

DAYALBAGH EDUCATIONAL INSTITUTE

(Deemed to be University)

DAYALBAGH, AGRA-282005

Notice Inviting Open Tender

Tender No DEI/Works/KVL/2022-23/TDR-06

Dated 07/11/2022

Proposal/Sealed Tender are invited on behalf of the DEI by the Registrar from Contractors who have executed similar works for CPWD, State PWDs, MES, Railways, PSUs etc.

for : **“Design, Supply, Construction, Installation of Prefab Structures in DEI Campus in Agra City (U.P)” Second call** on EPC (Engineering, Procurement, and Construction) Contract mode/ Turnkey Basis” for DEI.

1. Completion time six months (including monsoon period) from the date of award of contract.
2. Director, DEI shall be the “Accepting Authority” hereinafter referred to as such for the purpose of this contract.
3. Tender document may be downloaded.
4. The tender fee (with Mandatory information * **Annexure-I**) of Rs.236.00 (Rs. 200/- tender fee + Rs. 36/- GST (non-refundable) may be submitted along with the Techno-Commercial Bid in the form of Demand Draft/ Bankers Cheque in favour of “Registrar, Dayalbagh Educational Institute, Agra” payable at Agra.
5. Tenderers shall submit list of works which are in hand at the time of submitting their tender, giving name of work, name and particulars of location where the work is executed, cost of work and position of work in progress.
6. Balance sheet of last three years should be submitted along with the Techno Commercial Bid. Alternatively, a certificate from a CA certifying the turnover etc. may be submitted.
7. Solvency certificate for Rs.3.00 cores issued by a nationalized or a scheduled bank to be submitted along with the Techno Commercial bid.
8. Copies of other documents and drawings pertaining to the work are part of the bid document. However, bidders are free to contact the Superintendent of Works, DEI - Mobile No. 9997136118 for any clarification.
9. The tenderers are advised to inspect and survey the sites and its surroundings and satisfy themselves before submitting their tenders. They may make proposal and discuss their doubt in pre-bid meeting to be held as mentioned as point No. 13 before submitting their tender/bid.
10. Submission of a tender by a tenderer implies that he has read this notice and all other contract documents and has made himself aware of the scope and specification of the work to be done and of conditions and rates at which stores, tools and plant, etc, will be issued to him by the D.E.I. and local conditions and other factors bearing on the execution of works.
11. The tenderer should quote his rates in figures as well as in words. The amount for each item should be worked out and the requisite totals given. The total amount shall be written both in figures and in words.
12. A pre-bid conference shall be held in the office of the Registrar, DEI on 15.11.2022 at 12.00 hours to clear all doubts of the intending bidders, if any.

13. Tenders shall be dropped in the tender box at the window of room No. 1 of CAO and shall be opened at the time mentioned in the tender document.
14. The tender shall be accompanied by earnest money of Rs.4,00,000/- (Rupees four lakhs only) along with the Techno Commercial Bid. The earnest money may be paid in any one of the following forms :-
 - (a) Demand Draft of any Scheduled Bank drawn in favour of the D.E.I. payable at Agra.
 - (b) Fixed Deposit Receipt issued by Scheduled Banks endorsed/pledged in favour of the D.E.I.Tenders not accompanied by EMD shall be rejected.
15. On acceptance of tender, earnest money will be treated as part of security deposit.
16. The tenderer shall submit the tender whom satisfied each and every condition laid down in the tender documents, failing which, the tender is liable to be rejected.
17. Notice Inviting Tender shall form part of the contract document.
18. Applicable GST and any other taxes and duties in respect of this contract shall be payable by the contractor and reimbursed by DEI on production of valid receipt.
19. The tenders submitted shall remain valid for acceptance for a period of 45 days from the date set for opening of the tender. The tenderer shall not be entitled during the aforesaid period of validity to revoke or cancel his tender or vary the tender given or any item thereof.

Note: The Earnest Money will be liable to be forfeited if offer/bid is not honored or if contract is not signed with the Institute, after the award is made to the Tenderer

The demand drafts (validity 90 days) for earnest money deposit and tender fee must be enclosed in the envelope containing the Techno-Commercial bid addressed to :-

“The Registrar”
Dayalbagh Educational Institute
Dayalbagh, Agra – 282005,
Uttar Pradesh

1. Time and date for pre bid conference : 12:00 hours on 15.11.2022
2. Time and last date for submission of Techno – Commercial bid : 16:00 hours on 28.11.2022
3. Time and date of opening of Techno – Commercial Bid : 16:30 hours on 28.11.2022
4. Venue of opening of Techno – Commercial Bid : CAO, Dayalbagh Educational Institute In the presence of bidders who wish to be present at the time of opening of bid.
5. Date of opening of PRICE/FINANCIAL BIDS: Financial bid will be decided to be opened after Finalization of Technical evaluation and date will be intimated to the

eligible bidders.

Interested Contractors may put the tender document complete in all respect and other requisite documents in the tender box kept in the General Section, CAO, Dayalbagh Educational Institute, Dayalbagh, Agra-282005. The bidders are informed that they may come personally or send their representative to be present at the time of opening of bid. All bidders should follow the covid-19 guideline strictly. Please note that the tender box shall be opened at the time mentioned above irrespective of whether bidders themselves or any of their representatives are present or not. The tenders shall not be entertained after this deadline under any circumstances what so ever. For more information please visit institute website <http://www.dei.ac.in> or contact Sh. K V Loyal – 9997136118.

For and on behalf of the D.E.I.

Designation : REGISTRAR Date :

Email : registrar.dei@gmail.com

General Terms & Conditions

Note: Bidders must submit the following primary information/documents with the quotation. Bidders will have to indicate these particulars in their quote failing which the offer may be rejected. Please do produce the related documents whenever required by the Institute.

1. Trade License/Company Registration No.
2. Goods / Service Tax Regn. No.
3. Income Tax PAN No.
4. Firm's Bank A/c details
5. Bidders are requested to quote rate(s) per unit(s) only in the recognized Accounting units otherwise your quotation will not be accepted.
6. Cost of items shall include installation, support and troubleshooting.
7. Warranty and Support: for Hardware and Software should be explicitly mentioned. Performance Security is required to be submitted by the successful bidder between 5-10% of the value of the order or contract in the form of FDR/Bank Guarantee or authorize the Institute to deduct aforesaid amount from the bills as performance security.
8. Bidders should quote rates as per details/specifications mentioned in notice inviting Tender. The Institute reserves the right to place order for each job to single/separate vendor(s) if necessary.
9. Bidders should quote rates on FOR/Free Delivery at the sites specified in the Notice inviting Tender, inclusive of all charges else should mention estimated cost of packing, forwarding, insurance and freight by Rail/Road/Post etc. as the case may be.
10. Bidders must indicate if their rate is inclusive of Taxes and duties, if any.
11. In case opening date of Tender happens to be holiday, tender will be received and opened on the next working day at the same time and same place. Quotation received after the closing date will not be entertained and revision in the price will render the bid invalid. Quotation should indicate clearly the period of Validity, preferably not less than 45 days.
12. In case of an offer for items having multiple options, you should clearly indicate item-specific price(s). Please quote separate item-wise rate(s), when quotation has been asked for so. For every offer, packing and forwarding charges, Taxes etc. should be shown separately.
13. Bidders will have to submit Bills/Invoices to this office in triplicate duly pre-receipted and supported by the relevant documents like supply, commissioning, and completion report for audit and payment directly in your bank account through RTGS/NEFT. Generally, payments can be expected within one month or after satisfactory completion of jobs as per tender document.
14. No insurance charges are allowed unless otherwise specified and agreed to by us. In the absence of any specific instructions, it will be the responsibility of the supplier to ensure a consignment against transit risk at his own expense.
15. The Institute is not bound to accept the lowest rate or any other offer and the acceptance of the offer is entirely at the discretion of the Purchase Committee.
16. All purchases are subject to the approval of the Governing Body of the Institute.
17. The Institute reserves the right to select certain items in single or multiple units and reject the others or all as mentioned in the schedule and to revise or alter the specifications before acceptance of any tender and accept or reject any or all tenders, wholly or partly or close the tender without assigning any reason whatsoever.
18. The Bidder shall be required to submit the amount of Earnest Money Deposit (EMD) mentioned in the Notice Inviting Tender which is refundable and a non-refundable tender fee (with Mandatory information ***Annexure-I**) for an amount of Rs 236/- (Rupees two hundred only) by way of demand drafts. The demand drafts shall be drawn in favour of "Registrar, Dayalbagh Educational

Institute, Agra” payable at Agra. The demand drafts (validity 90 days) for earnest money deposit & tender fee must be enclosed in the envelope containing the bid.

a.) The firm(s) that are registered with the National Small Industries Corporation (NSIC) / or Small Scale Industries (SSI) are exempted from furnishing the EMD. Self-attested photocopy of the valid registration certificate must be enclosed with their bid.

b.) The demand drafts for EMD & tender fee (with Mandatory information Annexure-I) must be enclosed in the envelope. The bid is to be submitted in ‘Single Stage’ under ‘TWO Bid Pattern’ i.e. Techno-Commercial and Price Bid in Two separate sealed covers / envelopes. All envelopes to be put in one bigger envelope containing relevant document and super-scribed with tender number and due date of submission on it. Tender/bid found without the demand drafts of EMD and tender fee will be rejected. The Institute will not be liable to pay any interest on EMD. The EMD shall be forfeited, if the Bidder withdraws its bid during the period of validity of Tender.

19. Arbitration and Laws: In case of any dispute or difference arising out of or in connection with the tender conditions / order and Contract, the Institute and the Supplier will address the dispute / difference for a mutual resolution and failing which, the matter shall be referred for arbitration to a sole Arbitrator to be appointed by the Institute. The Arbitration shall be held in accordance with the provisions of the Arbitration and Conciliation Act, 1996 and the venue of arbitration shall be at Agra only. The resolution of the Arbitrator shall be final and binding on both the parties.
20. Jurisdiction: The courts at Agra alone will have the jurisdiction to try any matter, dispute or reference between parties arising out of this tender /contract. It is specifically agreed that no court outside and other than Agra court shall have jurisdiction in the matter.

Registrar, DEI

Annexure-I

✳ **Mandatory Information on a separate sheet**

Demand draft in favor of “Dayalbagh Educational Institute” for Rs. 236.00 Tender Fees Rs. 200/- and GST Rs.36) and the following details must be provided by the bidders:

- (a) Name of the Company :
- (b) Address :
- (c) Company/Firms contact details :
(Phone No., Mobile No. e-mail etc.
- (d) GST Number :
- (e) Name of the contact person with Phone no.:
- (f) Tender fees : **Rs.236/-**
- (g) Demand Draft No. :
- (h) Date of Demand Draft :
- (i) Name of the Bank :

DAYALBAGH EDUCATIONAL INSTITUTE

(Deemed to be University)

DAYALBAGH, AGRA 282005



REQUEST FOR PROPOSAL

Name of the Work: “Design, Supply, Construction, Installation of Prefab Structures in DEI Campus in Agra City (U.P) on EPC Contract mode”
Second Call

Issued on: 07.11.2022

RFP for “Design, Supply, Construction, Installation of Prefab Structures in DEI Campus in Agra City (U.P) on EPC Contract mode” Second Call

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Tender Details:

Name of Work	RFP for : “Design, Supply, Construction, Installation of Prefab Structures in DEI Campus in Agra City (U.P) on EPC Contract mode” Second Call
Name of Client	Dayalbagh Educational Institute, Dayalbagh
Date of Issue/ Publication	07 th November 2022
Pre-Bid meeting	15 th November 2022
Bid Document Cost	Rs. 200/- (Rupees Two Hundred only) + 18% GST= 236/-
Bid Security (Earnest Money)	Rs. 4,00,000/- (Rupees Four Lacs only) to be submitted along with the RFP.
Last Date of Bid Submission	28th November 2022 16:00 Hrs.
Time and Date of Bid Opening	28th November 2022 after 16:30 Hrs.
Validity of the Bid	Not less than 45 days from the date of opening of the Tender.
Undertaking the work	Within 09 months from the date of signing of agreement
Date of Survey & inspection of site	12 th November 2022

RFP for “Design, Supply, Construction, Installation of Prefab Structures in DEI Campus in Agra City (U.P) on EPC Contract mode” Second Call

DISCLAIMER

The information contained in this Request for Proposal document (“RFP document) or subsequently provided to Applicant(s), whether verbally or in documentary or in any other form, by or on behalf of Dayalbagh Education Institute or any of its employees or advisors, is provided to the Applicant(s) on the terms and conditions set out in this RFP document and all other terms and conditions subject to which such information is provided in writing.

This RFP document is intended to be and is hereby issued only to the prospective Applicants. The purpose of this RFP document is to provide the Applicant(s) with information for Design, Engineering and Construction for Prefab structures in DEI campus along with the foundation (Complete Work) This RFP document does not purport to contain all the information that each Applicant may require. This RFP document may not be appropriate for all persons, and it is not possible for the DEI, its employees or advisors to consider the investment objectives, financial situation and particular needs of each Applicant who reads or uses this RFP document. The assumptions, assessments, statements and information contained in the RFP document may not be complete, accurate, adequate or correct. Each Applicant should, therefore, conduct its own investigations and analysis and should check the accuracy, adequacy, correctness, reliability and completeness of the assumptions, assessments, statements and information contained in this RFP document and where necessary obtain independent advice from appropriate sources. The Dayalbagh Education Institute, its employees and advisors make no representation or warranty and shall incur no liability under any law, statute, rules or regulations as to the accuracy, adequacy, correctness, reliability or completeness of the RFP document.

Information provided in this RFP document to the Applicant(s) is on a wide range of matters, some of which may depend upon interpretation of law. The information given is not intended to be an exhaustive account of statutory requirements and should not be regarded as a complete or authoritative statement of law. The Dayalbagh Education Institute accepts no responsibility for the accuracy or otherwise for any interpretation or opinion on law expressed herein.

The Dayalbagh Education Institute, its employees and advisors make no representation or warranty and shall have no liability to any person, including any Applicant under any law, statute, rules or regulations or tort, principles of restitution or unjust enrichment or otherwise for any loss, damages, cost or expense which may arise from or be incurred or suffered on account of anything contained in this RFP document or otherwise, including the accuracy, adequacy, correctness, completeness or reliability of the RFP document and any assessment, assumption, statement or information contained therein or deemed to form part of this RFP document or arising in any way for participation.

The Dayalbagh Education Institute also accepts no liability of any nature whether resulting from negligence or otherwise howsoever caused arising from reliance of any Applicant upon the statements contained in this RFP document.

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The Dayalbagh Education Institute may in its absolute discretion, but without being under any obligation to do so, update, amend or supplement the information, assessment or assumptions contained in this RFP document before the last date of bid submission.

The issue of this RFP document does not imply that the Dayalbagh Education Institute is bound to select an Applicant or to appoint the selected Applicant or Concessionaire, as the case may be, for the Project and the Dayalbagh Education Institute reserves the right to reject all or any of the Applicants or Bids without assigning any reason whatsoever.

The Applicant shall bear all its costs associated with or relating to the preparation and submission of its Bid including but not limited to preparation, copying, postage, delivery fees, expenses associated with any demonstrations or presentations which may be required by the Dayalbagh Education Institute or any other costs incurred in connection with or relating to its Bid. All such costs and expenses will remain with the Applicant and the Dayalbagh Education Institute shall not be liable in any manner whatsoever for the same or for any other costs or other expenses incurred by an Applicant in preparation or submission of the Bid, regardless of the conduct or outcome of the Bidding Process.

For more details contact on behalf of the D.E.I.

Designation : REGISTRAR

Date :

Email : registrar.dei@gmail.com

Also, the tender document can be downloaded from the e-procurement site (CPP portal) (as per rule 159 ((I), III)) of GFR. Tender enquiry would also be uploaded on the institute website <http://www.dei.ac.in> (as per rule 161 & 162 of GFR).

Section 1: Letter of Invitation

1. The Dayalbagh Education Institute (hereinafter called “Employer”) is inviting proposals for Request for Proposal Document for Selection of Design Built Contractor: For Design, Engineering and Construction for Prefab structures in DEI campus along with the foundation
2. More details on the services are provided in the Terms of Reference in this RFP document and qualification requirement is at Instructions to Bidders.
3. BIDDER will be selected under “Quality and Cost Based System (QCBS)” and procedures described in this RFP.
4. The RFP includes the following documents:
 - Section 1 - Letter of Invitation
 - Section 2 - Instructions to Bidders (Part 1)
 - Section 3 - Instructions to Bidders (Part 2)
 - Section 4 - Terms of Reference
 - Section 5 - Technical Proposal
 - Section 6 - Financial Proposal
 - Section 7 - Forms of Contract

Designation : REGISTRAR, DEI
Date :

Section 2: Instructions to Bidders - Part I

2.1. Definitions

- a) “Addendum” means the clarification issued against the bidder’s query placed before the employer in writing before or during the pre-bid meeting. It may be release in form of addendum or corrigendum.
- b) “Employer” means the Dayalbagh Education Institute who have invited the bids for the services and/ or with which the selected Bidder signs the Contract for the Services and to which the selected bidder shall provide services as per the terms and conditions and TOR of the contract.
- c) “Bidder” means any entity or person or associations of person who have been requested to submit their proposals that may provide or provides the Services to the Employer under the Contract.
- d) “Contract” means the Contract signed by the Parties and all the attached documents listed in its Clause, that is the General Conditions (GC), the project Specific Conditions (SC), and the Appendices.
- e) “Project specific information” means such part of the Instructions to Bidders used to reflect specific project and assignment conditions.
- f) “Day” means calendar day.
- g) “Government” means the government of India /State/Local Government/Agra.
- h) “Instructions to Bidders” means the document which provides Bidders with all information needed to prepare their proposals.
- i) “LOI” means the Letter of Invitation being sent by the Employer to the bidders.
- j) “Personnel” means professionals and support staff provided by the Bidder or by any Sub-Bidder and assigned to perform the Services or any part thereof; “Foreign Personnel” means such professionals and support staff who at the time of being so provided had their domicile outside the Government’s country; “Domestic Personnel” means such professionals and support staff who at the time of being so provided had their domicile in India.
- k) “Proposal” means the Technical Proposal and the Financial Proposal.
- l) “RFP” means the Request for Proposal prepared by the Employer for the selection of Bidders, based on the SRFP.
- m) “SRFP” means the Standard Request for Proposals, which must be used by the Employer as a guide for the preparation of the RFP.
- n) “Assignment / job” means the work to be performed by the Bidder pursuant to the Contract.
- o) “Sub-Bidder” means any person or entity with whom the Bidder subcontracts any part of the Assignment/ job.
- p) “Terms of Reference” (TOR) means the document included in the RFP as Section 5 which explains the objectives, scope of work, activities, tasks to be performed, respective responsibilities of the Employer and the Bidder, and expected results and deliverables of the Assignment/ job.

RFP for “Design, Supply, Construction, Installation of Prefab Structures in DEI Campus in Agra City (U.P) on EPC Contract mode” Second Call

2.2. Introduction

- a) The Employer named in the Data Sheet will select Bidder (the Bidder) meeting basic eligibility criterion as mentioned in document and in accordance with the method of selection specified in the document.
- b) The name of the Assignment/ job has been mentioned in the Data Sheet. Detailed scope of the assignment/ job has been described in the document.
- c) The date, time and address for submission of the proposals has been given.
- d) The Bidders are invited to submit their Proposal, for Assignment/ job named. The Proposal will be the basis for contract negotiations and ultimately for a signed Contract with the selected Bidder.
- e) Bidders should familiarize themselves with Local conditions and take them into account in preparing their Proposals. To obtain first-hand information on the Assignment/job and Local conditions, Bidders are encouraged to submit the clarification online before or on the date of pre-bid meeting and are also advised to attend a pre-bid meeting. Attending the pre-proposal meeting is optional.
- f) The Employer will provide at no cost to the Bidders the inputs and facilities specified in the document, assist the bidders in obtaining licenses and permits needed to carry out the Assignment/ job, and make available relevant project data and reports.
- g) Bidders shall bear all costs associated with the preparation and submission of their proposals and contract negotiation. The Employer is not bound to accept any proposal, and reserves the right to annul the selection process at any time prior to Contract award, without thereby incurring any liability to the Bidders.

2.3. Eligibility of Association of bidders and sub-bidders

- a) Bidder shall not be permitted to form an association, join-venture or consortium of bidders for this proposal. If the bidder has formed an association of bidders, such an association of bidder is liable to be rejected by the Employer.

2.4. Clarification and Amendment of RFP Documents

- a) Bidders may request a clarification on any clause of the RFP documents till or on the date of pre- bid meeting. Any request for clarification must be sent by standard electronic means to the Employer’s address indicated.
- b) At any time before the submission of Proposals, the Employer may amend the RFP by issuing an addendum by standard electronic means.

2.5. Conflict of Interest

- a) Employer requires that Bidders provide professional, objective, and impartial advice and at all times hold the Employer’s interests paramount, strictly avoid conflicts with other Assignment/ jobs or their own corporate interests and act without any consideration for future work.
- b) Without limitation on the generality of the foregoing, Bidders, and any of their affiliates, shall be considered to have a conflict of interest and shall not be recruited, under any of the circumstances set forth below:

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- **Conflicting activities:** (i) Bidder that has been engaged by the Employer to provide goods, works or Assignment/ job other than Assignment/ job for a project, and any of its affiliates, shall be disqualified from providing Assignment/ job related to those goods, works or Assignment/ job. Conversely, Bidder hired to provide Assignment/ job for the preparation or implementation of a project, and any of its affiliates, shall be disqualified from subsequently providing goods or works or Assignment/ job other than Assignment/ job resulting from or directly related to the BIDDER’s Assignment/ job for such preparation or implementation. For the purpose of this paragraph, Assignment/ job other than consulting Assignment/ job are defined as those leading to a measurable physical output, for example surveys, exploratory drilling, aerial photography, and satellite imagery.
 - **Conflicting Assignment/ job;** (ii) A Bidder shall not be hired for any Assignment/ job that, by its nature, may be in conflict with another Assignment/ job of the Bidder to be executed for the same or for another Employer. For example, a Bidder assisting an Employer in the privatization of public assets shall not purchase, nor advice purchasers of, such assets. Similarly, a Bidder hired to prepare Terms of Reference for an Assignment/ job shall not be hired for the Assignment/ job in question.
 - **Conflicting relationships** (iii) A Bidder (including its Personnel) that has a business or family relationship with a member of the Employer’s staff who is directly or indirectly involved in any part of (i) the preparation of the Terms of Reference of the Assignment/ job, (ii) the selection process for such Assignment/ job, or (iii) supervision of the Contract, may not be awarded a Contract, unless the conflict stemming from this relationship has been resolved in a manner acceptable to the Employer throughout the selection process and the execution of the Contract.
- c) Bidders have an obligation to disclose any situation of actual or potential conflict that impacts their capacity to serve the best interest of their Employer, or that may reasonably be perceived as having this effect. Any such disclosure shall be made as per the Standard forms of technical proposal provided herewith. If the bidder fails to disclose said situations and if the Employer comes to know about any such situation at any time, it may lead to the disqualification of the Bidder during bidding process or the termination of its Contract during execution of assignment.

