flat Panel Boards of 86 Inches each with display ratio of 16:9 and minimum 20 touch points. D-LED display back light would be preferred with a minimum resolution of 3840x2160(4K), brightness of -450 Cdm2 and response time of maximum of 4 ms. The panel board should have inbuilt speakers of minimum 25 W. The panel should have the facility of operating on windows OS and IOS, screen recording, built in key board, wi-fi and should be compatible for video conferencing.