

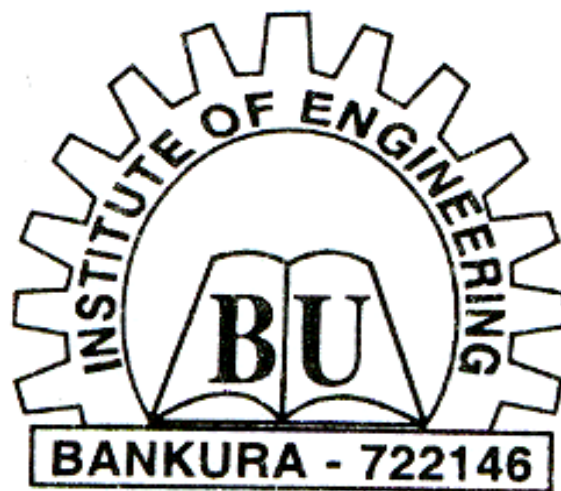
**BANKURA
UNNAYANI
INSTITUTE OF
ENGINEERING**

2017

TENDER NO. I E/03/xii/17

Dated 22.12.2017

BUIE



[BIDDING DOCUMENT]

**Construction of Green House at College premises, BUIE
P.O.: Bhagabandh, Bankura**

.....
REGISTRAR

INSTRUCTION TO BIDDERS
SECTION A

1. The work comprised in the contract generally consists of all Civil Works to be completed in all respects as shown in the drawings.
2. The tenderer shall carefully go through the clauses in the notice invitation to tender. Articles of Agreement, General Conditions of Contract, Technical specification etc. and shall include in his rates any sum that may be considered necessary to cover the various contained therein.
3. The quotation submitted by the tenderer should be based on the probable quantities of the several items of work. It must be clearly understood that the Contract is not a lump sum contract and the employer does not in any way assure the tenderer or guarantee that the probable quantities are correct or that the work should correspond thereto.
4. The item of work shall be inclusive of everything necessary to complete the said item of work within the contemplation of the Contract and beyond the unit price no extra payment will be allowed for any incidental or contingent work, labour, materials, tools & plant etc.
5. No change in unit rate will be admissible for any variation in quantities.
6. Tenderer shall note that:
 - a. All materials and labour, required shall have to be provided by the contractor and the cost for which will be deemed to have catered for in the rates quoted.
 - b. Water for construction purpose and drinking water shall have to be arranged by him.
 - c. Electricity shall have to be arranged him.
 - d. The rate quoted by him shall also be included all cost especially those mentioned below:
 - i. Transport of constructional plant, personnel, etc., to the site at the start of work and their withdrawal on completion of work.
 - ii. Storage of material at site and hoisting and lowering to all levels and depths.
 - iii. Supplying, transporting to site, unloading, protecting and installation of materials of materials in accordance with the specification.
 - iv. Accommodation of the Contractor's staff & labourers.
 - v. Insurance of materials at site as stipulated in the Conditions.
 - vi. Protection of all equipment.
 - vii. All contingency expenses that will have to be made to ensure that work do not get stopped due to extraneous reasons.
 - viii. All cost towards repairs, rectification and maintenance till handling over shall be included in the rates.
7. For a particular item of work, whatever is stated in the Technical specifications will generally be given precedence. However, the Tenderer is to bring to the notice of Employer such instances, before he submits his offer to enable the Employer to supply to the Tenderer necessary clarifications.
8. Rates shall be quoted in both figures and in words in clear and legible writing. No overwriting is allowed. All scoring and cancellation should be countersigned by the Contractor.
9. Tenderer should quote his rates accordingly for all Rate Only' Items. The decision of the Employer in this regard is final.
10. Rates quoted or any work shall generally be applicable for work at any heights and /or technical specifications. The Contractor has also to take into cognizance / consideration all costs that will have to be incurred for constructing rigid platforms, scaffolding, hoisting / lowering mechanisms etc.

SPECIAL CONDITIONS OF CONTRACT

1. Monthly running bill may be submitted by the contractor along with the detailed progress report and describing the reasons for delay, if any also the revised activity schedule is submitted. Details of labour payment made, copy of labour license /registration number etc. materials consumption statement etc. are also to be submitted along with each RA bills.
2. Secured advance on non-perishable materials or any other advance may not be paid to the contractor if the Engineer —in- charge desires so.
3. If the contractor fails to maintain the required progress to complete the work and clear the site on or before the contract or the extended time of completion; he shall without any other right or remedy available On of such breach, pay as agreed compensation at the rates stipulated below or such smaller amount as the Engineer -in-charge may decide on the amount of tendered value of the work for every completed Clay/week as applicable that the progress remains below that specified time or that the work remains incomplete.
4. Completion period exceeding two months: @0.05 % per day provided always that the total amount of compensation for delay to be paid under this condition shall not exceed 10% of the tendered value of the work or the tendered value of the item or group of items of work for which separate period of completion is originally given.
5. Testing of materials to be made from the nearest Government approved laboratory, when the Engineer—in - Charge or any of his representatives desires so and the cost for the testing will be borne by the contractor.
6. Cube test results (tested at any national test house of repute) for all concrete works are to be furnished to the authority by the contractor.
7. The contractor will be also abide by all the rules and regulations regarding labour law and also be fully responsible for all actions by him.
8. In the case of any class of work for which there is no such specification, such work shall be carried out in all respects in accordance with the instructions and requirements of the Engineer- in-Charge.
9. In any item description, the material(s) mentioned, may be changed or altered with equivalent material as desired by the Engineer-in-charge.
10. The work shall be carried out as per National Code and CPWD/PWD Specifications.
11. It shall be imperative on each bidder to acquaint and be apprised of all local conditions and factors prevailing in the campus in general which may have any effect on the execution of work covered under the scope of the work as per bid document. In their own interest, the bidders are requested to familiarize themselves with the provisions of Income Tax Act, other related acts & laws governing the contract, with their up to date amendments and also adhere to court directives and other State & Central Government acts on labour etc.
12. Tender inviting authority have right to reject the Tender without assigning any reason.