2.6. Unfair Advantage

- a) If a Bidder could derive a competitive advantage from having provided consulting Assignment/job related to the Assignment/job in question and which is not defined as conflict of interest, the Employer shall make available together with this RFP all information that would in that respect give such Bidder any competitive advantage over competing Bidders.

2.7. Proposal

Multiple Design proposals are permitted subject to approval from technical experts. Separate financial bid for each option. Option will be mentions in each bid envelope.

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2.8. Proposal Validity

Not less than 45 days from the date of opening of the Tender.

2.9. Preparation of Proposals

- a) The Proposal as well as all related correspondence exchanged by the Bidders and the Employer, shall be written in English language.
- b) In preparing their Proposal, Bidder is expected to examine in detail the documents comprising the RFP. Material deficiencies in providing the information requested may result in rejection of a Proposal.
- c) While preparing the Technical Proposal, Bidder must give particular attention to the following:
 - i. Depending on the nature of the Assignment/ job, Bidders are required to submit a Technical Proposal (TP) in forms provided in the RFP. Form Tech – I is a sample letter of technical proposal which is to be submitted along with the technical proposal.
 - ii. A brief description of the bidder’s, organization will provide details of experience of assignments which are similar to the proposed assignment/ job as per the terms of reference. For each Assignment/ job, the outline should indicate the duration of the Assignment/ job, contract amount, and Bidder’s involvement. Information should be provided only for those Assignment/ jobs for which the Bidder was legally contracted by the Employer as an Bidder. Bidders should be prepared to substantiate the claimed experience along with the proposal and must submit letter of award / copy of contract for all the assignments mentioned in the proposal.
 - iii. A description of the approach, methodology and work plan for performing the Assignment/ job covering the following subjects: technical approach and methodology, work plan, and organization schedule. Guidance on the content of this section of the Technical Proposals is provided. The work plan should be consistent with the Work Schedule which will show in the form of a bar chart the timing proposed for each activity.
- d) Financial Proposals: The Financial Proposal shall be prepared using the attached Standard Forms. It shall list all costs associated with the Assignment/ job. The financial proposal shall not include any conditions attached to it and any such conditional financial proposal shall be rejected summarily.

2.10. Taxes

- a) The Bidder shall fully familiarize themselves about the applicable taxes (such as: GST or income taxes, duties, fees, levies) on amounts payable by the Employer under the Contract. All such taxes must be included by the bidder in the financial proposal excluding GST.

2.11. Currency

- a) Bidders must express the price of their Assignment/ job in India Rupees.

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2.12. Earnest Money Deposit (EMD) and Bid Processing Fees

All bids must be accompanied by a Bid Security (EMD) of Rs. 4,00,000/- (Rupees Four Lacs only) in accordance with the provisions of this RFP in the form of FDR/TDR of scheduled Bank which shall be duly pledged in favor of

“The Registrar”
Dayalbagh Educational Institute
Dayalbagh, Agra – 282005,
Uttar Pradesh

The scanned copy of bid document fee (Tender Cost), Earnest Money, Power of attorney must be up loaded electronically along with all the bid documents.

2.13. Bid Processing Fees

All bidders are required to pay Rs.2,00/- (Rupees Two Hundred only) +18% GST= 236/- in the form of Demand Draft scheduled Bank which shall be duly pledged in favor of

“The Registrar”
Dayalbagh Educational Institute
Dayalbagh, Agra – 282005,
Uttar Pradesh

The Bid Processing/ tender Fee is Non-Refundable. Non-submission of Bid Processing/ Tender fee along with the Technical Proposal will be treated as non-responsive bid.

2.14. Submission, Receipt and Opening of Proposal

- a) The original proposal, both technical and Financial Proposals shall contain no interlineations or overwriting, except as necessary to correct errors made by the Bidders themselves. The person who signed the proposal must initial such corrections. Submission letters for both Technical and Financial Proposals should respectively be in the format of TECH-1, and FIN- 1.
- b) An authorized representative of the Bidders shall initial all pages of the original Technical and Financial Proposals. The authorization shall be in the form of a written power of attorney accompany the Proposal or in any other form demonstrating that the representative has been dully authorized to sign.
- c) Applicant (authorized signatory) shall submit its offer for preliminary qualification, technical and financial proposal e-procurement system. However, Tender Document Fees, and Earnest Money Deposit (EMD) should be deposited as per details provided in the bid document. The bid document complete in all respect is to be submitted on or before the time of last date of submission of bid through e-procurement system. Dayalbagh Education Institute will not be responsible for delay in submission due to any reason.
- d) Bidders who wish to participate in this proposal will have to register on e- procurement system of UP Govt. to participate in online proposals, bidders will have to procure Digital Signature Certificate. Bidders who already have a Valid Digital Certificate need not procure a new digital certificate. Before electronic submission of proposal, it should be ensured

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that all the proposal papers including conditions of contract are read, understood by the Applicant. The uploaded document of the bid shall contain no alteration, or additions, unless notified. In case, the bidder makes addition and/or correction, the provision written in the original document, read with the addendum or corrigendum issued shall prevail. However, scanned copy or proposals technical eligibility document and financial eligibility documents and all original papers related to Bank Guarantee, Power Attorney etc. should be uploaded with the technical bid. The Applicant shall provide all the information sought under this RFP document. The Dayalbagh Education Institute will evaluate only those Bids that are received in the required formats and complete in all respects.

- e) The Bid shall be typed or written in indelible ink and signed by the authorized signatory of the Applicant who shall also initial each page, in blue ink. All the alterations, omissions, additions or any other amendments made to the Bid shall be initialed by the person(s) signing the Bid.
- f) Bidder shall submit their offer offline as well as in online electronic format for technical and only online electronic format for financial proposal and all documents should be digitally signed in online formate. However, scanned copy of Proposal fees, EMD and all original papers related to Bank guarantee, power of attorney etc. as mentioned in Table and should be uploaded along with the technical bid in both formate.

2.15. Proposal Evaluation

- a) From the time the Proposals are opened to the time the Contract is awarded, the Bidders should not contact the Employer on any matter related to its Technical and/or Financial Proposal. Any effort by Bidders to influence the Employer in the examination, evaluation, ranking of Proposals, and recommendation for award of Contract may result in the rejection of the Bidders’ Proposal.
- b) The employer has constituted an Evaluation Committee which will carry out the entire evaluation process.
- c) **Evaluation of Technical Proposals:** The Evaluation Committee while evaluating the Technical Proposals shall have no access to the Financial Proposals until the technical evaluation is concluded and the competent authority accepts the recommendation.
- d) The Evaluation Committee shall evaluate the Technical Proposals on the basis of their responsiveness to the Terms of Reference and by applying the evaluation criteria, sub-criteria specified in the Data sheet. In the first stage of evaluation, a Proposal shall be rejected if it is found deficient as per the requirement indicated in the Data sheet for responsiveness of the proposal. Only responsive proposals shall be further taken up for evaluation. Evaluation of the technical proposal will start first and at this stage the financial bid (proposal) will remain unopened. The qualification of the bidder and the evaluation criteria for the technical proposal shall be as defined in the Data sheet.
- e) **Opening of the Financial Proposals:** Financial proposals of only those bidders that are technically qualified shall be opened.
- f) In case of discrepancy between a partial amount and the total amount, or between word and figures, the former will prevail. In addition to the above corrections the items described in the Technical Proposal but not priced, shall be assumed to be included in the prices of other activities or items.

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- g) After opening of financial proposals, appropriate selection method shall be applied to determine the bidder who will be declared winner and be eligible for award of the contract. The methods of selections are described in the RFP document [The employer shall mention here which method out of all listed method shall be applied for selection of bidder for this assignment / job]. This selected bidder will then be invited for negotiations, if considered necessary.

2.16. Negotiation

- a) Negotiations will be held at the date, time and address intimated to the qualified and selected bidder. Representatives conducting negotiations on behalf of the Bidder must have written authority to negotiate and conclude a Contract.
- b) Conclusion of the negotiations: Negotiations will conclude with a review of the draft Contract. To complete negotiations the Employer and the Bidder will initial the agreed Contract. If negotiations fail, the employer will reject all the proposals received and invite fresh proposals.

2.17. Award of Contract

- a) After completing negotiations, the Employer shall issue a Letter of Intent to the selected Bidder and promptly notify all other Bidders who have submitted proposals about the decision taken.
- b) The bidders will sign the contract after fulfilling all the formalities/ pre-conditions including Performance Guarantee as mentioned in the standard form of contract within 10 days of issuance of the letter of intent.
- c) The Bidder is expected to commence the Assignment/ job on the date and at the location specified in the document.

2.18. Confidentiality

- a) Information relating to evaluation of Proposals and recommendations concerning awards shall not be disclosed to the Bidders who submitted the Proposals or to other persons not officially concerned with the process, until the publication of the award of Contract. The undue use by any Bidder of confidential information related to the process may result in the rejection of its Proposal and may be subject to the provisions of the Employer’s antifraud and corruption policy.
- b) The employer reserves the right to verify all statements, information and documents submitted by the Applicant in response to the RFP. Any such verification or the lack of such verification by the Employer to undertake such verification shall not relieve the Applicant of its obligation or liabilities here under nor will it affect any rights of the Employer here under.
- c) The selection process shall be governed by and construed in accordance with the laws of India and Distt. Courts at Agra and High Court of judicature at Allahabad shall have exclusive jurisdiction and all disputes arising under pursuant to and/or in connection with the Selection Process.

Section -3 Instructions to Bidders - Part II

DATA SHEET

1. Name of the Assignment	: Selection of Design Built Contractor: For Design, Engineering and Construction for Prefab structures in DEI campus along with the foundation (Complete Work) Second Call
2. Eligibility of Association of bidders and sub-bidders	<ol style="list-style-type: none"> 1. The Bidder may be Single Entity means a company registered under companies act 1956 or companies act 2013 & operating in India For last 3 years 2. The Entity shall have experience in the field of, Engineering Designing and Detailing, Procurement, Construction, Commissioning, Project Monitoring and all related fields required for successful completion of Project Objective 3. Bidder should not be black listed with any Govt./ semi-Govt./ Statutory bodies/ Organizations 4. The Bidder should have experience of successfully completing similar design built lump-sum turnkey works under Govt./Quasi govt./under taking or PSU(Completion letter from client needs to be provided along with project credential) etc. during last five years as follows: <ol style="list-style-type: none"> i. One Similar work shall mean construction of Prefab structures like Shades, site offices, any kind of temporary structures etc. & contract of value not less than Rs.0.8 Crore OR ii. Two Similar work(s) shall mean construction of Prefab structures like Shades, site offices, any kind of temporary structures etc. & contracts of value not less than Rs. 0.6 Crore each OR iii. Three Similar work(s) shall mean construction of Prefab structures like Shades, site offices, any kind of temporary structures etc. & contract of value not less than Rs.0.5 Crore each 5. The Bidder should have average aggregate annual financial turnover of at least Rs.1.25 Crore. during the last 3 financial years ending 31st March 2021. The Bidder should also have profits after taxes for each of these last 3 financial years. 6. The Bidder should have under its direct payroll or MOU, Engineering Design Personnel, Architect, Civil Engineers, Design Engineers, Electrical Engineer, Environment Expert, etc. <ol style="list-style-type: none"> i. Authorized by the Local/ Statutory/Municipal/ State/ Central bodies for obtaining Statutory Approvals / NOC as required for execution of tender works, AND ii. Experienced in Design, Detailing and execution of similar works.
3. Evaluation Criteria: Criteria, sub- criteria, for evaluation of Technical Proposals have	Detailed evaluation as mentioned below this Table of Data Sheet

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been prescribed		
4. Last date of Pre bid quires through mail at registrar.dei@gmail.com	:	14 th November 2022 at 16:00 Hrs.
5. Pre-Bid Meeting	:	15 th November 2022 at 12:00 Hrs.
6. Last date for submission of tender	:	28 th November 2022 till 16:00 Hrs.
7. Technical Bid Opening Date	:	28 th November 2022 till 16:30 Hrs.

Procedure for Detailed evaluation of technical qualifications

The BIDDERS will be shortlisted against the pre-qualification criteria. Those who qualify/fulfill these criteria, shall be considered for technical evaluation.

Sr.	Particulars	Supporting Documents to be Submitted
1.	The applicant can be Single firm. The applicant should submit valid incorporation/registration certificate of the firm, PAN Card and GST registration certificate.	Attested Copy
2.	The Bidder must have experience of at least 5 years Bidder must be a Contractor having experience in similar Work. Similar work(s) shall mean Temporary structures for Industrial area, Hospitals, Schools & other buildings.	The work orders with the details of employer has to be submitted.
3.	The Bidder must have a valid GSTN certificate and EPF registration.	Copy of GSTN Certificate & EPF registration certificate
4.	The bidder should not be blacklisted/ debarred/ terminated of contract except by any Government/ Government Board/ Corporation Agency/ firm/ Statutory Board/ PSU agency/ BIDDER/ Non- Government/ Government of any sovereign countries/ Private agencies and Funding agencies in the last 05 years.	Self-Certification by the bidder
5.	The bidder should have an average minimum annual turnover of Indian Rs.1,25,00,000.0 (One crores twenty five lacs only) during the last three (3) financial years, i.e., 2018-19, 2019-20 & 2020-21.	Copy of the audited profit and loss account along with audited balance sheet of the Bidder showing turnover of the Bidder for last three years
6.	The bidder must have on its payroll at least 5 technically qualified staff (on permanent payrolls as on date.	Certificate from bidder’s statutory auditor/ agency/ firm secretary/ HR Head for number of technically qualified staff employed by them.

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The detailed technical evaluation of Proposals satisfying minimum eligibility conditions as above shall be done. The Criteria, sub-criteria and point system for detailed evaluation shall be as follows:

S.No.	Evaluation parameter	Marks
1.	Financial turnover	10
	Rs. 1.0 crores and less then Rs. 2.5 crores	05
	Rs.2.5 and above	10
2.	Specific experience of the Bidder relevant to the assignment / job	45
	1) Construction of Sustainable green Material & environment friendly structures (Bamboo & Wooden etc) 20 Marks	
	2) Construction of Prefab or temporary structures 15 Marks	
	3) Work experience for CPWD, Metro, Railways, Smart City & other central government department. for prefab structures 10 Marks	
3.	Organization structure and set up	10
	Established above 5 years	05
	Established above 10 years	10
4.	Organization & staffing	10
	5 Nos technically qualified staff on permanent payroll	05
	10 Nos technically qualified staff on permanent payroll	10
5.	Proposed Strategy, methodology and work plan in response to the terms of reference. Presentation in front of evaluating committee.	25
	Proposed concept plan and design of Structures 20 %	
	Detailed construction methodology including Site Development & foundation, Sustainable techniques, method of construction, obtaining necessary permission 30 %	
	Detailed work plan and technical personal to be deployed 30 %	
	Innovativeness in construction techniques 20 %	

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1. Evaluation of Technical Proposal: Only those proposals which score a minimum of 75 marks out of 100 in the Technical Evaluation shall qualify for next stage of bidding process i.e. opening of Financial Bids. Technical score of other applicants will be calculated as Technical Score (St) = $100 \times S_m / S$ where S_m is the technical marks of proposal under consideration and S the technical marks of the applicant with highest technical marks. The weightage given to the technical score is 80%
2. Evaluation of Financial Bid: At the second stage, the financial evaluation will be carried out as per this clause. For financial evaluation, the financial quote indicated in the Financial bid shall be considered. Financial Score $S_f = 100 \times F_m / F$, in which S_f is the financial score, F_m is the lowest price and F the price of the proposal under consideration. The weightage given to the financial score is 20%
3. DEI will determine whether the Financial Proposals are complete, unqualified and unconditional. The cost indicated in the Financial Proposal shall be deemed as final and reflecting the total cost of works. Omissions, if any, in costing any item shall not entitle the firm to be compensated and the liability to fulfill its obligations as per the TOR within the total quoted price shall be that of the Applicant.
4. Combined and Final evaluation: After determining the financial score, the shortlisted Applicant will be given total score which will be determined as under Total score = Technical Score (ST) *0.8 + Financial Score (SF) *0.2

Proposals of the post qualified Applicant during the process of evaluation of the technical bid will finally be ranked according to the total score. The selected Applicant shall be the first ranked Applicant (whose total score as calculated above is the highest). The second ranked Applicant shall be kept in reserve and may be invited for negotiations in case the first ranked Applicant withdraws, or fails to comply with the requirements specified herein above.

Section 4: Terms of Reference (TOR)

4.1 Background

The Dayalbagh Educational Institute is located amidst the tranquil environs of Dayalbagh, a self-contained colony renowned for its serene environment and secular establishments, in which its inhabitants lead an active, disciplined and co-operative community life dedicated to service, conforming to the high spiritual ideals of their faith. On the outskirts of the historic city of Agra, the campus is situated in garden settings, away from the din and noise of the city. Nestled between lush green fields, it provides an excellent ambience and academic setting which is in harmony with nature. This, along with a simple, disciplined and principled life, undoubtedly contributes to the strength of the social, moral and spiritual fiber of the institute's educational system.

Project Brief

Prefab Structures is related to prefabricated construction. The word "Prefab" is not an industry term like modular structures, manufactured structures, panelized structures, or site-built home. The term is an amalgamation of panelized and modular building systems which is well planned & designed before the initiation of construction and placement of structure as per detailed design at work site. In industry these are called Pre Engineered Building (PEB). Prefabricated structures and modular structures are dwellings manufactured in a factory in advance, usually in sections that can be easily transported to the site and integrated. Prefabs are made of composite materials which are manufactured by combination of materials containing different properties such as plastics, concrete and steel. These are specifically designed for longer period of applications or usage. Pre Engineered Buildings (PEBs) are extremely durable, weather as well as termite proof. Due to their longer life of utility and affordable cost, manufactured homes can be used for permanent, semi permanent or temporary applications.

4.2 Need & Advantage of Project

- Self-supporting ready-made components are used, so the need for formwork, shuttering and scaffolding is greatly reduced.
- Construction time is reduced and buildings are completed sooner, allowing an earlier return of the capital invested.
- On-site construction and congestion of site is minimized.
- Better quality control can be achieved in a Studio assembly line setting than at the construction site.
- Prefabrication site can be located where skilled labour is more readily available and the costs of labour, power, materials, space and overheads are reduced.
- Time spent due to bad weather or hazardous environments at the construction site is minimized.
- Less wastage & sustainable construction material
- Advanced materials such as sandwich-structured composite etc. can be easily used, improving thermal and sound insulation and air tightness

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4.3 Scope of Work

- Requirement of Blooks as per there uses.

List of Prefab Structures in Tender Document

S NO.	DEPT.	LOCATION	NO.	TYPE	SIZE (FT)	AREA (SQ.FT.)	STRUCTURE
1	ENGG. (AGRICULTURE)	NEAR GENERATOR ROOM	1	Central studio/LAB	54 X 30	1620	Prefab Porta Cabin
2	ENGG. (AGRICULTURE)	NW CORNER OF ENGG. WORKSHOP BUILDING	1	Central studio/Workshop	54 X 30	1620	Prefab Porta Cabin
3	ENGG.	BEHIND ELECTRICAL LAB	3	Laboratories	3 X 40 X 20	2400	Prefab Porta Cabin
4	ARCHITECTURE	ANUPAM UPVAN (SITE 1)	1	Central studio/LAB	54 X 30	1620	Prefab Porta Cabin
5	AGRICULTURE	ANUPAM UPVAN	1	Central studio/Workshop	54 X 30	1620	Prefab Porta Cabin
6	BOTANY	NEAR POLY HOUSE DAIRY	1	Classroom	20 X 20	400	Prefab Porta Cabin
7	ARCHITECTURE	SOUTH OF WORKS DEPT.	1	Classroom	20 X 20	400	Prefab Porta Cabin
8	TANNERY	NORTH OF CART CAMPUS	5	Temporary Workshop cabin & work shed	3 X 22 X 28 & 2 X 15 X 20	2448	Prefab Porta Cabin
10	AGRI. SITE OFFICE	SENIOR BOYS HOSTEL, REI, KHASRA NO. 359	3	Site Office/Store at Agriculture site	3 X 18 X 34	1836	Prefab Porta Cabin
11	ENGG. (AGRICULTURE)	EAST OF SENIOR SEMINAR HALL COMPLEX QUARTERS	1	Shed for Agriculture Machinery & Equipment	90 X 35	3150	Prefab Porta Cabin
12	AGRICULTUR E	ANUPAM UPVAN	1	Staff & Conference Room	31 X 50	1550	Prefab Porta Cabin
13	TOILETS	ANUPAM UPVAN	2	Toilets	2 X 22 X 14	616	Prefab Porta Cabin
14	ARTS	ANUPAM UPVAN	1	Cafeteria	52 X 26	1352	Prefab Porta Cabin
15	ARTS	ANUPAM UPVAN	1	Library	52 X 26	1352	Prefab Porta Cabin

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16	ARTS	ANUPAM UPVAN	1	Open Air Theatre	90 X 90	8100	Permanent structure
	TOTAL		24			30084	

Looking to the condition of the pre fab structures (Temporary structure) it is recommended that:

- At the DEI Tagore Cultural Centre, the built environments will not perpetuate the present concrete urban sprawl seen in most of our cities. It will instead embrace a more holistic approach of integrating public places with the soul-enriching experience of green open spaces. While incorporating sustainable building practices, conventionally built structures - that have a very high carbon footprint- will be replaced with Prefab structures. Thus, this rechargeable, collaborative open campus is an urgently needed response to what the built spaces of tomorrow should look like.
- Environmental education: Within the D.E.I. education system compulsory university-wide core course on environmental education teaches sustainable practices and integration of modern and traditional techniques. It creates a platform for the students to learn, explore in tune with nature.
- During the construction process, students will get to learn various techniques and will be involved in various stages of the construction process.

4.3.1 Design parameters

Work No. 1

S No.	Product Description	Quantity
01	<p>Prefab Lab Structure for Agriculture Department</p> <p>Dimension (Feet): 54Lx30Wx14H without Varandah</p> <ul style="list-style-type: none"> • Suitability / structural stability / completeness of structures, the structure is intended for use in wind condition of 55m/s, in Seismic zone III and ambient temperature of 0 degree C to 50 degree C. Roof should be structurally stable and suitable to meet severity of these climatic condition. <p>1. <u>Design & Material of Wall Panels</u></p> <ul style="list-style-type: none"> • Wall made in sandwich panel system using 2 Numbers 10 mm thick cement flat sheets / boards (Asbestos free) as skins conforming to IS 14276 Latest as 	01

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	<p>amended upto date, Category 3 Type B of IS 14862:2000 latest as amended up to date. These are the minimum specification to be recommended.</p> <ul style="list-style-type: none"> ● Sandwich material - 27 mm gap in between wall skins to be filled with 27mm thick expanded polystyrene core having bulk density of 15 Kg /Cum conforming to IS 4671:1984 type I (Latest) ● Panel Strengthened On all four sides By 'W' shaped pre-profiled steel section made from 0.63 GI steel sheet / coil. ● Cement sheet and expanded polystyrene core to be bonded together using bonding material PVA (polyvinyl acetate) based conforming to IS 4835/Latest, uniformly & fully applied on both sides of the expanded polystyrene cores to ensure proper bonding of the panels. No patching of adhesive will be accepted. ● 'U' shaped ground /track size (panels to be inserted one by one made from GI steel sheet / coil. ● Bottom track to be fixed to the concrete platform at plinth level by suitable fasteners screwed into PVC expandable Screw cap. ● Interlocking of wall panel (lengthwise) using cold-formed rectangular hollow steel section. ● Wall corners to be concealed With corner angle made from GI steel sheet / Coil. ● Top of walls to be concealed With 'U' shaped top track made from GI steel sheet / coil. ● Sellers are free to adopt higher sizes/ reinforcement for better fitment or mating of components or for improved stability after the approval from concern authority. 	
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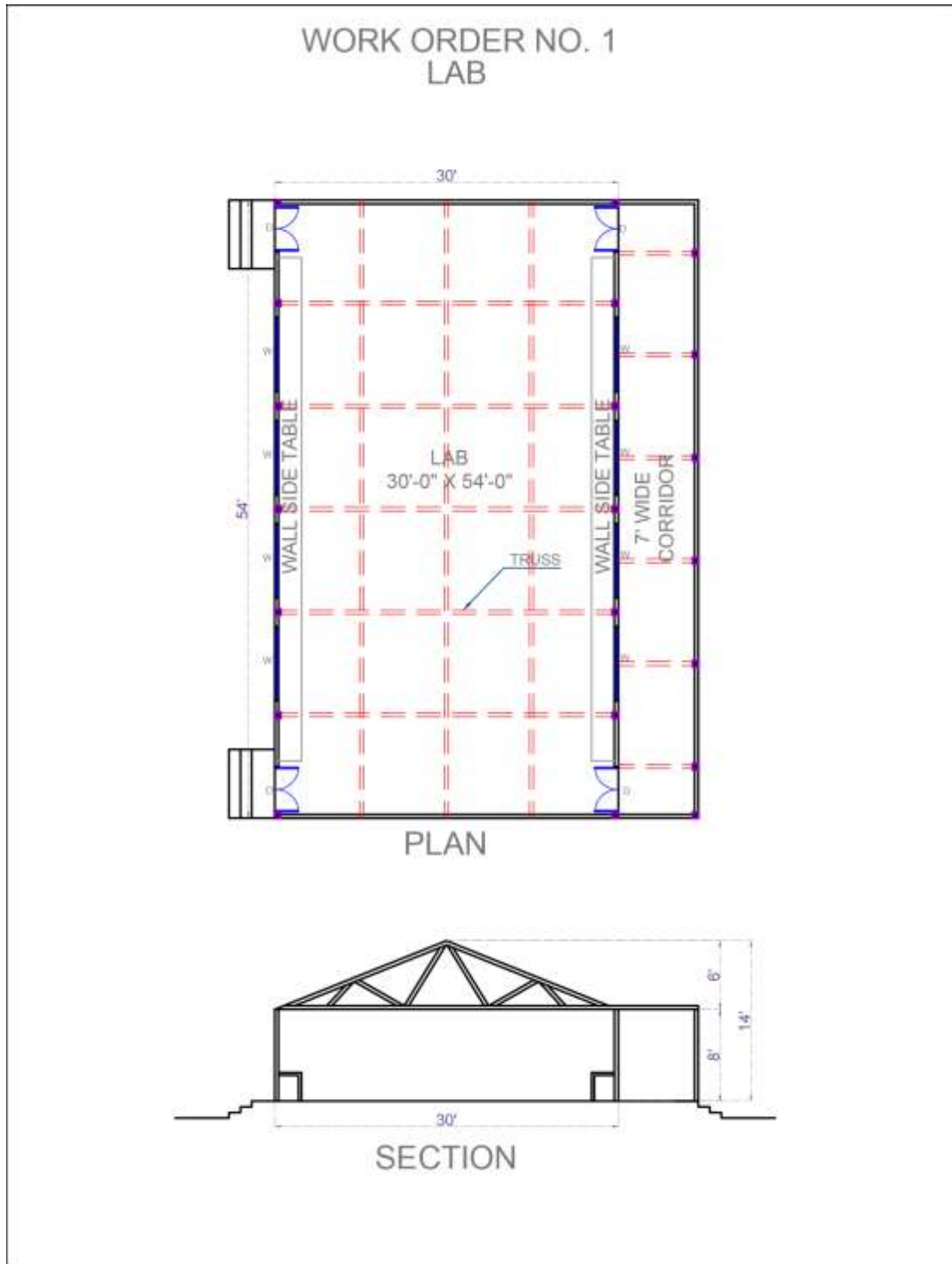
	<p>2. <u>Roof & Roof Frame Work</u></p> <ul style="list-style-type: none"> ● Type of Roof of Prefab Pitched Roof of corrugated galvanized steel sheet. ● Wall height at eaves and central gable - 3000mm at eaves and 4200mm at central gable ● Roof to be done with Galvanised corrugated sheets of 0.63mm thickness conforming to IS 277/Latest having min. 275gsm galvanising, Corrugated prepainted galvanised steel sheets and prepainted galvanised steel sheet ridge cover with thickness of BMT 0.63mm conforming to IS 14246/Latest. Top coat of sheet shall be PVDE/ Sillicon modified Polyester having thickness of 20 micron (Min) and Back coat shall be of Alkaloid epoxy or polyester having thickness of 7 micron (Min). A protection sheet (Polyethylene) shall also be provided on top coat of the sheet for transport. The durability of paint coating shall correspond to class 1 as per table - 1 of IS :14246:2013. (Colour shade of exterior finish shall be approved by the authority). The Seller shall furnish manufacture's test certificate indicating material of coating and suitability of exterior application. ● Roof to be laid over Frame work of trusses - columns and purlins fixed using suitable fasteners like 'J' hooks with bitumen washers and nuts/bolts. ● Size of Ridge cover to be fixed on top junction of roof of same material as Roof as per structure design. ● Roof slope 1:4(approx) ● Column to be welded With MS end plate and to be fixed to the foundation bolts through this plate. ● Trusses / purlins to be fixed Using MS end plates and nuts and bolts. ● Truss, columns, Purlin & other structural element sizes would be decided as per structural design of the structure & should be approved by the client before 	
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	<p>procurement.</p> <p>3. <u>Varandah & Doors</u></p> <ul style="list-style-type: none"> ● Width of verandah 2100mm on the longer side of the structure ● Clear height of verandah 2400 mm ● Verandah roof to be made of GI (continuous provided along the roof of the structure) ● Truss, columns, Purlin & other structural element sizes would be decided as per structural design of the structure & should be approved by the client before procurement. ● All necessary hardware which would be used the same will be provided ISI mark <p>4. <u>Windows & Ventilators</u></p> <ul style="list-style-type: none"> ● Windows as per drawings, Quantity- 8 Nos.(2000x2100) each ● All necessary hardware which would be used the same will be provided ISI mark. ● Ventilators as per drawings Quantity- 8 Nos. (2000x300) each ● Frame material of windows/ventilators Made from pressed steel using CR steel as per design requirement. ● Grills for Windows/Ventilators Made from MS square bar of 8mm having equal spacing of 125mm ● Glass sheet for windows/ventilators Of 4mm thickness to be fixed using glass putty <p>5. <u>Electrical Wiring & Fitments</u></p> <ul style="list-style-type: none"> ● Electrical point should be provided on each side wall which caters 40 students. Electrical points/sockets/fan regulators/gang way boxes To be provided ISI mark ● Main switch board Comprising of SP/DP MCBs to be supplied in addition. ● Wiring: 0.75, 1.5, 2.5, 4 mm thickness 	
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	<ul style="list-style-type: none"> ● Switch & Socket: 5 Amp. & 16 Amp. ● Cables and PVC conduit Adequate quantity to be provided ● Electrical installation/completeness Seller is fully responsible for wiring etc. (except light fittings) ● Fan regulator Conforming to IS 11037/Latest ● Adequate Lighting for proper legibility & reading for the student should be provided. ● Ceiling fan (09 nos.) or as per requirement of size. ● Exhaust Fan: 8x8 inch (4 Nos.) or as per requirement of size. <p>6. <u>Color & Finish</u></p> <ul style="list-style-type: none"> ● Corrugated GI sheets and ridge cover Confmg. to IS 277/Latest and have a min. galvanizing coating of 275gsm ● Other GI profiles Confmg. to IS 277/Latest and have a min. galvanizing coating of 120gsm ● MS steel members To be supplied with one coat of red oxide primer coating. ● Internal wall panels To be one coat of cement primer and two coats of white oil bound emulsion. ● External wall panels To be one coat of cement primer and two coats of exterior paint. ● Colour/Shade of paint As per buyer's choice. ● Primers to be used As per client choice. ● Paints to be used As per client choice 	
02	<p>1. <u>Modular Lab Furniture</u></p> <p>Product Wall side table with Fixed- Plinth Based Frame.</p> <p><u>Dimesion of Furniture</u></p>	

	<p>Height - 2.5 FT</p> <p>Length - 44 FT x 2</p> <p>Depth - 2 FT</p> <p><u>Specification for Modular Lab furniture</u></p> <p>Completely made of 1.2 mm powder coating cold-rolled steel standard with working average chemical resistance black granite top platform 18(+2)mm thick duly edge polished fitted with shutter & drawer, hydraulic hinge & telescopic channel & 02 stool space, Single side table with PP sink 12 inch</p> <ul style="list-style-type: none"> ● Material of construction : Cold-rolled steel ● Fitted with Pullout Tray ● 5/15A sockets & switch ● Taps: 3 way over the sink. Taps comply with all relevant ISO standards. ● Polypropylene sink : Suitable for all standard chemical work solvent usage. <p>2. <u>File Cabinet</u></p> <p><u>Dimension of Cabinet</u></p> <p>Height : 7 feet</p> <p>Depth: 1.5 feet</p> <p>Length : 3 feet</p> <p>Completely made of 1.2 mm Electrostatic powder coating Cold-rolled steel</p> <ul style="list-style-type: none"> ● Sheets standard fitted 04/05 drawers ● Seek and Sturdy design ● Powder-coated to resist corrosion ● Designed with storage Drawers to save your space ● Durable cold-rolled steel plate construction 	
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TYPICAL PLAN & SECTION FOR THE REFERENCE

Work No. 2

S No.	Product Description	Quantity
01	<p>Prefab Workshop Structure for Agriculture Department</p> <p>Dimension (Feet): 54Lx30Wx14H without Varandah</p> <ul style="list-style-type: none"> ● Suitability / structural stability / completeness of structures, the structure is intended for use in wind condition of 55m/s, in Seismic zone III and ambient temperature of 0 degree C to 50 degree C. Roof should be structurally stable and suitable to meet severity of these climatic condition. <p>1. <u>Design & Material of Wall Panels</u></p> <ul style="list-style-type: none"> ● Wall made in sandwich panel system using 2 Numbers 10 mm thick cement flat sheets / boards (Asbestos free) as skins conforming to IS 14276 Latest as amended upto date, Category 3 Type B of IS 14862:2000 latest as amended up to date. ● Sandwich material - 27 mm gap in between wall skins to be filled with 27mm thick expanded polystyrene core having bulk density of 15 Kg /Cum conforming to IS 4671:1984 type I (Latest) ● Panel Strengthened On all four sides By 'W' shaped pre-profiled steel section 	01

	<p>made from 0.63 GI steel sheet / coil.</p> <ul style="list-style-type: none"> ● Cement sheet and expanded polystyrene core to be bonded together using bonding material PVA (polyvinyl acetate) based conforming to IS 4835/Latest, uniformly & fully applied on both sides of the expanded polystyrene cores to ensure proper bonding of the panels. No patching of adhesive will be accepted. ● 'U' shaped ground /track size (panels to be inserted one by one made from GI steel sheet / coil. ● Bottom track to be fixed to the concrete platform at plinth level by suitable fasteners screwed into PVC expandable Screw cap. ● Interlocking of wall panel (lengthwise) using cold-formed rectangular hollow steel section. ● Wall corners to be concealed With corner angle made from GI steel sheet / Coil. ● Top of walls to be concealed With 'U' shaped top track made from GI steel sheet / coil. ● Sellers are free to adopt higher sizes/ reinforcement for better fitment or mating of components or for improved stability after the approval from concern authority. <p>2. <u>Roof & Roof Frame Work</u></p> <ul style="list-style-type: none"> ● Type of Roof of Prefab Pitched Roof of corrugated galvanized steel sheet. ● Wall height at eaves and central gable - 3000mm at eaves and 4200mm at central gable ● Roof to be done with Galvanised corrugated sheets of 0.63mm thickness conforming to IS 277/Latest having min. 275gsm galvanising, Corrugated prepainted galvanised steel sheets and prepainted galvanised steel sheet ridge 	
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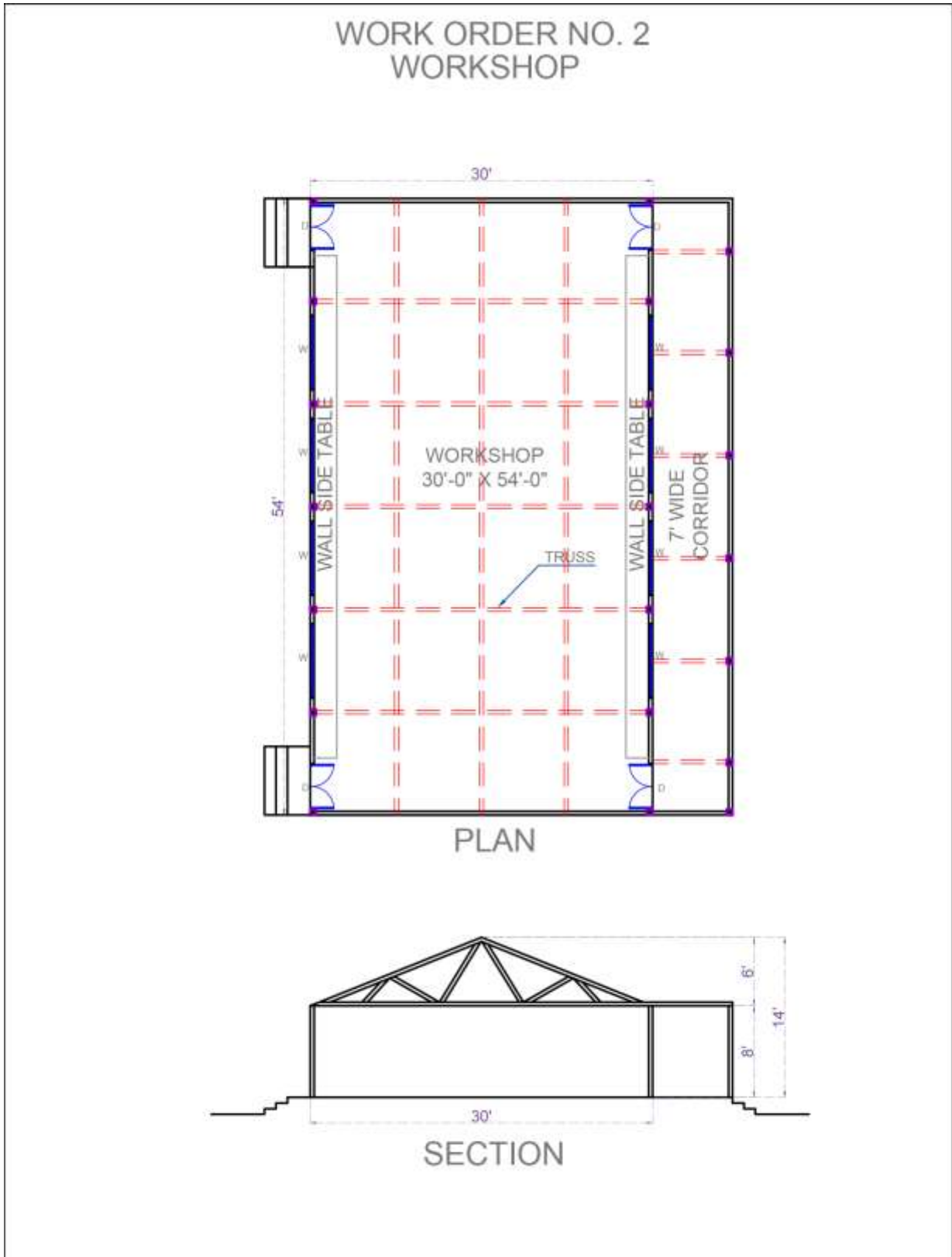
	<p>cover with thickness of BMT 0.63mm conforming to IS 14246/Latest. Top coat of sheet shall be PVDE/ Silicon modified Polyester having thickness of 20 micron (Min) and Back coat shall be of Alkaloid epoxy or polyester having thickness of 7 micron (Min). A protection sheet (Polyethylene) shall also be provided on top coat of the sheet for transport. The durability of paint coating shall correspond to class 1 as per table - 1 of IS :14246:2013. (Colour shade of exterior finish shall be approved by the authority). The Seller shall furnish manufacture's test certificate indicating material of coating and suitability of exterior application.</p> <ul style="list-style-type: none"> ● Roof to be laid over Frame work of trusses - columns and purlins fixed using suitable fasteners like 'J' hooks with bitumen washers and nuts/bolts. ● Size of Ridge cover to be fixed on top junction of roof of same material as Roof as per structure design. ● Roof slope 1:4(approx) ● Column to be welded With MS end plate and to be fixed to the foundation bolts through this plate. ● Trusses / purlins to be fixed Using MS end plates and nuts and bolts. ● Truss, columns, Purlin & other structural element sizes would be decided as per structural design of the structure & should be approved by the client before procurement. <p>3. <u>Varandah & Doors</u></p> <ul style="list-style-type: none"> ● Width of verandah 2100mm on the longer side of the structure ● Clear height of verandah 2400 mm ● Verandah roof to be made of GI (continuous provided along the roof of the structure) ● Truss, columns, Purlin & other structural element sizes would be decided as per structural design of the structure & 	
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	<p>should be approved by the client before procurement.</p> <ul style="list-style-type: none"> ● All necessary hardware which would be used the same will be provided ISI mark <p>4. <u>Windows & Ventilators</u></p> <ul style="list-style-type: none"> ● Windows as per drawings, Quantity- 8 Nos.(2000x2100) each ● All necessary hardware which would be used the same will be provided ISI mark. ● Ventilators as per drawings Quantity- 8 Nos. (2000x300) each ● Frame material of windows/ventilators Made from pressed steel using CR steel as per design requirement. ● Grills for Windows/Ventilators Made from MS square bar of 8mm having equal spacing of 125mm ● Glass sheet for windows/ventilators Of 4mm thickness to be fixed using glass putty <p>5. <u>Electrical Wiring & Fitments</u></p> <ul style="list-style-type: none"> ● Electrical point should be provided on each side wall which caters 40 students. Electrical points/sockets/fan regulators/gang way boxes To be provided ISI mark ● Main switch board Comprising of SP/DP MCBs to be supplied in addition. ● Wiring: 0.75, 1.5, 2.5, 4 mm thickness ● Switch & Socket: 5 Amp. & 16 Amp. ● Cables and PVC conduit Adequate quantity to be provided ● Electrical installation/completeness Seller is fully responsible for wiring etc. (except light fittings) ● Fan regulator Conforming to IS 11037/Latest ● Adequate Lighting for proper legibility & reading for the student should be provided. ● Ceiling fan (09 nos.) or as per 	
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	<p>requirement of size.</p> <ul style="list-style-type: none"> ● Exhaust Fan: 8x8 inch (4 Nos.) or as per requirement of size. <p>6. <u>Color & Finish</u></p> <ul style="list-style-type: none"> ● Corrugated GI sheets and ridge cover Confg. to IS 277/Latest and have a min. galvanizing coating of 275gsm ● Other GI profiles Confg. to IS 277/Latest and have a min. galvanizing coating of 120gsm ● MS steel members To be supplied with one coat of red oxide primer coating. ● Internal wall panels To be one coat of cement primer and two coats of white oil bound emulsion. ● External wall panels To be one coat of cement primer and two coats of exterior paint. ● Colour/Shade of paint As per buyer's choice. ● Primers to be used As per client choice. ● Paints to be used As per client choice 	
02	<p><u>Modular Lab Furniture</u></p> <p>Product Wall side table with Fixed- Plinth Based Frame.</p> <p><u>Dimesion of Furniture</u></p> <p>Height - 2.5 FT</p> <p>Length - 44 FT x 2</p> <p>Depth - 2 FT</p> <p><u>Specification for Modular Lab furniture</u></p> <p>Completely made of 1.2 mm powder coating cold-rolled steel standard with working average chemical resistance black granite top platform 18(+2)mm thick duly edge polished fitted with shutter & drawer, hydraulic hinge & telescopic channel & 02 stool space, Single side table with PP sink 12 inch</p>	

RFP for “Design, Supply, Construction, Installation of Prefab Structures in DEI Campus in Agra City (U.P) on EPC Contract mode” Second Call

	<ul style="list-style-type: none">● Material of construction : Cold-rolled steel● Fitted with Pullout Tray● 5/15A sockets & switch● Taps: 3 way over the sink. Taps comply with all relevant ISO standards.● Polypropylene sink : Suitable for all standard chemical work solvent usage.	
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TYPICAL PLAN & SECTION FOR THE REFERENCE

Work No. 3

S No.	Product Description	Quantity
01	<p>Prefab Lab Structure for Engineering Department</p> <p>Dimension (Feet): 40Lx20Wx14H without Varandah</p> <ul style="list-style-type: none"> ● Suitability / structural stability / completeness of structures, the structure is intended for use in wind condition of 55m/s, in Seismic zone III and ambient temperature of 0 degree C to 50 degree C. Roof should be structurally stable and suitable to meet severity of these climatic condition. <p>1. <u>Design & Material of Wall Panels</u></p> <ul style="list-style-type: none"> ● Wall made in sandwich panel system using 2 Numbers 10 mm thick cement flat sheets / boards (Asbestos free) as skins conforming to IS 14276 Latest as amended upto date, Category 3 Type B of IS 14862:2000 latest as amended up to date. ● Sandwich material - 27 mm gap in between wall skins to be filled with 27mm thick expanded polystyrene core having bulk density of 15 Kg /Cum conforming to IS 4671:1984 type I (Latest) ● Panel Strengthened On all four sides By 'W' shaped pre-profiled steel section made from 0.63 GI steel sheet / coil. ● Cement sheet and expanded polystyrene core to be bonded together using bonding material PVA (polyvinyl acetate) based conforming to IS 4835/Latest, uniformly & fully applied on both sides of the expanded polystyrene cores to ensure proper bonding of the panels. No patching of adhesive will be accepted. ● 'U' shaped ground /track size (panels to be inserted one by one made from GI 	03

	<p>steel sheet / coil.</p> <ul style="list-style-type: none"> ● Bottom track to be fixed to the concrete platform at plinth level by suitable fasteners screwed into PVC expandable Screw cap. ● Interlocking of wall panel (lengthwise) using cold-formed rectangular hollow steel section. ● Wall corners to be concealed With corner angle made from GI steel sheet / Coil. ● Top of walls to be concealed With 'U' shaped top track made from GI steel sheet / coil. ● Sellers are free to adopt higher sizes/ reinforcement for better fitment or mating of components or for improved stability after the approval from concern authority. <p><u>2. Roof & Roof Frame Work</u></p> <ul style="list-style-type: none"> ● Type of Roof of Prefab Pitched Roof of corrugated galvanized steel sheet. ● Wall height at eaves and central gable - 3000mm at eaves and 4200mm at central gable ● Roof to be done with Galvanised corrugated sheets of 0.63mm thickness conforming to IS 277/Latest having min. 275gsm galvanising, Corrugated prepainted galvanised steel sheets and prepainted galvanised steel sheet ridge cover with thickness of BMT 0.63mm conforming to IS 14246/Latest. Top coat of sheet shall be PVDE/ Sillicon modified Polyester having thickness of 20 micron (Min) and Back coat shall be of Alkaloid epoxy or polyester having thickness of 7 micron (Min). A protection sheet (Polyethylene) shall also be provided on top coat of the sheet for transport. The durability of paint coating shall correspond to class 1 as per table - 1 of IS :14246:2013. (Colour shade of exterior finish shall be approved by the 	
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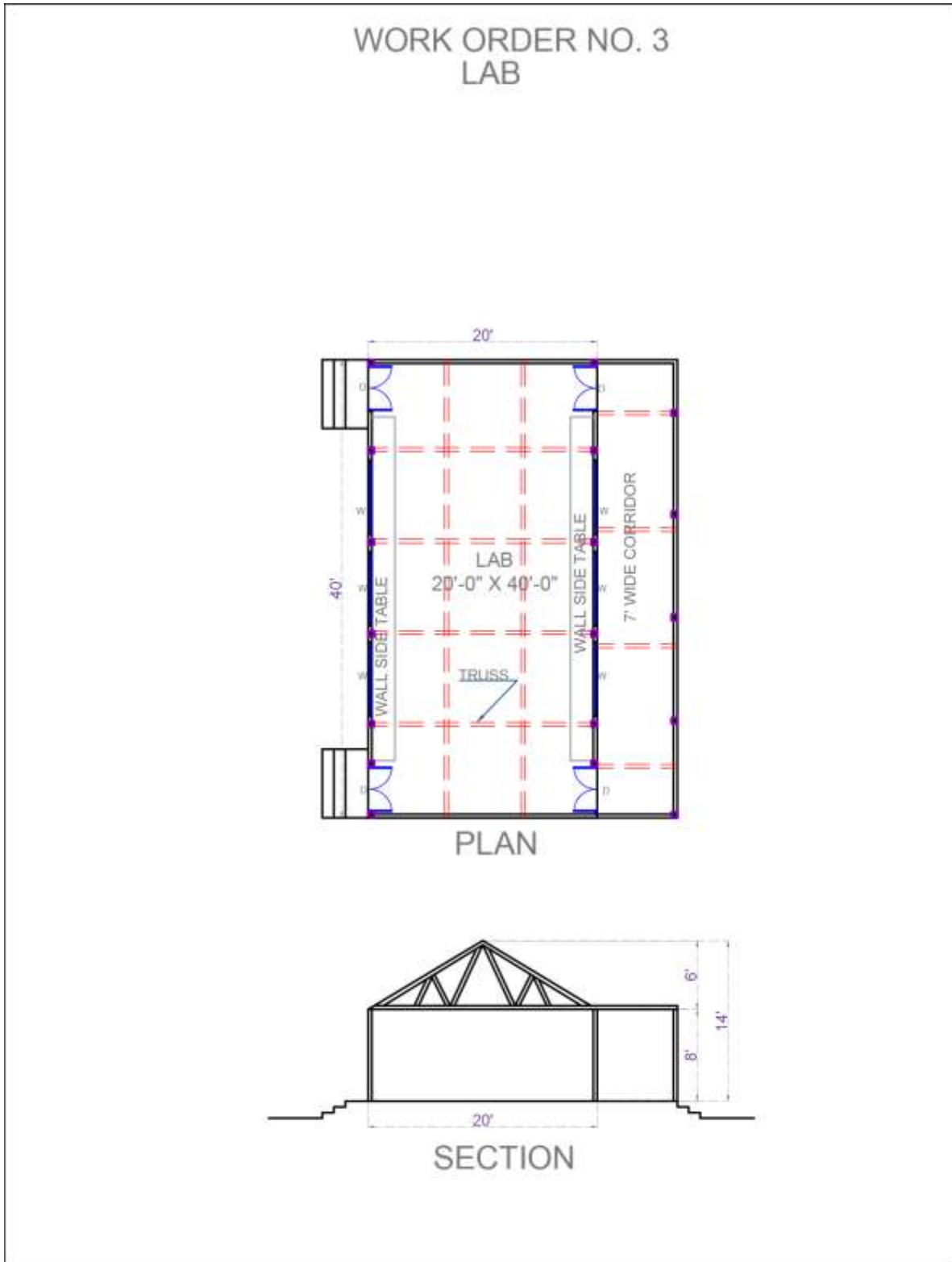
	<p>authority). The Seller shall furnish manufacture's test certificate indicating material of coating and suitability of exterior application.</p> <ul style="list-style-type: none"> ● Roof to be laid over Frame work of trusses - columns and purlins fixed using suitable fasteners like 'J' hooks with bitumen washers and nuts/bolts. ● Size of Ridge cover to be fixed on top junction of roof of same material as Roof as per structure design. ● Roof slope 1:4(approx) ● Column to be welded With MS end plate and to be fixed to the foundation bolts through this plate. ● Trusses / purlins to be fixed Using MS end plates and nuts and bolts. ● Truss, columns, Purlin & other structural element sizes would be decided as per structural design of the structure & should be approved by the client before procurement. <p>3. <u>Varandah & Doors</u></p> <ul style="list-style-type: none"> ● Width of verandah 2100mm on the longer side of the structure ● Clear height of verandah 2400 mm ● Verandah roof to be made of GI (continuous provided along the roof of the structure) ● Truss, columns, Purlin & other structural element sizes would be decided as per structural design of the structure & should be approved by the client before procurement. ● All necessary hardware which would be used the same will be provided ISI mark <p>4. <u>Windows & Ventilators</u></p> <ul style="list-style-type: none"> ● Windows as per drawings, Quantity- 6 Nos.(2000x2100) each ● All necessary hardware which would be used the same will be provided ISI mark. ● Ventilators as per drawings Quantity- 6 	
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	<p>Nos. (2000x300) each</p> <ul style="list-style-type: none"> ● Frame material of windows/ventilators Made from pressed steel using CR steel as per design requirement. ● Grills for Windows/Ventilators Made from MS square bar of 8mm having equal spacing of 125mm ● Glass sheet for windows/ventilators Of 4mm thickness to be fixed using glass putty <p>5. <u>Electrical Wiring & Fitments</u></p> <ul style="list-style-type: none"> ● Electrical point should be provided on each side wall which caters 40 students. Electrical points/sockets/fan regulators/gang way boxes To be provided ISI mark ● Main switch board Comprising of SP/DP MCBs to be supplied in addition. ● Wiring: 0.75, 1.5, 2.5, 4 mm thickness ● Switch & Socket: 5 Amp. & 16 Amp. ● Cables and PVC conduit Adequate quantity to be provided ● Electrical installation/completeness Seller is fully responsible for wiring etc. (except light fittings) ● Fan regulator Conforming to IS 11037/Latest ● Adequate Lighting for proper legibility & reading for the student should be provided. ● Ceiling fan (09 nos.) or as per requirement of size. ● Exhaust Fan: 8x8 inch (4 Nos.) or as per requirement of size. <p>6. <u>Color & Finish</u></p> <ul style="list-style-type: none"> ● Corrugated GI sheets and ridge cover Confmg. to IS 277/Latest and have a min. galvanizing coating of 275gsm ● Other GI profiles Confmg. to IS 277/Latest and have a min. galvanizing 	
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RFP for “Design, Supply, Construction, Installation of Prefab Structures in DEI Campus in Agra City (U.P) on EPC Contract mode” Second Call

	<p>coating of 120gsm</p> <ul style="list-style-type: none"> ● MS steel members To be supplied with one coat of red oxide primer coating. ● Internal wall panels To be one coat of cement primer and two coats of white oil bound emulsion. ● External wall panels To be one coat of cement primer and two coats of exterior paint. ● Colour/Shade of paint As per buyer's choice. ● Primers to be used As per client choice. ● Paints to be used As per client choice 	
02	<p><u>Modular Lab Furniture</u></p> <p>Product Wall side table with Fixed- Plinth Based Frame.</p> <p><u>Dimesion of Furniture</u></p> <p>Height - 2.5 FT Length - 30 FT x 2 Depth - 2 FT</p> <p><u>Specification for Modular Lab furniture</u></p> <p>Completely made of 1.2 mm powder coating cold-rolled steel standard with working average chemical resistance black granite top platform 18(+2)mm thick duly edge polished fitted with shutter & drawer, hydraulic hinge & telescopic channel & 02 stool space, Single side table with PP sink 12 inch</p> <ul style="list-style-type: none"> ● Material of construction : Cold-rolled steel ● Fitted with Pullout Tray ● 5/15A sockets & switch ● Taps: 3 way over the sink. Taps comply with all relevant ISO standards. ● Polypropylene sink : Suitable for all standard chemical work solvent usage. 	

**RFP for “Design, Supply, Construction, Installation of Prefab Structures in DEI Campus in Agra City
(U.P) on EPC Contract mode” Second Call**



TYPICAL PLAN & SECTION FOR THE REFERENCE

Work No. 4

RFP for “Design, Supply, Construction, Installation of Prefab Structures in DEI Campus in Agra City (U.P) on EPC Contract mode” Second Call

S No.	Product Description	Quantity
01	<p>Prefab Lab Structure for Architecture Department</p> <p>Dimension (Feet): 54Lx30Wx14H without Varandah</p> <ul style="list-style-type: none"> ● Suitability / structural stability / completeness of structures, the structure is intended for use in wind condition of 55m/s, in Seismic zone III and ambient temperature of 0 degree C to 50 degree C. Roof should be structurally stable and suitable to meet severity of these climatic condition. <p>1. <u>Design & Material of Wall Panels</u></p> <ul style="list-style-type: none"> ● Wall made in sandwich panel system using 2 Numbers 10 mm thick cement flat sheets / boards (Asbestos free) as skins conforming to IS 14276 Latest as amended upto date, Category 3 Type B of IS 14862:2000 latest as amended up to date. ● Sandwich material - 27 mm gap in between wall skins to be filled with 27mm thick expanded polystyrene core having bulk density of 15 Kg /Cum conforming to IS 4671:1984 type I (Latest) ● Panel Strengthened On all four sides By 'W' shaped pre-profiled steel section made from 0.63 GI steel sheet / coil. ● Cement sheet and expanded polystyrene core to be bonded together using bonding material PVA (polyvinyl acetate) based conforming to IS 4835/Latest, uniformly & fully applied on both sides of the expanded polystyrene cores to ensure proper bonding of the panels. No patching of adhesive will be accepted. ● 'U' shaped ground /track size (panels to 	01

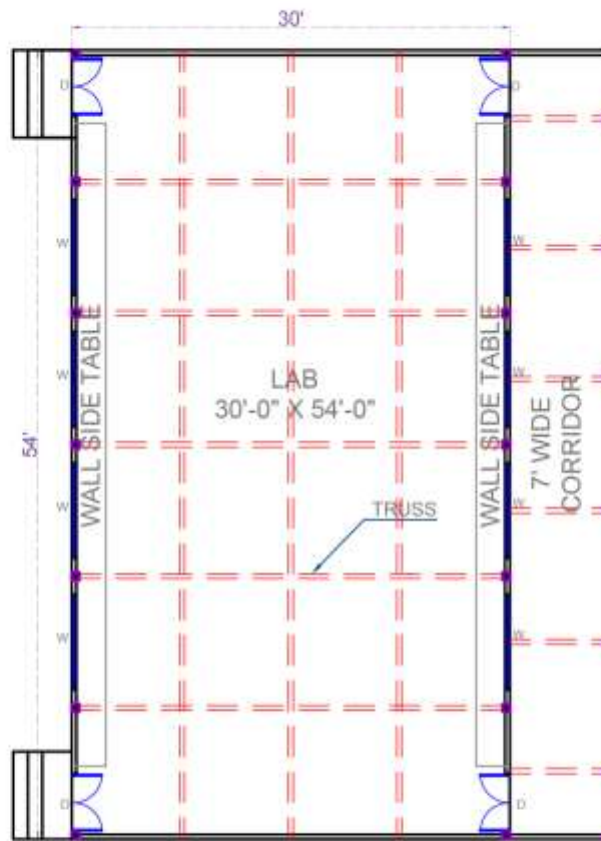
	<p>be inserted one by one made from GI steel sheet / coil.</p> <ul style="list-style-type: none"> ● Bottom track to be fixed to the concrete platform at plinth level by suitable fasteners screwed into PVC expandable Screw cap. ● Interlocking of wall panel (lengthwise) using cold-formed rectangular hollow steel section. ● Wall corners to be concealed With corner angle made from GI steel sheet / Coil. ● Top of walls to be concealed With 'U' shaped top track made from GI steel sheet / coil. ● Sellers are free to adopt higher sizes/ reinforcement for better fitment or mating of components or for improved stability after the approval from concern authority. <p>2. <u>Roof & Roof Frame Work</u></p> <ul style="list-style-type: none"> ● Type of Roof of Prefab Pitched Roof of corrugated galvanized steel sheet. ● Wall height at eaves and central gable - 3000mm at eaves and 4200mm at central gable ● Roof to be done with Galvanised corrugated sheets of 0.63mm thickness conforming to IS 277/Latest having min. 275gsm galvanising, Corrugated prepainted galvanised steel sheets and prepainted galvanised steel sheet ridge cover with thickness of BMT 0.63mm conforming to IS 14246/Latest. Top coat of sheet shall be PVDE/ Sillicon modified Polyester having thickness of 20 micron (Min) and Back coat shall be of Alkaloid epoxy or polyester having thickness of 7 micron (Min). A protection sheet (Polyethylene) shall also be provided on top coat of the sheet for transport. The durability of paint coating shall correspond to class 1 as per table - 1 of IS :14246:2013. (Colour shade of 	
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	<p>exterior finish shall be approved by the authority). The Seller shall furnish manufacture's test certificate indicating material of coating and suitability of exterior application.</p> <ul style="list-style-type: none"> ● Roof to be laid over Frame work of trusses - columns and purlins fixed using suitable fasteners like 'J' hooks with bitumen washers and nuts/bolts. ● Size of Ridge cover to be fixed on top junction of roof of same material as Roof as per structure design. ● Roof slope 1:4(approx) ● Column to be welded With MS end plate and to be fixed to the foundation bolts through this plate. ● Trusses / purlins to be fixed Using MS end plates and nuts and bolts. ● Truss, columns, Purlin & other structural element sizes would be decided as per structural design of the structure & should be approved by the client before procurement. <p>3. <u>Varandah & Doors</u></p> <ul style="list-style-type: none"> ● Width of verandah 2100mm on the longer side of the structure ● Clear height of verandah 2400 mm ● Verandah roof to be made of GI (continuous provided along the roof of the structure) ● Truss, columns, Purlin & other structural element sizes would be decided as per structural design of the structure & should be approved by the client before procurement. ● All necessary hardware which would be used the same will be provided ISI mark <p>4. <u>Windows & Ventilators</u></p> <ul style="list-style-type: none"> ● Windows as per drawings, Quantity- 8 Nos.(2000x2100) each ● All necessary hardware which would be used the same will be provided ISI mark. 	
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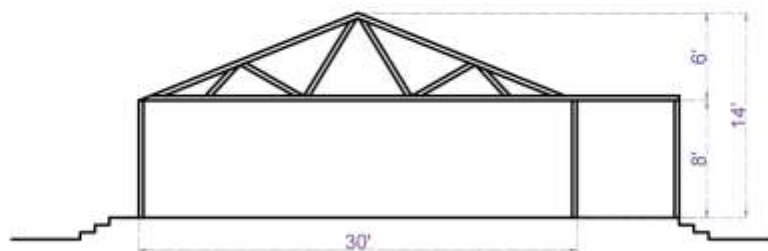
	<ul style="list-style-type: none"> ● Ventilators as per drawings Quantity- 8 Nos. (2000x300) each ● Frame material of windows/ventilators Made from pressed steel using CR steel as per design requirement. ● Grills for Windows/Ventilators Made from MS square bar of 8mm having equal spacing of 125mm ● Glass sheet for windows/ventilators Of 4mm thickness to be fixed using glass putty <p><u>5. Electrical Wiring & Fitments</u></p> <ul style="list-style-type: none"> ● Electrical point should be provided on each side wall which caters 40 students. Electrical points/sockets/fan regulators/gang way boxes To be provided ISI mark ● Main switch board Comprising of SP/DP MCBs to be supplied in addition. ● Wiring: 0.75, 1.5, 2.5, 4 mm thickness ● Switch & Socket: 5 Amp. & 16 Amp. ● Cables and PVC conduit Adequate quantity to be provided ● Electrical installation/completeness Seller is fully responsible for wiring etc. (except light fittings) ● Fan regulator Conforming to IS 11037/Latest ● Adequate Lighting for proper legibility & reading for the student should be provided. ● Ceiling fan (09 nos.) or as per requirement of size. ● Exhaust Fan: 8x8 inch (4 Nos.) or as per requirement of size. <p><u>6. Color & Finish</u></p> <ul style="list-style-type: none"> ● Corrugated GI sheets and ridge cover Confg. to IS 277/Latest and have a min. galvanizing coating of 275gsm ● Other GI profiles Confg. to IS 	
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	<p>277/Latest and have a min. galvanizing coating of 120gsm</p> <ul style="list-style-type: none"> ● MS steel members To be supplied with one coat of red oxide primer coating. ● Internal wall panels To be one coat of cement primer and two coats of white oil bound emulsion. ● External wall panels To be one coat of cement primer and two coats of exterior paint. ● Colour/Shade of paint As per buyer's choice. ● Primers to be used As per client choice. ● Paints to be used As per client choice 	
02	<p><u>Modular Lab Furniture</u></p> <p>Product Wall side table with Fixed- Plinth Based Frame.</p> <p><u>Dimesion of Furniture</u></p> <p>Height - 2.5 FT Length - 44 FT x 2 Depth - 2 FT</p> <p><u>Specification for Modular Lab furniture</u></p> <p>Completely made of 1.2 mm powder coating cold-rolled steel standard with working average chemical resistance black granite top platform 18(+2)mm thick duly edge polished fitted with shutter & drawer, hydraulic hinge & telescopic channel & 02 stool space, Single side table with PP sink 12 inch</p> <ul style="list-style-type: none"> ● Material of construction : Cold-rolled steel ● Fitted with Pullout Tray ● 5/15A sockets & switch ● Taps: 3 way over the sink. Taps comply with all relevant ISO standards. ● Polypropylene sink : Suitable for all standard chemical work solvent usage. 	

WORK ORDER NO. 4
LAB



PLAN



SECTION

TYPICAL PLAN & SECTION FOR THE REFERENCE

Work No. 5

S No.	Product Description	Quantity
01	<p>Prefab workshop Structure for Agriculture Department</p> <p>Dimension (Feet): 54Lx30Wx14H without Varandah</p> <ul style="list-style-type: none"> ● Suitability / structural stability / completeness of structures, the structure is intended for use in wind condition of 55m/s, in Seismic zone III and ambient temperature of 0 degree C to 50 degree C. Roof should be structurally stable and suitable to meet severity of these climatic condition. <p>1. <u>Design & Material of Wall Panels</u></p> <ul style="list-style-type: none"> ● Wall made in sandwich panel system using 2 Numbers 10 mm thick cement flat sheets / boards (Asbestos free) as skins conforming to IS 14276 Latest as amended upto date, Category 3 Type B of IS 14862:2000 latest as amended up to date. ● Sandwich material - 27 mm gap in between wall skins to be filled with 27mm thick expanded polystyrene core having bulk density of 15 Kg /Cum conforming to IS 4671:1984 type I (Latest) ● Panel Strengthened On all four sides By 'W' shaped pre-profiled steel section made from 0.63 GI steel sheet / coil. ● Cement sheet and expanded polystyrene core to be bonded together using bonding material PVA (polyvinyl 	01

	<p>acetate) based conforming to IS 4835/Latest, uniformly & fully applied on both sides of the expanded polystyrene cores to ensure proper bonding of the panels. No patching of adhesive will be accepted.</p> <ul style="list-style-type: none"> ● 'U' shaped ground /track size (panels to be inserted one by one made from GI steel sheet / coil. ● Bottom track to be fixed to the concrete platform at plinth level by suitable fasteners screwed into PVC expandable Screw cap. ● Interlocking of wall panel (lengthwise) using cold-formed rectangular hollow steel section. ● Wall corners to be concealed With corner angle made from GI steel sheet / Coil. ● Top of walls to be concealed With 'U' shaped top track made from GI steel sheet / coil. ● Sellers are free to adopt higher sizes/ reinforcement for better fitment or mating of components or for improved stability after the approval from concern authority. <p>2. <u>Roof & Roof Frame Work</u></p> <ul style="list-style-type: none"> ● Type of Roof of Prefab Pitched Roof of corrugated galvanized steel sheet. ● Wall height at eaves and central gable - 3000mm at eaves and 4200mm at central gable ● Roof to be done with Galvanised corrugated sheets of 0.63mm thickness conforming to IS 277/Latest having min. 275gsm galvanising, Corrugated prepainted galvanised steel sheets and prepainted galvanised steel sheet ridge cover with thickness of BMT 0.63mm conforming to IS 14246/Latest. Top coat of sheet shall be PVDE/ Sillicon modified Polyester having thickness of 20 micron (Min) and Back coat shall be 	
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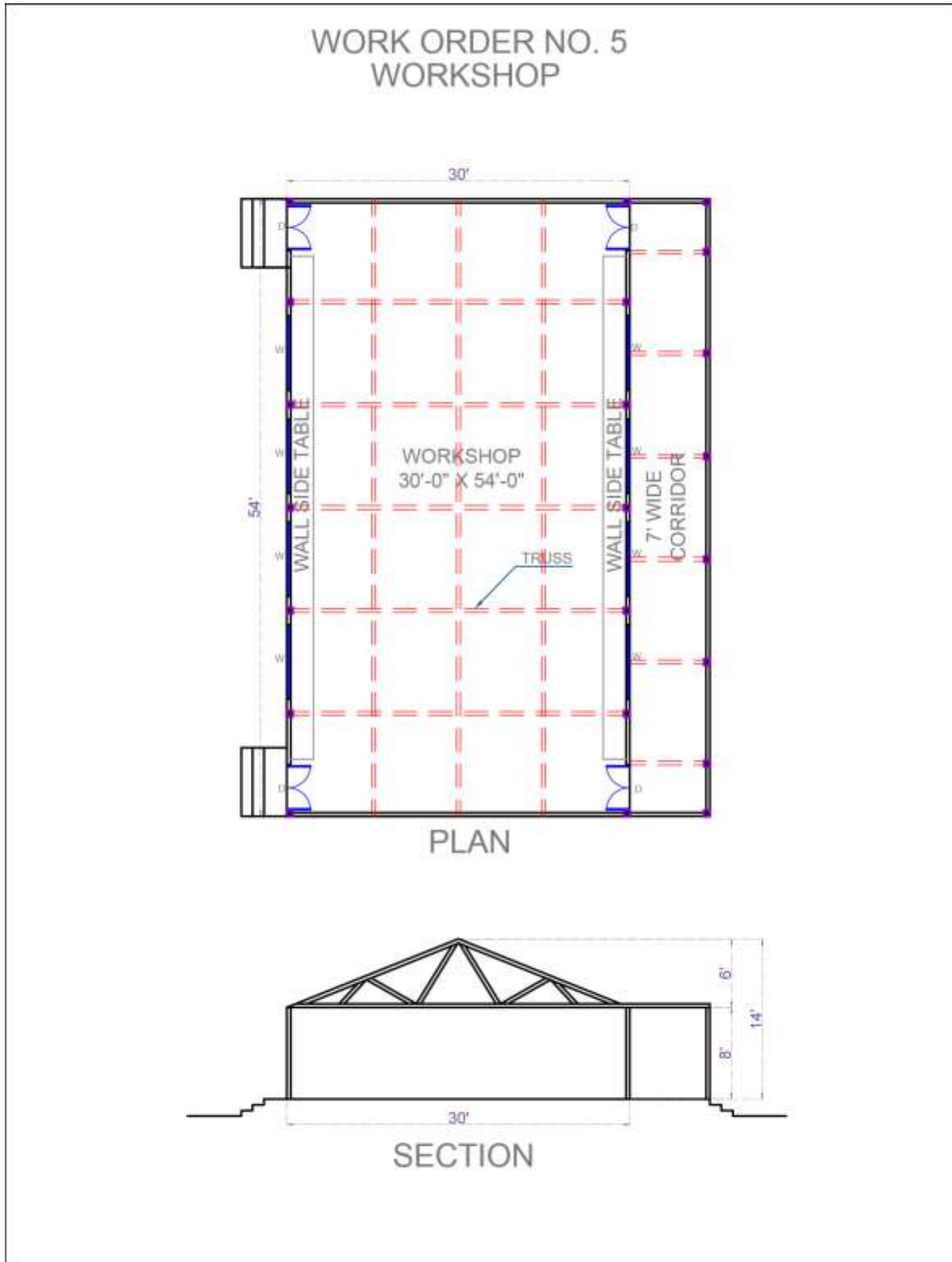
	<p>of Alkaloid epoxy or polyester having thickness of 7 micron (Min). A protection sheet (Polyethylene) shall also be provided on top coat of the sheet for transport. The durability of paint coating shall correspond to class 1 as per table - 1 of IS :14246:2013. (Colour shade of exterior finish shall be approved by the authority). The Seller shall furnish manufacture's test certificate indicating material of coating and suitability of exterior application.</p> <ul style="list-style-type: none"> ● Roof to be laid over Frame work of trusses - columns and purlins fixed using suitable fasteners like 'J' hooks with bitumen washers and nuts/bolts. ● Size of Ridge cover to be fixed on top junction of roof of same material as Roof as per structure design. ● Roof slope 1:4(approx) ● Column to be welded With MS end plate and to be fixed to the foundation bolts through this plate. ● Trusses / purlins to be fixed Using MS end plates and nuts and bolts. ● Truss, columns, Purlin & other structural element sizes would be decided as per structural design of the structure & should be approved by the client before procurement. <p>3. <u>Varandah & Doors</u></p> <ul style="list-style-type: none"> ● Width of verandah 2100mm on the longer side of the structure ● Clear height of verandah 2400 mm ● Verandah roof to be made of GI (continuous provided along the roof of the structure) ● Truss, columns, Purlin & other structural element sizes would be decided as per structural design of the structure & should be approved by the client before procurement. ● All necessary hardware which would be 	
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	<p>used the same will be provided ISI mark</p> <p>4. <u>Windows & Ventilators</u></p> <ul style="list-style-type: none"> ● Windows as per drawings, Quantity- 8 Nos.(2000x2100) each ● All necessary hardware which would be used the same will be provided ISI mark. ● Ventilators as per drawings Quantity- 8 Nos. (2000x300) each ● Frame material of windows/ventilators Made from pressed steel using CR steel as per design requirement. ● Grills for Windows/Ventilators Made from MS square bar of 8mm having equal spacing of 125mm ● Glass sheet for windows/ventilators Of 4mm thickness to be fixed using glass putty <p>5. <u>Electrical Wiring & Fitments</u></p> <ul style="list-style-type: none"> ● Electrical point should be provided on each side wall which caters 40 students. Electrical points/sockets/fan regulators/gang way boxes To be provided ISI mark ● Main switch board Comprising of SP/DP MCBs to be supplied in addition. ● Wiring: 0.75, 1.5, 2.5, 4 mm thickness ● Switch & Socket: 5 Amp. & 16 Amp. ● Cables and PVC conduit Adequate quantity to be provided ● Electrical installation/completeness Seller is fully responsible for wiring etc. (except light fittings) ● Fan regulator Conforming to IS 11037/Latest ● Adequate Lighting for proper legibility & reading for the student should be provided. ● Ceiling fan (09 nos.) or as per requirement of size. ● Exhaust Fan: 8x8 inch (4 Nos.) or as per 	
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	<p>requirement of size.</p> <p>6. <u>Color & Finish</u></p> <ul style="list-style-type: none"> ● Corrugated GI sheets and ridge cover Confg. to IS 277/Latest and have a min. galvanizing coating of 275gsm ● Other GI profiles Confg. to IS 277/Latest and have a min. galvanizing coating of 120gsm ● MS steel members To be supplied with one coat of red oxide primer coating. ● Internal wall panels To be one coat of cement primer and two coats of white oil bound emulsion. ● External wall panels To be one coat of cement primer and two coats of exterior paint. ● Colour/Shade of paint As per buyer's choice. ● Primers to be used As per client choice. ● Paints to be used As per client choice 	
02	<p><u>Modular Lab Furniture</u></p> <p>Product Wall side table with Fixed- Plinth Based Frame.</p> <p><u>Dimesion of Furniture</u></p> <p>Height - 2.5 FT</p> <p>Length - 44 FT x 2</p> <p>Depth - 2 FT</p> <p><u>Specification for Modular Lab furniture</u></p> <p>Completely made of 1.2 mm powder coating cold-rolled steel standard with working average chemical resistance black granite top platform 18(+2)mm thick duly edge polished fitted with shutter & drawer, hydraulic hinge & telescopic channel & 02 stool space, Single side table with PP sink 12 inch</p> <ul style="list-style-type: none"> ● Material of construction : Cold-rolled steel 	

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	<ul style="list-style-type: none">● Fitted with Pullout Tray● 5/15A sockets & switch● Taps: 3 way over the sink. Taps comply with all relevant ISO standards.● Polypropylene sink : Suitable for all standard chemical work solvent usage.	
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TYPICAL PLAN & SECTION FOR THE REFERENCE

Work No. 6

S No.	Product Description	Quantity
01	<p>Prefab Classroom Structure for Botany Department</p> <p>Dimension (Feet): 20Lx20Wx14H without Varandah</p> <ul style="list-style-type: none"> ● Suitability / structural stability / completeness of structures, the structure is intended for use in wind condition of 55m/s, in Seismic zone III and ambient temperature of 0 degree C to 50 degree C. Roof should be structurally stable and suitable to meet severity of these climatic condition. <p><u>1. Design & Material of Wall Panels</u></p> <ul style="list-style-type: none"> ● Wall made in sandwich panel system using 2 Numbers 10 mm thick cement flat sheets / boards (Asbestos free) as skins conforming to IS 14276 Latest as amended upto date, Category 3 Type B of IS 14862:2000 latest as amended up to date. ● Sandwich material - 27 mm gap in between wall skins to be filled with 27mm thick expanded polystyrene core having bulk density of 15 Kg /Cum conforming to IS 4671:1984 type I (Latest) ● Panel Strengthened On all four sides By 'W' shaped pre-profiled steel section made from 0.63 GI steel sheet / coil. ● Cement sheet and expanded polystyrene core to be bonded together using bonding material PVA (polyvinyl acetate) based conforming to IS 4835/Latest, uniformly & fully applied on both sides of the expanded polystyrene cores to ensure proper bonding of the panels. No patching of adhesive will be 	01

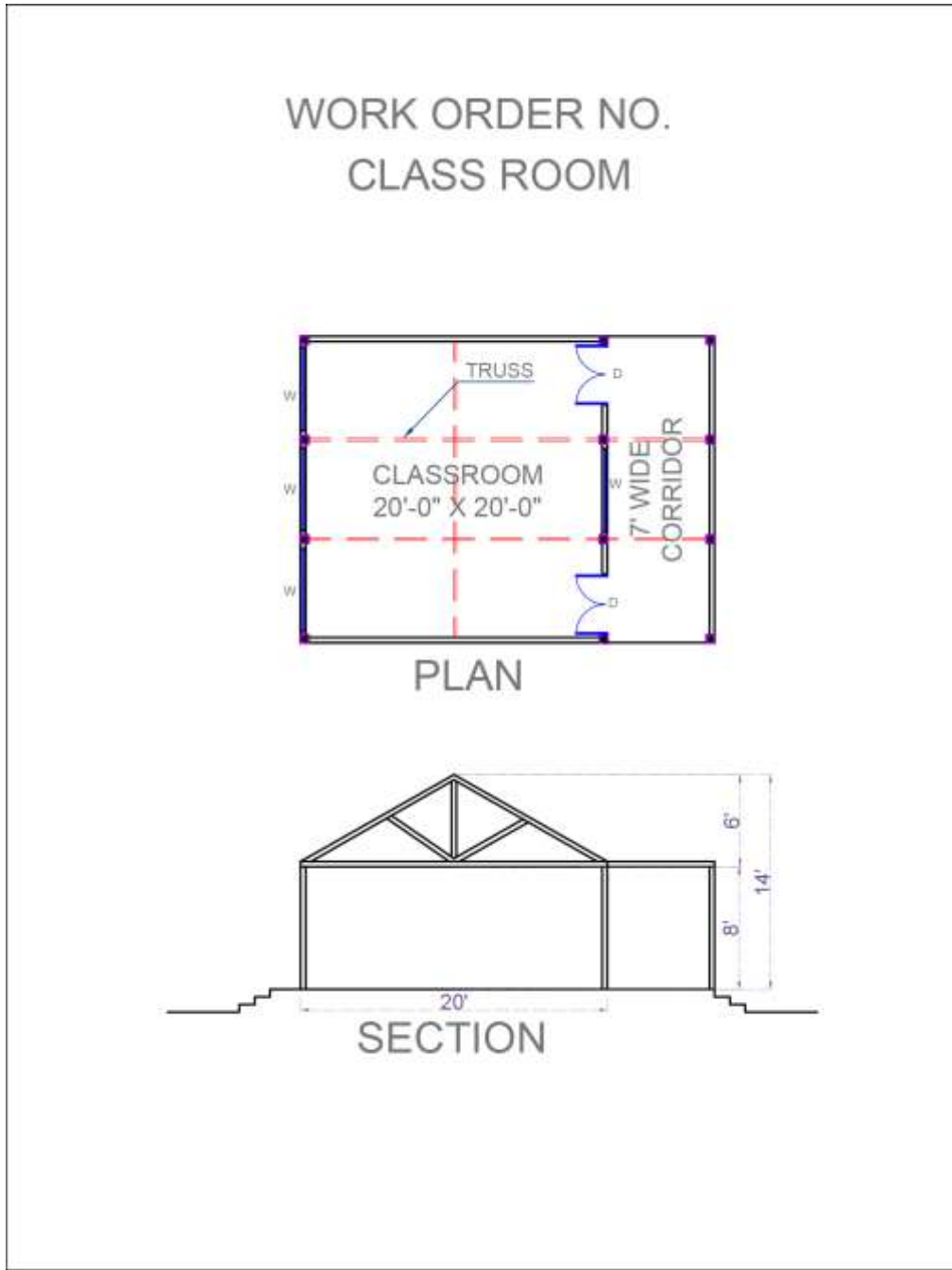
	<p>accepted.</p> <ul style="list-style-type: none"> ● 'U' shaped ground /track size (panels to be inserted one by one made from GI steel sheet / coil. ● Bottom track to be fixed to the concrete platform at plinth level by suitable fasteners screwed into PVC expandable Screw cap. ● Interlocking of wall panel (lengthwise) using cold-formed rectangular hollow steel section. ● Wall corners to be concealed With corner angle made from GI steel sheet / Coil. ● Top of walls to be concealed With 'U' shaped top track made from GI steel sheet / coil. ● Sellers are free to adopt higher sizes/ reinforcement for better fitment or mating of components or for improved stability after the approval from concern authority. <p><u>2. Roof & Roof Frame Work</u></p> <ul style="list-style-type: none"> ● Type of Roof of Prefab Pitched Roof of corrugated galvanized steel sheet. ● Wall height at eaves and central gable - 3000mm at eaves and 4200mm at central gable ● Roof to be done with Galvanised corrugated sheets of 0.63mm thickness conforming to IS 277/Latest having min. 275gsm galvanising, Corrugated prepainted galvanised steel sheets and prepainted galvanised steel sheet ridge cover with thickness of BMT 0.63mm conforming to IS 14246/Latest. Top coat of sheet shall be PVDE/ Sillicon modified Polyester having thickness of 20 micron (Min) and Back coat shall be of Alkaloid epoxy or polyester having thickness of 7 micron (Min). A protection sheet (Polyethylene) shall also be provided on top coat of the sheet for transport. The durability of paint coating 	
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	<p>shall correspond to class 1 as per table - 1 of IS :14246:2013. (Colour shade of exterior finish shall be approved by the authority). The Seller shall furnish manufacture's test certificate indicating material of coating and suitability of exterior application.</p> <ul style="list-style-type: none">● Roof to be laid over Frame work of trusses - columns and purlins fixed using suitable fasteners like 'J' hooks with bitumen washers and nuts/bolts.● Size of Ridge cover to be fixed on top junction of roof of same material as Roof as per structure design.● Roof slope 1:4(approx)● Column to be welded With MS end plate and to be fixed to the foundation bolts through this plate.● Trusses / purlins to be fixed Using MS end plates and nuts and bolts.● Truss, columns, Purlin & other structural element sizes would be decided as per structural design of the structure & should be approved by the client before procurement. <p>3. <u>Varandah & Doors</u></p> <ul style="list-style-type: none">● Width of verandah 2100mm on the longer side of the structure● Clear height of verandah 2400 mm● Verandah roof to be made of GI (continuous provided along the roof of the structure)● Truss, columns, Purlin & other structural element sizes would be decided as per structural design of the structure & should be approved by the client before procurement.● All necessary hardware which would be used the same will be provided ISI mark <p>4. <u>Windows & Ventilators</u></p> <ul style="list-style-type: none">● Windows as per drawings, Quantity- 4 Nos.(2000x2100) each	
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	<ul style="list-style-type: none"> ● All necessary hardware which would be used the same will be provided ISI mark. ● Ventilators as per drawings Quantity- 4 Nos. (2000x300) each ● Frame material of windows/ventilators Made from pressed steel using CR steel as per design requirement. ● Grills for Windows/Ventilators Made from MS square bar of 8mm having equal spacing of 125mm ● Glass sheet for windows/ventilators Of 4mm thickness to be fixed using glass putty <p>5. <u>Electrical Wiring & Fitments</u></p> <ul style="list-style-type: none"> ● Electrical point should be provided on each side wall which caters 40 students. Electrical points/sockets/fan regulators/gang way boxes To be provided ISI mark ● Main switch board Comprising of SP/DP MCBs to be supplied in addition. ● Wiring: 0.75, 1.5, 2.5, 4 mm thickness ● Switch & Socket: 5 Amp. & 16 Amp. ● Cables and PVC conduit Adequate quantity to be provided ● Electrical installation/completeness Seller is fully responsible for wiring etc. (except light fittings) ● Fan regulator Conforming to IS 11037/Latest ● Adequate Lighting for proper legibility & reading for the student should be provided. ● Ceiling fan (04 nos.) or as per requirement of size. ● Exhaust Fan: 8x8 inch (4 Nos.) or as per requirement of size. <p>6. <u>Color & Finish</u></p> <ul style="list-style-type: none"> ● Corrugated GI sheets and ridge cover Confrm. to IS 277/Latest and have a 	
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	<p>min. galvanizing coating of 275gsm</p> <ul style="list-style-type: none">● Other GI profiles Confmg. to IS 277/Latest and have a min. galvanizing coating of 120gsm● MS steel members To be supplied with one coat of red oxide primer coating.● Internal wall panels To be one coat of cement primer and two coats of white oil bound emulsion.● External wall panels To be one coat of cement primer and two coats of exterior paint.● Colour/Shade of paint As per buyer's choice.● Primers to be used As per client choice.● Paints to be used As per client choice	
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TYPICAL PLAN & SECTION FOR THE REFERENCE

Work No. 7

S No.	Product Description	Quantity
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<p>01</p>	<p>Prefab Classroom Structure for Architecture Department</p> <p>Dimension (Feet): 20Lx20Wx14H without Varandah</p> <ul style="list-style-type: none"> ● Suitability / structural stability / completeness of structures, the structure is intended for use in wind condition of 55m/s, in Seismic zone III and ambient temperature of 0 degree C to 50 degree C. Roof should be structurally stable and suitable to meet severity of these climatic condition. <p>1. <u>Design & Material of Wall Panels</u></p> <ul style="list-style-type: none"> ● Wall made in sandwich panel system using 2 Numbers 10 mm thick cement flat sheets / boards (Asbestos free) as skins conforming to IS 14276 Latest as amended upto date, Category 3 Type B of IS 14862:2000 latest as amended up to date. ● Sandwich material - 27 mm gap in between wall skins to be filled with 27mm thick expanded polystyrene core having bulk density of 15 Kg /Cum conforming to IS 4671:1984 type I (Latest) ● Panel Strengthened On all four sides By 'W' shaped pre-profiled steel section made from 0.63 GI steel sheet / coil. ● Cement sheet and expanded polystyrene core to be bonded together using bonding material PVA (polyvinyl acetate) based conforming to IS 4835/Latest, uniformly & fully applied on both sides of the expanded polystyrene cores to ensure proper bonding of the panels. No patching of adhesive will be accepted. ● 'U' shaped ground /track size (panels to be inserted one by one made from GI steel sheet / coil. 	<p>01</p>
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	<ul style="list-style-type: none"> ● Bottom track to be fixed to the concrete platform at plinth level by suitable fasteners screwed into PVC expandable Screw cap. ● Interlocking of wall panel (lengthwise) using cold-formed rectangular hollow steel section. ● Wall corners to be concealed With corner angle made from GI steel sheet / Coil. ● Top of walls to be concealed With 'U' shaped top track made from GI steel sheet / coil. ● Sellers are free to adopt higher sizes/ reinforcement for better fitment or mating of components or for improved stability after the approval from concern authority. <p>2. <u>Roof & Roof Frame Work</u></p> <ul style="list-style-type: none"> ● Type of Roof of Prefab Pitched Roof of corrugated galvanized steel sheet. ● Wall height at eaves and central gable - 3000mm at eaves and 4200mm at central gable ● Roof to be done with Galvanised corrugated sheets of 0.63mm thickness conforming to IS 277/Latest having min. 275gsm galvanising, Corrugated prepainted galvanised steel sheets and prepainted galvanised steel sheet ridge cover with thickness of BMT 0.63mm conforming to IS 14246/Latest. Top coat of sheet shall be PVDE/ Sillicon modified Polyester having thickness of 20 micron (Min) and Back coat shall be of Alkaloid epoxy or polyester having thickness of 7 micron (Min). A protection sheet (Polyethylene) shall also be provided on top coat of the sheet for transport. The durability of paint coating shall correspond to class 1 as per table - 1 of IS :14246:2013. (Colour shade of exterior finish shall be approved by the authority). The Seller shall furnish manufacture's test certificate indicating 	
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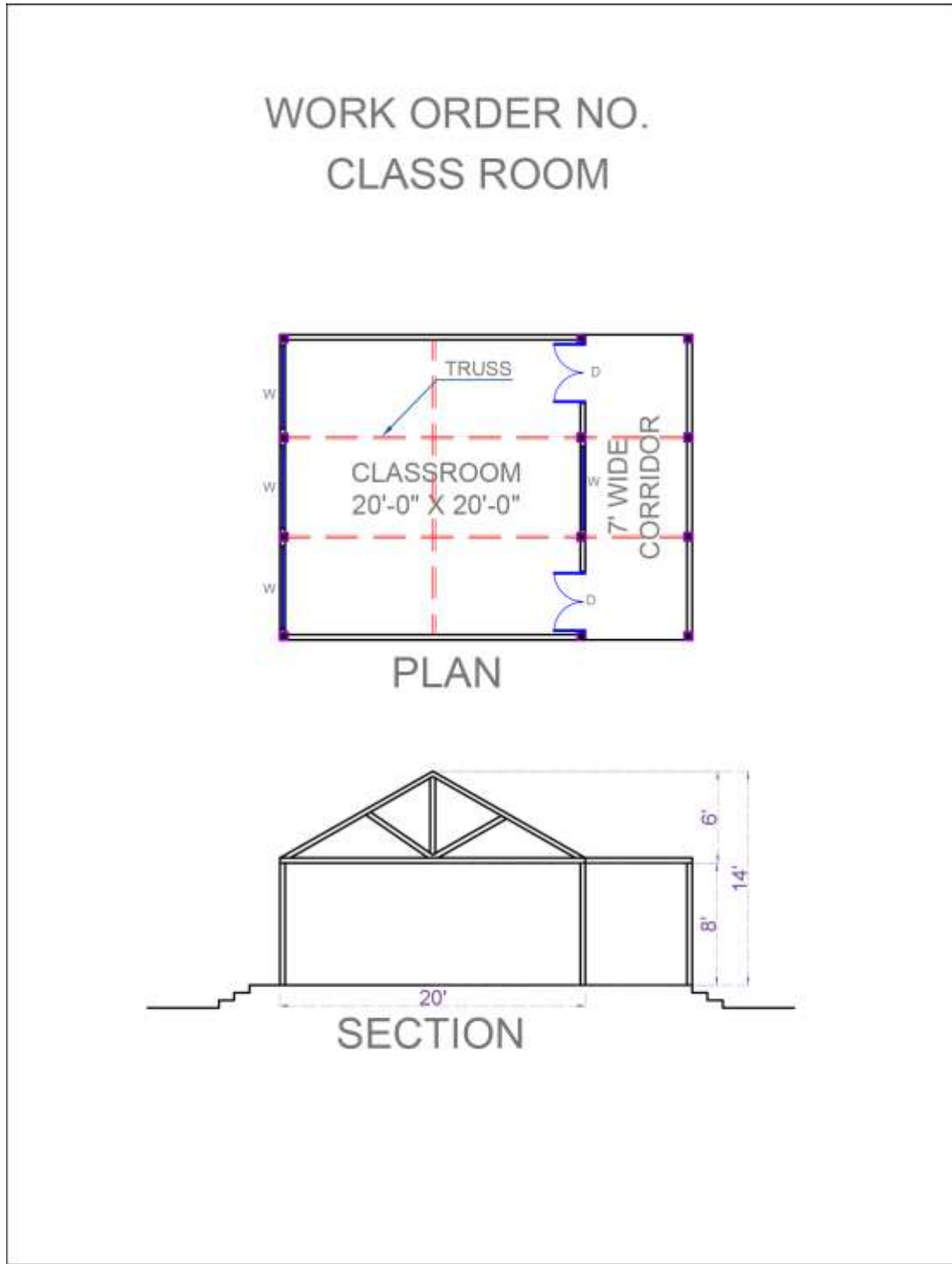
	<p>material of coating and suitability of exterior application.</p> <ul style="list-style-type: none"> ● Roof to be laid over Frame work of trusses - columns and purlins fixed using suitable fasteners like 'J' hooks with bitumen washers and nuts/bolts. ● Size of Ridge cover to be fixed on top junction of roof of same material as Roof as per structure design. ● Roof slope 1:4(approx) ● Column to be welded With MS end plate and to be fixed to the foundation bolts through this plate. ● Trusses / purlins to be fixed Using MS end plates and nuts and bolts. ● Truss, columns, Purlin & other structural element sizes would be decided as per structural design of the structure & should be approved by the client before procurement. <p><u>3. Varandah & Doors</u></p> <ul style="list-style-type: none"> ● Width of verandah 2100mm on the longer side of the structure ● Clear height of verandah 2400 mm ● Verandah roof to be made of GI (continuous provided along the roof of the structure) ● Truss, columns, Purlin & other structural element sizes would be decided as per structural design of the structure & should be approved by the client before procurement. ● All necessary hardware which would be used the same will be provided ISI mark <p><u>4. Windows & Ventilators</u></p> <ul style="list-style-type: none"> ● Windows as per drawings, Quantity- 4 Nos.(2000x2100) each ● All necessary hardware which would be used the same will be provided ISI mark. ● Ventilators as per drawings Quantity- 4 Nos. (2000x300) each 	
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	<ul style="list-style-type: none"> ● Frame material of windows/ventilators Made from pressed steel using CR steel as per design requirement. ● Grills for Windows/Ventilators Made from MS square bar of 8mm having equal spacing of 125mm ● Glass sheet for windows/ventilators Of 4mm thickness to be fixed using glass putty <p>5. <u>Electrical Wiring & Fitments</u></p> <ul style="list-style-type: none"> ● Electrical point should be provided on each side wall which caters 40 students. Electrical points/sockets/fan regulators/gang way boxes To be provided ISI mark ● Main switch board Comprising of SP/DP MCBs to be supplied in addition. ● Wiring: 0.75, 1.5, 2.5, 4 mm thickness ● Switch & Socket: 5 Amp. & 16 Amp. ● Cables and PVC conduit Adequate quantity to be provided ● Electrical installation/completeness Seller is fully responsible for wiring etc. (except light fittings) ● Fan regulator Conforming to IS 11037/Latest ● Adequate Lighting for proper legibility & reading for the student should be provided. ● Ceiling fan (04 nos.) or as per requirement of size. ● Exhaust Fan: 8x8 inch (4 Nos.) or as per requirement of size. <p>6. <u>Color & Finish</u></p> <ul style="list-style-type: none"> ● Corrugated GI sheets and ridge cover Confmg. to IS 277/Latest and have a min. galvanizing coating of 275gsm ● Other GI profiles Confmg. to IS 277/Latest and have a min. galvanizing coating of 120gsm 	
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	<ul style="list-style-type: none">● MS steel members To be supplied with one coat of red oxide primer coating.● Internal wall panels To be one coat of cement primer and two coats of white oil bound emulsion.● External wall panels To be one coat of cement primer and two coats of exterior paint.● Colour/Shade of paint As per buyer's choice.● Primers to be used As per client choice.● Paints to be used As per client choice	
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TYPICAL PLAN & SECTION FOR THE REFERENCE

Work No. 8

S No.	Product Description	Quantity
01	Prefab workshop Structure for Tannery Department	03

	<p>Dimension (Feet): 28Lx22Wx14H without Varandah</p> <ul style="list-style-type: none"> ● Suitability / structural stability / completeness of structures, the structure is intended for use in wind condition of 55m/s, in Seismic zone III and ambient temperature of 0 degree C to 50 degree C. Roof should be structurally stable and suitable to meet severity of these climatic condition. <p>1. <u>Design & Material of Wall Panels</u></p> <ul style="list-style-type: none"> ● Wall made in sandwich panel system using 2 Numbers 10 mm thick cement flat sheets / boards (Asbestos free) as skins conforming to IS 14276 Latest as amended upto date, Category 3 Type B of IS 14862:2000 latest as amended up to date. ● Sandwich material - 27 mm gap in between wall skins to be filled with 27mm thick expanded polystyrene core having bulk density of 15 Kg /Cum conforming to IS 4671:1984 type I (Latest) ● Panel Strengthened On all four sides By 'W' shaped pre-profiled steel section made from 0.63 GI steel sheet / coil. ● Cement sheet and expanded polystyrene core to be bonded together using bonding material PVA (polyvinyl acetate) based conforming to IS 4835/Latest, uniformly & fully applied on both sides of the expanded polystyrene cores to ensure proper bonding of the panels. No patching of adhesive will be accepted. ● 'U' shaped ground /track size (panels to be inserted one by one made from GI steel sheet / coil. ● Bottom track to be fixed to the concrete platform at plinth level by suitable fasteners screwed into PVC expandable Screw cap. ● Interlocking of wall panel (lengthwise) 	
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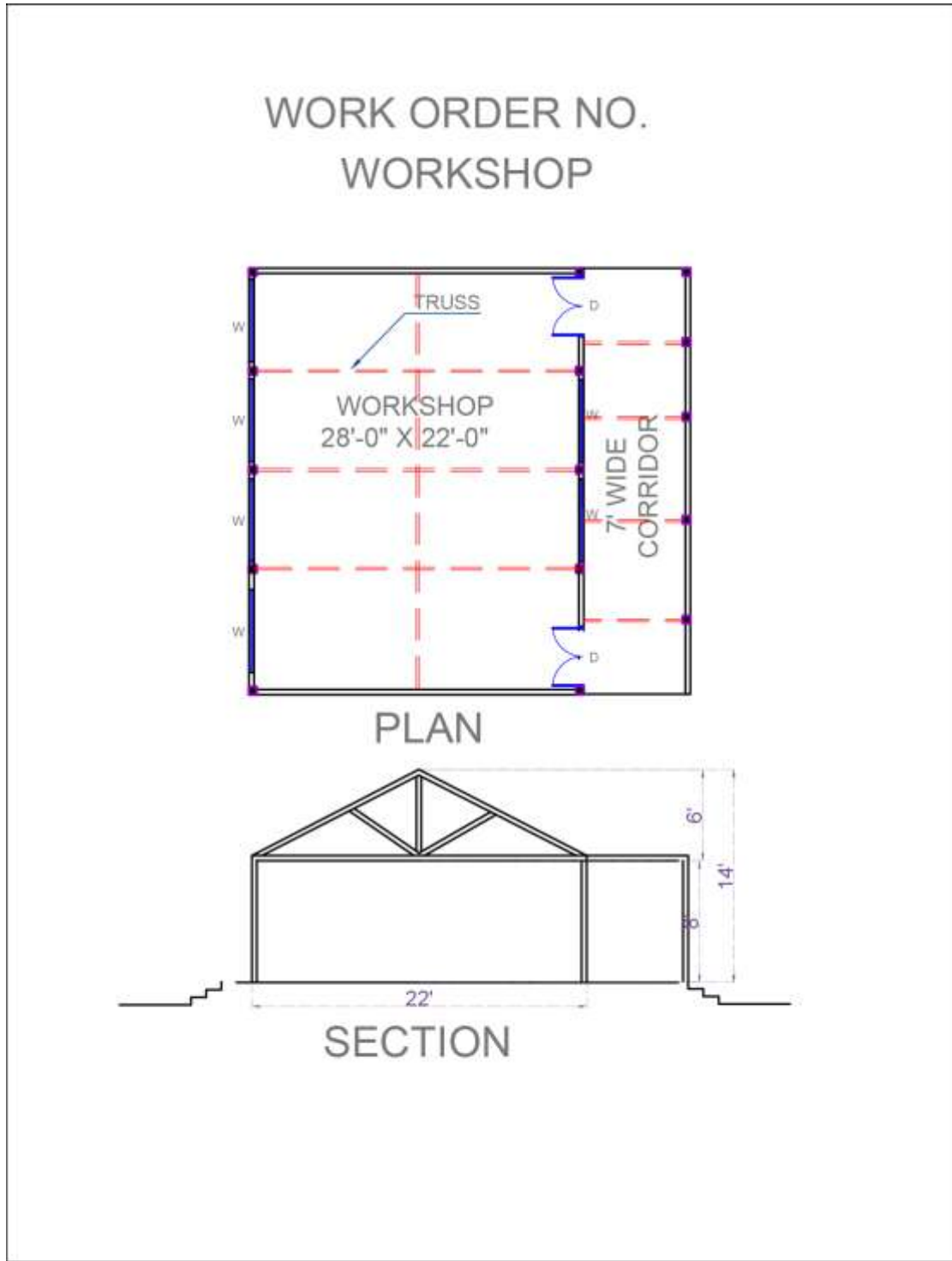
	<p>using cold-formed rectangular hollow steel section.</p> <ul style="list-style-type: none"> ● Wall corners to be concealed With corner angle made from GI steel sheet / Coil. ● Top of walls to be concealed With 'U' shaped top track made from GI steel sheet / coil. ● Sellers are free to adopt higher sizes/ reinforcement for better fitment or mating of components or for improved stability after the approval from concern authority. <p>2. <u>Roof & Roof Frame Work</u></p> <ul style="list-style-type: none"> ● Type of Roof of Prefab Pitched Roof of corrugated galvanized steel sheet. ● Wall height at eaves and central gable - 3000mm at eaves and 4200mm at central gable ● Roof to be done with Galvanised corrugated sheets of 0.63mm thickness conforming to IS 277/Latest having min. 275gsm galvanising, Corrugated prepainted galvanised steel sheets and prepainted galvanised steel sheet ridge cover with thickness of BMT 0.63mm conforming to IS 14246/Latest. Top coat of sheet shall be PVDE/ Sillicon modified Polyester having thickness of 20 micron (Min) and Back coat shall be of Alkaloid epoxy or polyester having thickness of 7 micron (Min). A protection sheet (Polyethylene) shall also be provided on top coat of the sheet for transport. The durability of paint coating shall correspond to class 1 as per table - 1 of IS :14246:2013. (Colour shade of exterior finish shall be approved by the authority). The Seller shall furnish manufacture's test certificate indicating material of coating and suitability of exterior application. ● Roof to be laid over Frame work of trusses - columns and purlins fixed using suitable fasteners like 'J' hooks with bitumen washers and nuts/bolts. 	
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	<ul style="list-style-type: none"> ● Size of Ridge cover to be fixed on top junction of roof of same material as Roof as per structure design. ● Roof slope 1:4(approx) ● Column to be welded With MS end plate and to be fixed to the foundation bolts through this plate. ● Trusses / purlins to be fixed Using MS end plates and nuts and bolts. ● Truss, columns, Purlin & other structural element sizes would be decided as per structural design of the structure & should be approved by the client before procurement. <p>3. <u>Varandah & Doors</u></p> <ul style="list-style-type: none"> ● Width of verandah 2100mm on the longer side of the structure ● Clear height of verandah 2400 mm ● Verandah roof to be made of GI (continuous provided along the roof of the structure) ● Truss, columns, Purlin & other structural element sizes would be decided as per structural design of the structure & should be approved by the client before procurement. ● All necessary hardware which would be used the same will be provided ISI mark <p>4. <u>Windows & Ventilators</u></p> <ul style="list-style-type: none"> ● Windows as per drawings, Quantity- 6 Nos.(2000x2100) each ● All necessary hardware which would be used the same will be provided ISI mark. ● Ventilators as per drawings Quantity- 6 Nos. (2000x300) each ● Frame material of windows/ventilators Made from pressed steel using CR steel as per design requirement. ● Grills for Windows/Ventilators Made from MS square bar of 8mm having equal spacing of 125mm 	
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	<ul style="list-style-type: none"> ● Glass sheet for windows/ventilators Of 4mm thickness to be fixed using glass putty <p><u>5. Electrical Wiring & Fitments</u></p> <ul style="list-style-type: none"> ● Electrical point should be provided on each side wall which caters 40 students. Electrical points/sockets/fan regulators/gang way boxes To be provided ISI mark ● Main switch board Comprising of SP/DP MCBs to be supplied in addition. ● Wiring: 0.75, 1.5, 2.5, 4 mm thickness ● Switch & Socket: 5 Amp. & 16 Amp. ● Cables and PVC conduit Adequate quantity to be provided ● Electrical installation/completeness Seller is fully responsible for wiring etc. (except light fittings) ● Fan regulator Conforming to IS 11037/Latest ● Adequate Lighting for proper legibility & reading for the student should be provided. ● Ceiling fan (09 nos.) or as per requirement of size. ● Exhaust Fan: 8x8 inch (4 Nos.) or as per requirement of size. <p><u>6. Color & Finish</u></p> <ul style="list-style-type: none"> ● Corrugated GI sheets and ridge cover Confmg. to IS 277/Latest and have a min. galvanizing coating of 275gsm ● Other GI profiles Confmg. to IS 277/Latest and have a min. galvanizing coating of 120gsm ● MS steel members To be supplied with one coat of red oxide primer coating. ● Internal wall panels To be one coat of cement primer and two coats of white oil bound emulsion. ● External wall panels To be one coat of 	
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	<p>cement primer and two coats of exterior paint.</p> <ul style="list-style-type: none"> ● Colour/Shade of paint As per buyer's choice. ● Primers to be used As per client choice. ● Paints to be used As per client choice 	
02	<p><u>Modular Lab Furniture</u></p> <p>Product Wall side table with Fixed- Plinth Based Frame.</p> <p><u>Dimesion of Furniture</u></p> <p>Height - 2.5 FT</p> <p>Length - 18 FT x 2</p> <p>Depth - 2 FT</p> <p><u>Specification for Modular Lab furniture</u></p> <p>Completely made of 1.2 mm powder coating cold-rolled steel standard with working average chemical resistance black granite top platform 18(+2)mm thick duly edge polished fitted with shutter & drawer, hydraulic hinge & telescopic channel & 02 stool space, Single side table with PP sink 12 inch</p> <ul style="list-style-type: none"> ● Material of construction : Cold-rolled steel ● Fitted with Pullout Tray ● 5/15A sockets & switch ● Taps: 3 way over the sink. Taps comply with all relevant ISO standards. ● Polypropylene sink : Suitable for all standard chemical work solvent usage. 	



TYPICAL PLAN & SECTION FOR THE REFERENCE

Work No. 10

S No.	Product Description	Quantity
01	<p>Prefab Site Office Structure for Agriculture Department</p> <p>Dimension (Feet): 34Lx18Wx14H without Varandah</p> <ul style="list-style-type: none"> ● Suitability / structural stability / completeness of structures, the structure is intended for use in wind condition of 55m/s, in Seismic zone III and ambient temperature of 0 degree C to 50 degree C. Roof should be structurally stable and suitable to meet severity of these climatic condition. <p>1. <u>Design & Material of Wall Panels</u></p> <ul style="list-style-type: none"> ● Wall made in sandwich panel system using 2 Numbers 10 mm thick cement flat sheets / boards (Asbestos free) as skins conforming to IS 14276 Latest as amended upto date, Category 3 Type B of IS 14862:2000 latest as amended up to date. ● Sandwich material - 27 mm gap in between wall skins to be filled with 27mm thick expanded polystyrene core having bulk density of 15 Kg /Cum conforming to IS 4671:1984 type I (Latest) ● Panel Strengthened On all four sides By 'W' shaped pre-profiled steel section made from 0.63 GI steel sheet / coil. ● Cement sheet and expanded polystyrene core to be bonded together using bonding material PVA (polyvinyl acetate) based conforming to IS 4835/Latest, uniformly & fully applied on both sides of the expanded polystyrene cores to ensure proper bonding of the panels. No patching of adhesive will be accepted. ● 'U' shaped ground /track size (panels to be inserted one by one made from GI 	03

	<p>steel sheet / coil.</p> <ul style="list-style-type: none"> ● Bottom track to be fixed to the concrete platform at plinth level by suitable fasteners screwed into PVC expandable Screw cap. ● Interlocking of wall panel (lengthwise) using cold-formed rectangular hollow steel section. ● Wall corners to be concealed With corner angle made from GI steel sheet / Coil. ● Top of walls to be concealed With 'U' shaped top track made from GI steel sheet / coil. ● Sellers are free to adopt higher sizes/ reinforcement for better fitment or mating of components or for improved stability after the approval from concern authority. <p><u>2. Roof & Roof Frame Work</u></p> <ul style="list-style-type: none"> ● Type of Roof of Prefab Pitched Roof of corrugated galvanized steel sheet. ● Wall height at eaves and central gable - 3000mm at eaves and 4200mm at central gable ● Roof to be done with Galvanised corrugated sheets of 0.63mm thickness conforming to IS 277/Latest having min. 275gsm galvanising, Corrugated prepainted galvanised steel sheets and prepainted galvanised steel sheet ridge cover with thickness of BMT 0.63mm conforming to IS 14246/Latest. Top coat of sheet shall be PVDE/ Sillicon modified Polyester having thickness of 20 micron (Min) and Back coat shall be of Alkaloid epoxy or polyester having thickness of 7 micron (Min). A protection sheet (Polyethylene) shall also be provided on top coat of the sheet for transport. The durability of paint coating shall correspond to class 1 as per table - 1 of IS :14246:2013. (Colour shade of exterior finish shall be approved by the 	
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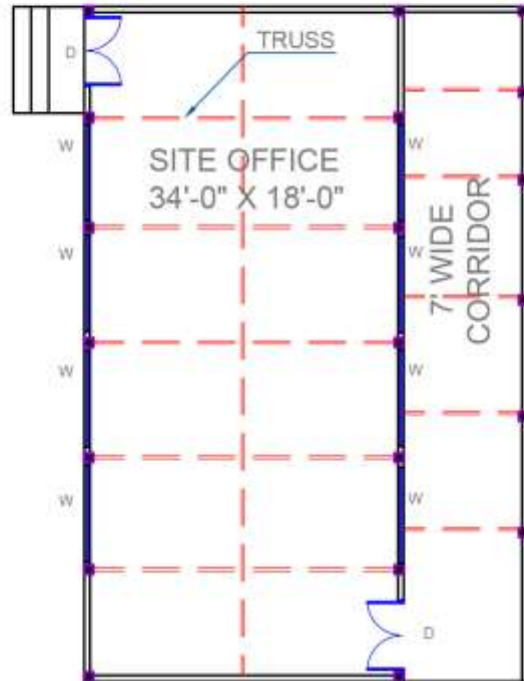
	<p>authority). The Seller shall furnish manufacture's test certificate indicating material of coating and suitability of exterior application.</p> <ul style="list-style-type: none"> ● Roof to be laid over Frame work of trusses - columns and purlins fixed using suitable fasteners like 'J' hooks with bitumen washers and nuts/bolts. ● Size of Ridge cover to be fixed on top junction of roof of same material as Roof as per structure design. ● Roof slope 1:4(approx) ● Column to be welded With MS end plate and to be fixed to the foundation bolts through this plate. ● Trusses / purlins to be fixed Using MS end plates and nuts and bolts. ● Truss, columns, Purlin & other structural element sizes would be decided as per structural design of the structure & should be approved by the client before procurement. <p>3. <u>Varandah & Doors</u></p> <ul style="list-style-type: none"> ● Width of verandah 2100mm on the longer side of the structure ● Clear height of verandah 2400 mm ● Verandah roof to be made of GI (continuous provided along the roof of the structure) ● Truss, columns, Purlin & other structural element sizes would be decided as per structural design of the structure & should be approved by the client before procurement. ● All necessary hardware which would be used the same will be provided ISI mark <p>4. <u>Windows & Ventilators</u></p> <ul style="list-style-type: none"> ● Windows as per drawings, Quantity- 8 Nos.(2000x2100) each ● All necessary hardware which would be used the same will be provided ISI mark. ● Ventilators as per drawings Quantity- 8 	
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	<p>Nos. (2000x300) each</p> <ul style="list-style-type: none"> ● Frame material of windows/ventilators Made from pressed steel using CR steel as per design requirement. ● Grills for Windows/Ventilators Made from MS square bar of 8mm having equal spacing of 125mm ● Glass sheet for windows/ventilators Of 4mm thickness to be fixed using glass putty <p>5. <u>Electrical Wiring & Fitments</u></p> <ul style="list-style-type: none"> ● Electrical point should be provided on each side wall which caters 40 students. Electrical points/sockets/fan regulators/gang way boxes To be provided ISI mark ● Main switch board Comprising of SP/DP MCBs to be supplied in addition. ● Wiring: 0.75, 1.5, 2.5, 4 mm thickness ● Switch & Socket: 5 Amp. & 16 Amp. ● Cables and PVC conduit Adequate quantity to be provided ● Electrical installation/completeness Seller is fully responsible for wiring etc. (except light fittings) ● Fan regulator Conforming to IS 11037/Latest ● Adequate Lighting for proper legibility & reading for the student should be provided. ● Ceiling fan (04 nos.) or as per requirement of size. ● Exhaust Fan: 8x8 inch (4 Nos.) or as per requirement of size. <p>6. <u>Color & Finish</u></p> <ul style="list-style-type: none"> ● Corrugated GI sheets and ridge cover Confmg. to IS 277/Latest and have a min. galvanizing coating of 275gsm ● Other GI profiles Confmg. to IS 277/Latest and have a min. galvanizing 	
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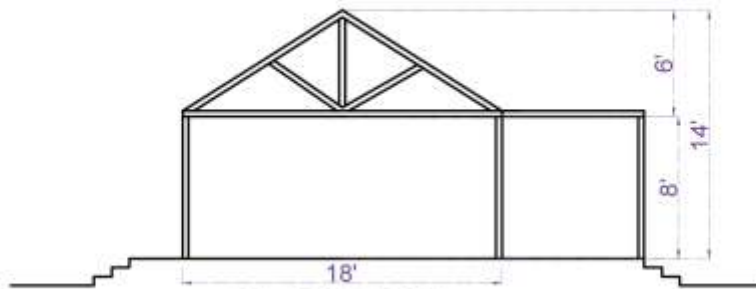
RFP for “Design, Supply, Construction, Installation of Prefab Structures in DEI Campus in Agra City (U.P) on EPC Contract mode” Second Call

	<p>coating of 120gsm</p> <ul style="list-style-type: none">● MS steel members To be supplied with one coat of red oxide primer coating.● Internal wall panels To be one coat of cement primer and two coats of white oil bound emulsion.● External wall panels To be one coat of cement primer and two coats of exterior paint.● Colour/Shade of paint As per buyer's choice.● Primers to be used As per client choice.● Paints to be used As per client choice	
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WORK ORDER NO. 10
SITE OFFICE



PLAN



SECTION

TYPICAL PLAN & SECTION FOR THE REFERENCE

Work No. 11

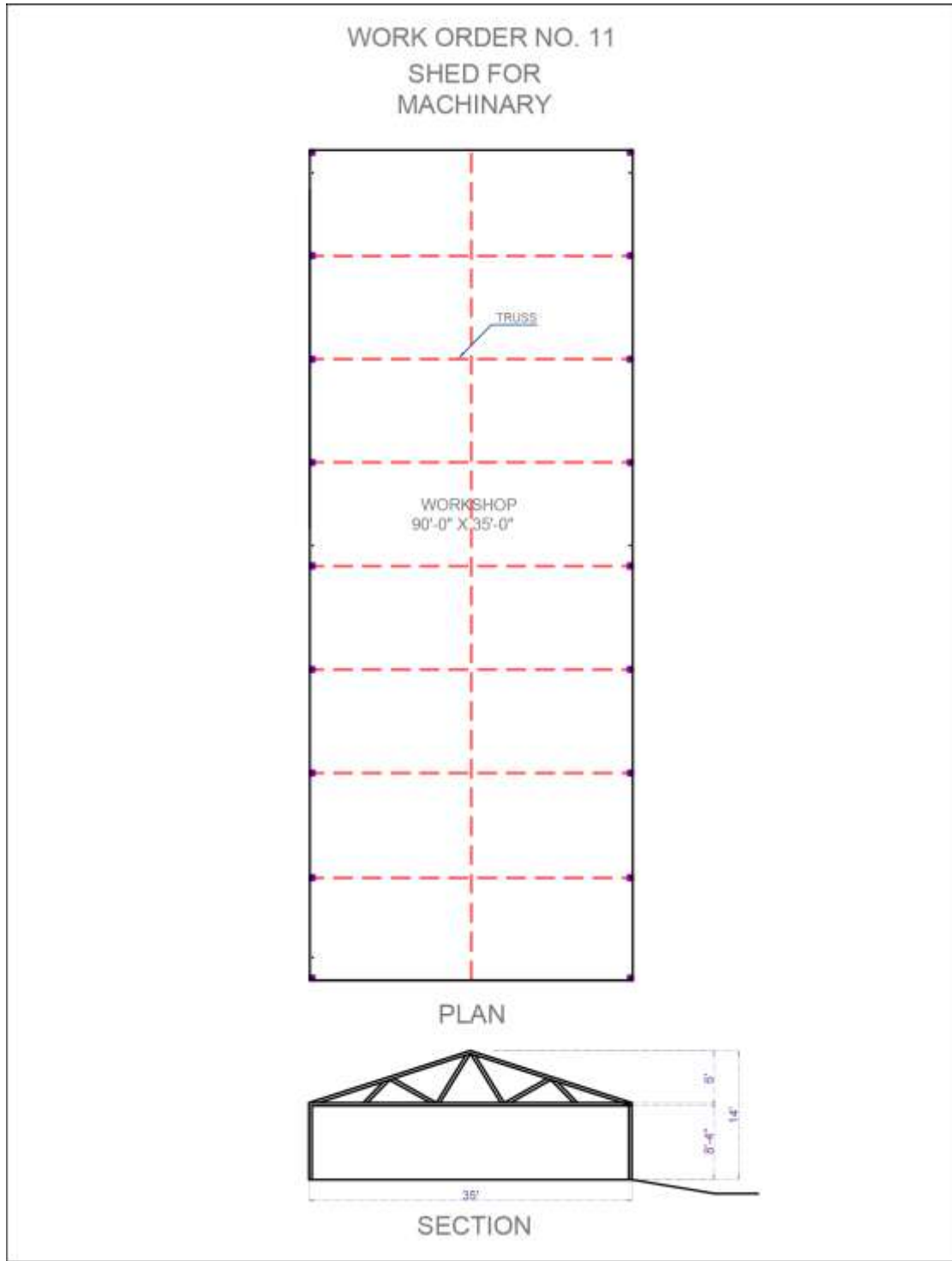
S No.	Product Description	Quantity
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01	<p>Prefab Shed for Agriculture Machinery Structure for Agriculture Department</p> <p>Dimension (Feet): 90Lx35Wx14H</p> <ul style="list-style-type: none"> ● Suitability / structural stability / completeness of structures, the structure is intended for use in wind condition of 55m/s, in Seismic zone III and ambient temperature of 0 degree C to 50 degree C. Roof should be structurally stable and suitable to meet severity of these climatic condition. <p><u>1. Roof & Roof Frame Work</u></p> <ul style="list-style-type: none"> ● Type of Roof of Prefab Pitched Roof of corrugated galvanized steel sheet. ● Wall height at eaves and central gable - 3000mm at eaves and 4200mm at central gable ● Roof to be done with Galvanised corrugated sheets of 0.63mm thickness conforming to IS 277/Latest having min. 275gsm galvanising, Corrugated prepainted galvanised steel sheets and prepainted galvanised steel sheet ridge cover with thickness of BMT 0.63mm conforming to IS 14246/Latest. Top coat of sheet shall be PVDE/ Sillicon modified Polyester having thickness of 20 micron (Min) and Back coat shall be of Alkaloid epoxy or polyester having thickness of 7 micron (Min). A protection sheet (Polyethylene) shall also be provided on top coat of the sheet for transport. The durability of paint coating shall correspond to class 1 as per table - 1 of IS :14246:2013. (Colour shade of exterior finish shall be approved by the authority). The Seller shall furnish manufacture's test certificate indicating material of coating and suitability of exterior application. ● Roof to be laid over Frame work of trusses - columns and purlins fixed 	01
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RFP for “Design, Supply, Construction, Installation of Prefab Structures in DEI Campus in Agra City (U.P) on EPC Contract mode” Second Call

	<p>using suitable fasteners like 'J' hooks with bitumen washers and nuts/bolts.</p> <ul style="list-style-type: none">● Size of Ridge cover to be fixed on top junction of roof of same material as Roof as per structure design.● Roof slope 1:4(approx)● Column to be welded With MS end plate and to be fixed to the foundation bolts through this plate.● Trusses / purlins to be fixed Using MS end plates and nuts and bolts.● Truss, columns, Purlin & other structural element sizes would be decided as per structural design of the structure & should be approved by the client before procurement.	
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RFP for "Design, Supply, Construction, Installation of Prefab Structures in DEI Campus in Agra City (U.P) on EPC Contract mode" Second Call



TYPICAL PLAN & SECTION FOR THE REFERENCE

Work No. 12

S No.	Product Description	Quantity
01	<p>Prefab Conference & Staff room Structure for Agriculture Department</p> <p>Dimension (Feet): 50Lx31Wx14H without Varandah</p> <ul style="list-style-type: none"> ● Suitability / structural stability / completeness of structures, the structure is intended for use in wind condition of 55m/s, in Seismic zone III and ambient temperature of 0 degree C to 50 degree C. Roof should be structurally stable and suitable to meet severity of these climatic condition. <p>1. <u>Design & Material of Wall Panels</u></p> <ul style="list-style-type: none"> ● Wall made in sandwich panel system using 2 Numbers 10 mm thick cement flat sheets / boards (Asbestos free) as skins conforming to IS 14276 Latest as amended upto date, Category 3 Type B of IS 14862:2000 latest as amended up to date. ● Sandwich material - 27 mm gap in between wall skins to be filled with 27mm thick expanded polystyrene core having bulk density of 15 Kg /Cum conforming to IS 4671:1984 type I (Latest) ● Panel Strengthened On all four sides By 'W' shaped pre-profiled steel section made from 0.63 GI steel sheet / coil. ● Cement sheet and expanded polystyrene core to be bonded together using bonding material PVA (polyvinyl acetate) based conforming to IS 4835/Latest, uniformly & fully applied on both sides of the expanded polystyrene cores to ensure proper bonding of the panels. No patching of adhesive will be accepted. ● 'U' shaped ground /track size (panels to 	01

	<p>be inserted one by one made from GI steel sheet / coil.</p> <ul style="list-style-type: none"> ● Bottom track to be fixed to the concrete platform at plinth level by suitable fasteners screwed into PVC expandable Screw cap. ● Interlocking of wall panel (lengthwise) using cold-formed rectangular hollow steel section. ● Wall corners to be concealed With corner angle made from GI steel sheet / Coil. ● Top of walls to be concealed With 'U' shaped top track made from GI steel sheet / coil. ● Sellers are free to adopt higher sizes/ reinforcement for better fitment or mating of components or for improved stability after the approval from concern authority. <p><u>2. Roof & Roof Frame Work</u></p> <ul style="list-style-type: none"> ● Type of Roof of Prefab Pitched Roof of corrugated galvanized steel sheet. ● Wall height at eaves and central gable - 3000mm at eaves and 4200mm at central gable ● Roof to be done with Galvanised corrugated sheets of 0.63mm thickness conforming to IS 277/Latest having min. 275gsm galvanising, Corrugated prepainted galvanised steel sheets and prepainted galvanised steel sheet ridge cover with thickness of BMT 0.63mm conforming to IS 14246/Latest. Top coat of sheet shall be PVDE/ Sillicon modified Polyester having thickness of 20 micron (Min) and Back coat shall be of Alkaloid epoxy or polyester having thickness of 7 micron (Min). A protection sheet (Polyethylene) shall also be provided on top coat of the sheet for transport. The durability of paint coating shall correspond to class 1 as per table - 1 of IS :14246:2013. (Colour shade of 	
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	<p>exterior finish shall be approved by the authority). The Seller shall furnish manufacture's test certificate indicating material of coating and suitability of exterior application.</p> <ul style="list-style-type: none"> ● Roof to be laid over Frame work of trusses - columns and purlins fixed using suitable fasteners like 'J' hooks with bitumen washers and nuts/bolts. ● Size of Ridge cover to be fixed on top junction of roof of same material as Roof as per structure design. ● Roof slope 1:4(approx) ● Column to be welded With MS end plate and to be fixed to the foundation bolts through this plate. ● Trusses / purlins to be fixed Using MS end plates and nuts and bolts. ● Truss, columns, Purlin & other structural element sizes would be decided as per structural design of the structure & should be approved by the client before procurement. <p>3. <u>Varandah & Doors</u></p> <ul style="list-style-type: none"> ● Width of verandah 2100mm on the longer side of the structure ● Clear height of verandah 2400 mm ● Verandah roof to be made of GI (continuous provided along the roof of the structure) ● Truss, columns, Purlin & other structural element sizes would be decided as per structural design of the structure & should be approved by the client before procurement. ● All necessary hardware which would be used the same will be provided ISI mark <p>4. <u>Windows & Ventilators</u></p> <ul style="list-style-type: none"> ● Windows as per drawings, Quantity- 8 Nos.(2000x2100) each ● All necessary hardware which would be used the same will be provided ISI mark. 	
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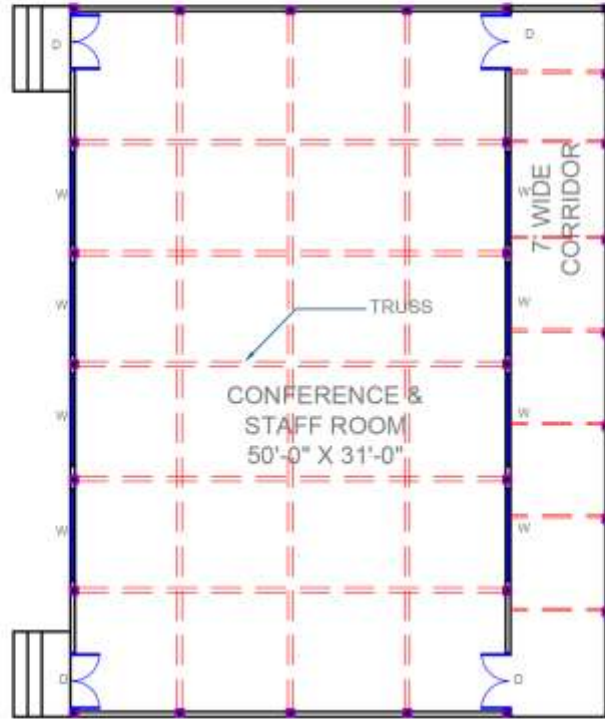
RFP for “Design, Supply, Construction, Installation of Prefab Structures in DEI Campus in Agra City (U.P) on EPC Contract mode” Second Call

	<ul style="list-style-type: none"> ● Ventilators as per drawings Quantity- 8 Nos. (2000x300) each ● Frame material of windows/ventilators Made from pressed steel using CR steel as per design requirement. ● Grills for Windows/Ventilators Made from MS square bar of 8mm having equal spacing of 125mm ● Glass sheet for windows/ventilators Of 4mm thickness to be fixed using glass putty <p><u>5. Electrical Wiring & Fitments</u></p> <ul style="list-style-type: none"> ● Electrical point should be provided on each side wall which caters 40 students. Electrical points/sockets/fan regulators/gang way boxes To be provided ISI mark ● Main switch board Comprising of SP/DP MCBs to be supplied in addition. ● Wiring: 0.75, 1.5, 2.5, 4 mm thickness ● Switch & Socket: 5 Amp. & 16 Amp. ● Cables and PVC conduit Adequate quantity to be provided ● Electrical installation/completeness Seller is fully responsible for wiring etc. (except light fittings) ● Fan regulator Conforming to IS 11037/Latest ● Adequate Lighting for proper legibility & reading for the student should be provided. ● Ceiling fan (04 nos.) or as per requirement of size. ● Exhaust Fan: 8x8 inch (4 Nos.) or as per requirement of size. <p><u>6. Color & Finish</u></p> <ul style="list-style-type: none"> ● Corrugated GI sheets and ridge cover Confg. to IS 277/Latest and have a min. galvanizing coating of 275gsm ● Other GI profiles Confg. to IS 	
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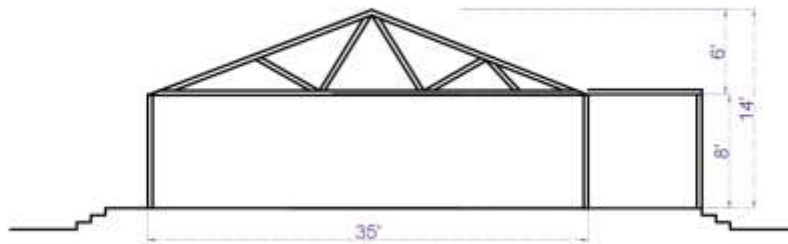
RFP for “Design, Supply, Construction, Installation of Prefab Structures in DEI Campus in Agra City (U.P) on EPC Contract mode” Second Call

	<p>277/Latest and have a min. galvanizing coating of 120gsm</p> <ul style="list-style-type: none">● MS steel members To be supplied with one coat of red oxide primer coating.● Internal wall panels To be one coat of cement primer and two coats of white oil bound emulsion.● External wall panels To be one coat of cement primer and two coats of exterior paint.● Colour/Shade of paint As per buyer's choice.● Primers to be used As per client choice.● Paints to be used As per client choice	
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WORK ORDER NO. 12
SHED FOR
MACHINERY



PLAN



TYPICAL PLAN & SECTION FOR THE REFERENCE

Work No. 13

S No.	Product Description	Quantity
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01	<p>Prefab Toilets Structure</p> <p>Dimension (Feet): 22Lx14Wx10H</p> <ul style="list-style-type: none"> ● Suitability / structural stability / completeness of structures, the structure is intended for use in wind condition of 55m/s, in Seismic zone III and ambient temperature of 0 degree C to 50 degree C. Roof should be structurally stable and suitable to meet severity of these climatic condition. <p>1. Design & Material of Wall Panels</p> <ul style="list-style-type: none"> ● Wall made in sandwich panel system using 2 Numbers 10 mm thick cement flat sheets / boards (Asbestos free) as skins conforming to IS 14276 Latest as amended upto date, Category 3 Type B of IS 14862:2000 latest as amended up to date. ● Sandwich material - 27 mm gap in between wall skins to be filled with 27mm thick expanded polystyrene core having bulk density of 15 Kg /Cum conforming to IS 4671:1984 type I (Latest) ● Panel Strengthened On all four sides By 'W' shaped pre-profiled steel section made from 0.63 GI steel sheet / coil. ● Cement sheet and expanded polystyrene core to be bonded together using bonding material PVA (polyvinyl acetate) based conforming to IS 4835/Latest, uniformly & fully applied on both sides of the expanded polystyrene cores to ensure proper bonding of the panels. No patching of adhesive will be accepted. ● 'U' shaped ground /track size (panels to be inserted one by one made from GI steel sheet / coil. ● Bottom track to be fixed to the concrete platform at plinth level by suitable fasteners screwed into PVC expandable 	02
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	<p>Screw cap.</p> <ul style="list-style-type: none"> ● Interlocking of wall panel (lengthwise) using cold-formed rectangular hollow steel section. ● Wall corners to be concealed With corner angle made from GI steel sheet / Coil. ● Top of walls to be concealed With 'U' shaped top track made from GI steel sheet / coil. ● Sellers are free to adopt higher sizes/ reinforcement for better fitment or mating of components or for improved stability after the approval from concern authority. <p>2. <u>Roof & Roof Frame Work</u></p> <ul style="list-style-type: none"> ● Type of Roof of Prefab Pitched Roof of corrugated galvanized steel sheet. ● Wall height at eaves and central gable - 2400mm at eaves and 3300mm at central gable ● Roof to be done with Galvanised corrugated sheets of 0.63mm thickness conforming to IS 277/Latest having min. 275gsm galvanising, Corrugated prepainted galvanised steel sheets and prepainted galvanised steel sheet ridge cover with thickness of BMT 0.63mm conforming to IS 14246/Latest. Top coat of sheet shall be PVDE/ Sillicon modified Polyester having thickness of 20 micron (Min) and Back coat shall be of Alkaloid epoxy or polyester having thickness of 7 micron (Min). A protection sheet (Polyethylene) shall also be provided on top coat of the sheet for transport. The durability of paint coating shall correspond to class 1 as per table - 1 of IS :14246:2013. (Colour shade of exterior finish shall be approved by the authority). The Seller shall furnish manufacture's test certificate indicating material of coating and suitability of exterior application. 	
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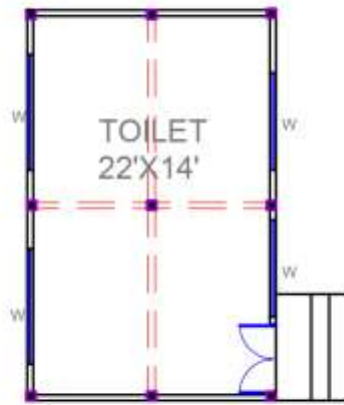
	<ul style="list-style-type: none"> ● Roof to be laid over Frame work of trusses - columns and purlins fixed using suitable fasteners like 'J' hooks with bitumen washers and nuts/bolts. ● Size of Ridge cover to be fixed on top junction of roof of same material as Roof as per structure design. ● Roof slope 1:4(approx) ● Column to be welded With MS end plate and to be fixed to the foundation bolts through this plate. ● Trusses / purlins to be fixed Using MS end plates and nuts and bolts. ● Truss, columns, Purlin & other structural element sizes would be decided as per structural design of the structure & should be approved by the client before procurement. <p>3. <u>Varandah & Doors</u></p> <ul style="list-style-type: none"> ● Width of verandah 2100mm on the longer side of the structure ● Clear height of verandah 2400 mm ● Verandah roof to be made of GI (continuous provided along the roof of the structure) ● Truss, columns, Purlin & other structural element sizes would be decided as per structural design of the structure & should be approved by the client before procurement. ● All necessary hardware which would be used the same will be provided ISI mark <p>4. <u>Windows & Ventilators</u></p> <ul style="list-style-type: none"> ● Windows as per drawings, Quantity- 4 Nos.(2000x2100) each ● All necessary hardware which would be used the same will be provided ISI mark. ● Ventilators as per drawings Quantity- 4 Nos. (2000x300) each ● Frame material of windows/ventilators Made from pressed steel using CR steel 	
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	<p>as per design requirement.</p> <ul style="list-style-type: none"> ● Grills for Windows/Ventilators Made from MS square bar of 8mm having equal spacing of 125mm ● Glass sheet for windows/ventilators Of 4mm thickness to be fixed using glass putty <p>5. <u>Electrical Wiring & Fitments</u></p> <ul style="list-style-type: none"> ● Main switch board Comprising of SP/DP MCBs to be supplied in addition. ● Wiring: 0.75, 1.5, 2.5, 4 mm thickness ● Switch & Socket: 5 Amp. & 16 Amp. ● Cables and PVC conduit Adequate quantity to be provided ● Electrical installation/completeness Seller is fully responsible for wiring etc. (except light fittings) ● Fan regulator Conforming to IS 11037/Latest ● Adequate Lighting for proper legibility & reading for the student should be provided. ● Ceiling fan (04 nos.) or as per requirement of size. ● Exhaust Fan: 8x8 inch (4 Nos.) or as per requirement of size. <p>6. <u>Color & Finish</u></p> <ul style="list-style-type: none"> ● Corrugated GI sheets and ridge cover Confmg. to IS 277/Latest and have a min. galvanizing coating of 275gsm ● Other GI profiles Confmg. to IS 277/Latest and have a min. galvanizing coating of 120gsm ● MS steel members To be supplied with one coat of red oxide primer coating. ● Internal wall panels To be one coat of cement primer and two coats of white oil bound emulsion. ● External wall panels To be one coat of cement primer and two coats of exterior 	
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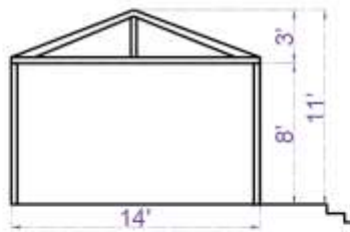
RFP for “Design, Supply, Construction, Installation of Prefab Structures in DEI Campus in Agra City (U.P) on EPC Contract mode” Second Call

	<p>paint.</p> <ul style="list-style-type: none">● Colour/Shade of paint As per buyer's choice.● Primers to be used As per client choice.● Paints to be used As per client choice	
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WORK ORDER NO. 13
TOILET



PLAN

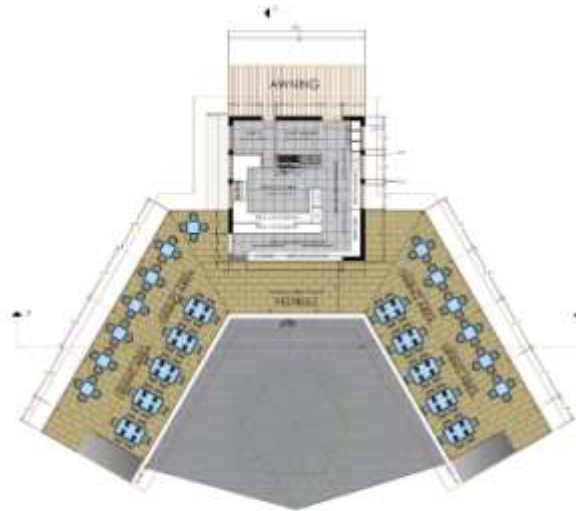


SECTION

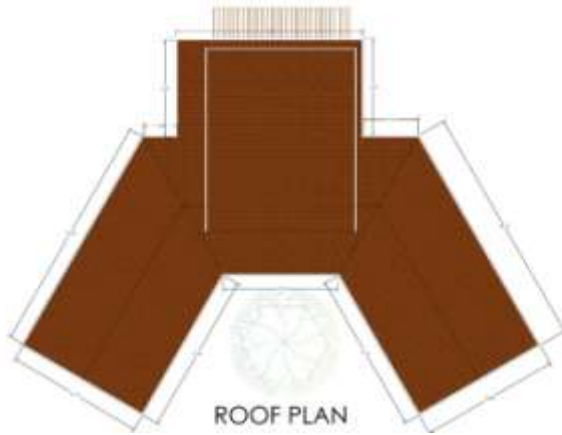
TYPICAL PLAN & SECTION FOR THE REFERENCE

Work Order No. 14

Cafeteria



GROUND FLOOR PLAN



ROOF PLAN



SECTION Y-Y'



VIEW FROM EXHIBITION



VIEW FROM COURTYARD

Work Order No. 15

Library

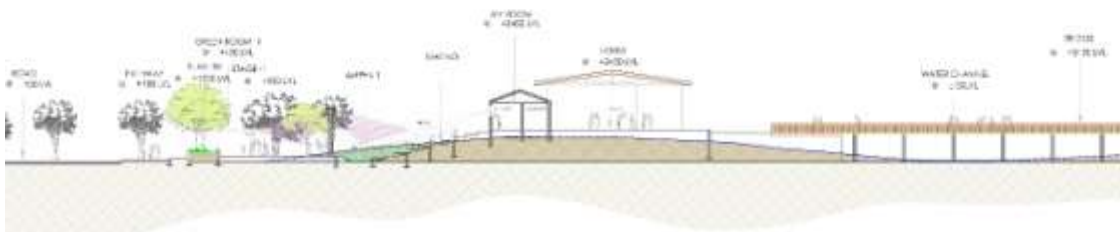


Work Order No. 16

Open Air Theatre



SITE PLAN



Note- These are the minimum specification & drawings to be recommended tentative & other specification under/ over cost of the project will be approved by the client.

4.4 Suggested Team Composition & Qualification Requirements

Project Manager having graduate in Civil Engineering having experience of 10 years and minimum 3 years similar experience. Supervisor having graduate in any discipline.

4.5 Time Schedule

The project duration is for 3 months from the date of contract. If the work is not completed within the stipulated period as per approved proposal, Dayalbagh Education Institute will not give any extra payment during the extended time period.

4.6 Payment Schedule

Payment will be made against achieving milestones of the project as stated in the contract as submitted by the invoice within 15 days after verification of the work.

4.7 Penalty clause

- a) In case of delay in delivery of material/execution, the DEI may at his option, impose a penalty calculated at the rate of 0.1% per each day of the delayed goods/ balance work and up to a maximum deduction of 5% of the tender conditions of such portion only of the quantity as have not been delivered/executed on the specified date (five month from the date of agreement). Such reduction shall be in full satisfaction of the supplier’s liability for the delay but shall not in any case exceed five per cent of the value. Once the maximum is reached the department may consider termination of contract.

Section 5: Technical Proposal

FORM TECH-1

LETTER OF PROPOSAL SUBMISSION

[Location, Date]

To,

Registrar ,

Dayalbagh Education Institute, Agra

Dear Sir,

We, the undersigned, offer to provide the Assignment/ job for **“Selection of Design Built Contractor: For Design, Engineering and Construction for Prefab structures in DEI campus along with the foundation (Complete Work), Dayalbagh, Agra”** in accordance with your Request for Proposal dated **[xx/xx/2022]** and our Proposal. We are hereby submitting our Proposal, which includes this Technical Proposal, and a Financial Proposal with requisite EMD and bid processing fees. We hereby declare that all the information and statements made in this Proposal are true and accept that any misinterpretation contained in it may lead to our disqualification.

If negotiations are held during the period of validity of the Proposal, we undertake to negotiate on the basis of the proposed staff. Our Proposal is binding upon us and subject to the modifications resulting from Contract negotiations.

We understand you are not bound to accept any Proposal you receive.

We remain,

Yours sincerely,

Authorized Signatory

[In full and initials]

Name and Title of Signatory:

Name of Organization:

Address:

**RFP for “Design, Supply, Construction, Installation of Prefab Structures in DEI Campus in Agra City
(U.P) on EPC Contract mode” Second Call**

FORM TECH-2

FORM 2 A: BIDDER’S ORGANIZATION AND EXPERIENCE

Details of Bidder

a.	Name of BIDDER with full address	
b.	Tel. No.	
c.	Fax No.	
d.	Email	
e.	Year & Date of Registration.	
f.	Name and address of the person holding the Power of Attorney.	
g.	Name of Bankers with full address.	
h.	GSTN Registration Number (copy).	
i.	Permanente Account Number (copy).	
j.	Are you presently debarred / Blacklisted by any Government Department /Public Sector Undertaking /Any Employer? (If Yes, please furnished details)	
k.	Name and details (Tel / Mobile / E mail) of contact persons	

**RFP for “Design, Supply, Construction, Installation of Prefab Structures in DEI Campus in Agra City
(U.P) on EPC Contract mode” Second Call**

FORM 2B: FORMAT FOR FINANCIAL CAPABILITY OF THE BIDDER

(Equivalent in Rs. crores)

Bidder	-----(<i>Name of Bidder</i>)				
FY	2019-20	2020-21	2021-22	Total	Average
Annual Turnover					

Certificate from the Statutory Auditor

This is to certify that..... (*Name of the Bidder*) has received the payments and annual turnover as shown above against the respective years.

Name of the audit firm:

Seal of the audit firm Date:

(*Signature, name and designation of the authorized signatory*)

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FORM 2C: ENGAGEMENT EXPERIENCE

LIST PROJECTS IN THE LAST TEN YEARS WHICH ARE SIMILAR TO THAT IN THE RFP.

Assignment name:	Value of the contract (in current INR):
Country:	Duration of assignment (months):
Name of Employer:	Total No of staff-months of the assignment:
Address:	
Start date (month/year): Completion date (month/year):	
Narrative description of Project:	

(Along with the details the bidder is also required to submit the supportive documents/ Work undertaken for each of the projects)

FORM TECH-3

DESCRIPTION OF APPROACH, METHODOLOGY, AND WORK PLAN IN RESPONDING TO THE TERMS OF REFERENCE

A description of the approach, methodology and work plan for performing the assignment, including a detailed description of the proposed methodology and staffing for training.

1. Technical Approach and Methodology
 2. Work Plan
 3. Organization and Staffing
- a) **Technical Approach and Methodology.** Please explain your understanding of the objectives of the assignment as outlined in the Terms of Reference (TORs), the technical approach, and the methodology you would adopt for implementing the tasks to deliver the expected output(s), and the degree of detail of such output.
- b) **Work Plan.** Please outline the plan for the implementation of the main activities/tasks of the assignment, their content and duration, phasing and interrelations, milestones (including interim approvals by the Client), and tentative delivery dates of the reports. The proposed work plan should be consistent with the technical approach and methodology, showing your understanding of the TOR and ability to translate them into a feasible working plan. A list of the final documents (including reports) to be delivered as final output(s) should be included here. The work plan should be consistent with the Work Schedule Form.
- c) **Organization and Staffing.** Please describe the structure and composition of your team, including the list of the Key Experts, Non-Key Experts and relevant technical and administrative support staff.}

FORM TECH-4

CURRICULUM VITAE (CV) FOR PROPOSED PROFESSIONAL STAFF

1. Proposed Position:

[For each position of key professional separate form Tech-6 will be prepared]:

2. Name of Organization:

[Insert name of BIDDER proposing the staff]:

3. Name of Staff:

[Insert full name]:

4. Date of Birth:

5. Nationality:

6. Education:

[Indicate college/university and other specialized education of staff member, giving names of institutions, degrees obtained, and dates of obtainment]:

7. Membership of Professional Associations:

8. Other Training:

9. Countries of Work Experience:

[List countries where staff has worked in the last ten years]:

10. Languages [For each language indicate proficiency: good, fair, or poor in speaking, reading, and writing]:

11. Employment Record:

[Starting with present position, list in reverse order every employment held by staff member since graduation, giving for each employment (see format here below): dates of employment, name of employing organization, positions held.]:

From [Year]:

To Year]:

Employer:

Positions held:

12. *Detailed Tasks Assigned*

[List all tasks to be performed under this Assignment/job]

13. Work Undertaken that Best Illustrates Capability to Handle the Tasks Assigned

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[Among the Assignment/jobs in which the staff has been involved, indicate the information for those Assignment/jobs that best illustrate staff capability to handle the tasks.]

Name of Assignment/job or project:

Year:

Location:

Employer:

Main project features:

Positions held:

Activities performed:

14. Certification:

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience. I understand that any willful misstatement described herein may lead to my disqualification or dismissal, if engaged.

Date:

[Signature of staff member or authorized representative of the staff]

Place:

[Full name of authorized representative]

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FORM TECH-5

STAFFING SCHEDULE

Sr.	Name of Staff	Staff input (in the form of bar chart)							Total Months
		1	2	3	4	N	
1									
2									
3									
4									

FORM TECH-6

LETTER OF DECLARATION FOR NOT HAVE BEEN BLACK LISTED

[Location, Date]

To,
Registrar ,
Dayalbagh Education Institute
Dayalbagh, Agra

Subject: Letter of Declaration for not have been Blacklisted

We, *[Name of BIDDER]* have not been black listed/ debarred/ termination of contract except for reasons of convenience of Employer by any Government/ Government board/ Corporation/ Agency/ firm/ Statutory Body/ PSU Agency/ firm/ Non-Government/ Government of any sovereign countries/ Private Agencies and Funding Agencies in the last 15 years.

For *[Name of BIDDER]*,

Authorized Signatory [In full and initials]

Name and Title of Signatory:

Name of BIDDER:

Address

FORM TECH-7

POWER OF ATTORNEY

(To be on non-judicial stamp paper of appropriate value as per Stamp Act relevant to place of execution.)

Power of Attorney to be provided by the BIDDER in favor of its representative as evidence of authorized signatory's authority.

Know all men by these presents, We.....(name and address of the registered office of the BIDDER, as applicable) do hereby constitute, appoint and authorize Mr./ Ms.....(name and residential address) who is presently employed with us and holding the position of, as our Attorney to do in our name and our behalf all or any of the acts, deeds or things necessary or incidental to submission of our "....." in response to the TOR Document dated.....issued by Dayalbagh Education Institute), (the BIDDER) including signing and submission of the Bid and all other documents related to the Bid, including but not limited to undertakings, letters, certificates, acceptances, clarifications, guarantees or any other document which the BIDDER may require us to submit. The aforesaid Attorney is further authorized for making representations to the BIDDER or any other authority, and providing information/responses to the BIDDER, representing us in all matters before the BIDDER, and generally dealing with the BIDDER in all matters in connection with our Bid till the completion of the bidding process as per the terms of the TOR Document and further till the Contract is entered into with the BIDDER and thereafter till the expiry of the Contract.

We hereby agree to ratify all acts, deeds and things done by our said attorney pursuant to this Power of Attorney and that all acts, deeds and things done by our aforesaid attorney shall be binding on us and shall always be deemed to have been done by us.

All the terms used herein but not defined shall have the meaning ascribed to such terms under the TOR Document.

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Signed by the within named ----- [Insert the name of the executant BIDDER] Through the hand of Mr..... Duly authorized by the Board to issue such Power of Attorney

Date this.....day of..... Accepted..... Signature of Attorney

(Name, designation and address of the Attorney)

Attested

.....

(Signature of the executant)

(Name, designation and address of the executant)

.....

Signature and tamp of Notary of the place of

execution

Section 6: Financial Proposal

FORM FIN-1

FORMAT FOR SUBMISSION OF FINANCIAL QUOTE

To be submit financial bid in e-Tender mode only

6.1 Terms of Payment of Contract Price

a) **ACTIVITY SCHEDULING:**

D = Date of issue of work order

Activity	Duration (in days)
Survey and Investigation	D+7
Preparation of detailed design drawings	D+15
Submission and Approval	D+30
Excavation & Construction of sub structure	D+120
Construction of super structure	D+270

	PAYMENT DURING DETAIL DESIGN & DRAWINGS	5% of the project cost
1	On submission of Design and Drawings	0%
2	On approval of Design, drawings	100%
C.	PAYMENT DURING CONSTRUCTION STAGE	95% of the project cost
1	On Completion of foundation works	20%
2	On Completion of super structure upto Roof Level	15%
3	On completion of Roof with water proofing	5%
4	On Completion of Façade works of building	20%
5	On completion of Flooring, Lighting, Plumbing etc	20%
6	On final testing , commissioning of all utilities	10 %
7	Submission of As built drawing, proving training, manual & obtaing all statutory clearances	5 %
8	After completion of Defect Liability period of 2 years	Balance Payment
	Note: Pro-rata payment options will be considered for the respective milestones if there is any change of scope.	

Section 7: TECHNICAL SPECIFICATIONS

1. Formwork

1.1 Materials and Design

The method and design of form work to be adopted by the Contractors is to be produced for approval of the same by ENGINEER - IN – CHARGE before any form work is taken up.

The form work shall be of approved 12 mm. thick water proof ply surface to be in contact with concrete, to be planed smooth. In every case joints of the shuttering are to be such as to prevent the loss of liquid / water from concrete. In ply shuttering the joints shall be perfectly close and lined.

Steel shuttering using hydraulic jacks shall preferably be used in all possible cases and as directed by ENGINEER - IN - CHARGE.

If any particular materials, or materials be specified in the schedule of quantities for form work such particularly specified material or materials shall be used in work. The form work shall be so constructed as to remain sufficiently rigid during placing of the concrete. All shuttering and forming must be adequately stayed and braced to the satisfaction of ENGINEER - IN – CHARGE for properly supporting the concrete during the period of hardening. The forms shall have sufficient strength and rigidity to hold concrete and withstand the pressure of remaining and vibration without excessive deflection from the prescribed lines and more so when the concrete is vibrated. The surface of all forms in contact with concrete shall be clean, rigid, watertight and smooth. Suitable devices shall be used to hold corners, adjacent ends and edges of panels of other forms together in accurate alignment.

The form work shall conform to the shape, lines and dimensions to suit the R.C.C. members as shown on drawings and be so constructed. Form work shall be adequately designed to support the full weight of workers, fresh placed concrete without yielding settlement or deflection, and to ensure good and truly aligned concrete finished in accordance with the construction drawings. A camber in all directions of 6mm for every 5 M span in all slab and beam centering shall be given to allow for unavoidable sagging due to compression or other causes , unless otherwise specifically instructed in writing by ENGINEER - IN - CHARGE.

The form work shall be as designed that the sides of the beams retain its position and does not get bulged these however should be so designed that the sides of the beams can be first struck leaving the soffit of beams and the supporting props in position. Props shall be designed to allow accurate adjustment and to permit of their being struck without jarring the concrete. No bamboo propping shall be used . Bulged section shall not be accepted and need to be rectified or rebuilt as per instruction of ENGINEER - IN - CHARGE. No extra claim , in any case shall be entertained by ENGINEER - IN - CHARGE.

Temporary openings shall be provided at the base of columns forms and at other points where necessary to facilitate cleaning and observation immediately before concrete in deposited.

2. Reinforcement

High strength deformed steel bars produced by Thermo Mechanical Treatment process (TMT steel bars of grade Fe 500) shall be used for reinforcement work unless otherwise mentioned.

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This shall conform to the standard and quality in accordance with IS:1786 (Latest edition) and other relevant IS Codes. Bending and cutting of reinforcing steel bars shall conform to IS: 2502. Lapping of bars where necessary shall be done as per IS specifications.

2.1 Storage

The reinforcement shall not be kept in direct contact with the ground but stack on top of an arrangement of timber sleepers or the like. Reinforcement shall be coated with cement wash before stacking to prevent scale and rust. Fabricated reinforcement shall be carefully stored to prevent damage, distortion corrosion and deterioration.

2.2 Quality

All steel shall be of Grade I quality unless specifically permitted by the Engineer. Re-rolled material is generally not permitted. However, only approved / authorized re-rolling manufacturer can be allowed to supply only at the discretion of Engineer. With each lot, contractor shall submit the manufacturer's test certificate for steel. Random tests on steel supplied by Contractor may be performed by owner as per relevant Indian Standards. All cost incidental to such tests shall be at "Contractor's Expense". Steel not conforming to specification shall be rejected.

All reinforcement shall be clean, free from grease, oil, paint, dirt, loose mill scale, loose rust, dust, bituminous material or any other substances that will destroy or reduce the bond. All bars shall be thoroughly cleaned before being fabricated. Pitted and defective bars shall not be used. All bars shall be rigidly held in position before concreting. No welding of rods to obtain continuity shall be allowed unless approved by the Engineer. If welding is approved, the work shall be carried out as per IS-2751 and according to best modern practices and as directed by the Engineer. In all cases of important connections, strength of bars welded Special precautions, as specified by the Engineer shall be taken in the welding of cold worked reinforcing bars and bars other than mild steel.

2.3 Laps

Laps and splices for reinforcement shall be as shown on the drawings. Splices in adjacent bars shall be staggered and the locations of all splices, except those specified on the drawings, shall be approved by the Engineer. The bars shall not be lapped unless the length required exceeds the maximum available lengths of bars at site.

2.4 Bending

All bars shall be accurately bent according to the sizes and shapes shown on the approved detailed working drawings / bar bending schedules. They shall be bent gradually by machine or other approved means. Reinforcing bars shall not be straightened and rebent in a manner that will injure the material, crack or split. Bar of over 25 mm in diameter shall be bent cold, except bar specifically approved by the Engineer. Bars, which depend for their strength on cold working, shall not be bent hot. Bars bent hot shall not be heated beyond red colour (not exceeding 645°C) and after bending shall be allowed to cool slowly without quenching. Straightening and rebending be such as shall not in the opinion of Engineer injure the material_ No reinforcement shall be bent when in position in the work without approval, whether or not it is partially, embedded in hardened concrete. Bars having kinks or bends other than those required by design shall not be used.

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3. Prefab Structures

SL. NO	DESCRIPTION	DETAILS
1	MS FRAME (RAFTER AND COLUMN)	DESIGN, SUPPLY FABRICATION AND ERECTION OF BUILT-UP SECTION FROM 345 MPA GRADE STEEL PLATE TYPE I OR EQUIVALENT PRIMARY MEMBER SHALL BE COATED WITH ONE COAT OF RED OXIDE PRIMER AND ENAMEL PAINT
2	PURLIN	COLD FORMED SECTIONS SHALL BE USED FOR ALL PURLINS
3	BRACING	MS PIPE OF 250MPA GRADE SHALL BE USED AS PER DESIGN
4	NUT & BOLTS	5.8 GRADE BOLTS AS PER DESIGN SHALL BE USED FOR ALL APPLICATIONS
5	PUF PANEL ROOF	PUF PANEL SHALL BE USED FOR ROOFING APPLICATION
6	PUF PANEL WALLS	PUF PANEL SHALL BE USED FOR WALL APPLICATION

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Price Bid						
Name of the work		“Design, Supply, Construction, Installation of Prefab Structures in DEI Campus in Agra City (U.P) on EPC Contract mode” Second call				
Client		Dayalbagh Educational Institute, Dayalbagh				
Name of the contractor						
BOQ						
Sr No	Item	UoM	Rate	Quantity	Amount	Remarks
1	LAB	SQFT		1620		
2	WORKSHOP	SQFT		1620		
3	LAB	SQFT		2400		
4	LAB	SQFT		1620		
5	WORKSHOP	SQFT		1620		
6	WORKSHOP	SQFT		2500		
7	CLASSROOM	SQFT		400		
8	CLASSROOM	SQFT		400		
9	WORKSHOP	SQFT		1848		
10	SITE OFFICE	SQFT		1836		
11	SHED FOR AGRICULTURE MACHINERY	SQFT		3150		
12	CONFERENCE + STAFF ROOM	SQFT		1550		
13	TOILETS	SQFT		616		
14	Cafeteria	SQFT		1352		
15	Library	SQFT		1352		
16	Open Air Theatre	SQFT		8100		