SECTION- B

1. Format for Qualification Information. Previously received application
2. Format for Submission of Quotation.
3. Format of Letter of Acceptance cum Notice to Proceed with the Work.
4. Format of Agreement Form.
5. Conditions of Contract,
6. Special Conditions of Contract.

QUALIFICATION INFORMATION

1. For Individual Bidders

1.1 Principal place of business: _____

Power of attorney of signatory of Quotation. [Attach copy]

12 Total value of Civil construction work performed in the last three years (in Rs. Lakhs) in the year -

2014-2015 _____

2015-2016 _____

2016-2017 _____

1.3 Work performed as prime contractor (in the same name) on works of a similar nature over the last three years.

Project Name	Name of the employer	Description Contract	contract No.	Value of contract (Rs. Lakhs)	Date of issue of work	Stipulated period of completion	Actual date of completion	Remarks explaining reasons for delay and work completed

Existing commitments and on-going works:

Description of work (1)	Place & Date (2)	contract No. Date (3)	Value of contract (Rs. Lakhs) (4)	Stipulated period of completion (5)	Value of works* remaining to be completed (Rs. Lakhs) (6)	Anticipated date of completion. (7)

***Enclose a certificate from Employer Concerned.**

1.4 Proposed subcontracts and firms involved.

Sections of the works in similar work	Value of Sub contract	Sub-contractor (Name and Address)	Experience
*	*	*	*
*	*	*	*
*	*	*	*
*	*	*	*

1.5 Evidence of access to financial resources to meet the qualification requirements: cash in hand, lines of credit, etc. List them below and attach copies of support documents.

1.6 Name, address, telephone and fax numbers of the Bidders' bankers who may provide references if contacted by the Employer.

1.7 Information on litigation history in which the Bidder is involved.

Other party	Employer	Cause of dispute	Amount involved	Remarks showing present status

QUOTATION

Description of the Works

To:

Subject: Construction of.....

Reference Letter No.: _____ dated _____ from _____

Sir.

We offer to execute the Works described in your letter referred to above in accordance with the Conditions of Contract enclosed at item rate basis as per specification given in annexure-I.

Rs.** _____ (in figures)

Rs. _____ (In words)

This quotation and your written acceptance of it shall constitute a binding contract between us. We understand that you are not bound to accept the lowest or any quotation you receive.

We hereby confirm that this quotation is valid for 45 days as required in Clause 6 of the letter of invitation.

Yours faithfully,

Authorized Signature : _____ Date: _____

Name & Title of Signatory : _____

Name of Bidder : _____

Address : _____

* To be filled in by the Employer before issue of the Letter of Invitation.

**To be filled in by the Bidder, together with his particulars and date of submission at the bottom of this Form.

Agreement Form

AGREEMENT

This agreement, made on the _____ day of _____ 20____ between and [name and address of the contractor] (hereinafter called "the Contractor" of the other part).

Whereas the employer is desirous that the Contractor execute _____ hereinafter called "the Works") and the employer has accepted the Bid by the Contractor for the execution and completion of such works and the remedying of any defects therein, at a contract price of Rs. _____

NOW THIS AGREEMENT WITNESSES as follows:

1. In this agreement, words and expression shall have the same meanings as are respectively assigned to them in the conditions of contract hereinafter referred to and they shall be deemed to form and be read and construed as part of this Agreement.
2. In considerations of payments to be made by the employer to the contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the Works and remedy any defects therein in conformity in all aspects with the provisions of the Contract.
3. The Employer hereby covenants to pay Contractor in consideration of the execution and completion of the works and the remedying the defects wherein Contract price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.
4. The following documents shall be deemed to form and be read and construed as part of this Agreement.
viz., :-

- (i) N.I.T
- (ii) Letter of Acceptance cum Notice to Proceed with the Work.
- (iii) Contractor's bid.
- (iv) Contract Data.
- (v) Conditions of contract (including the special conditions of contract).
- (vi) Specifications.
- (vii) Drawings.
- (viii) Any other document listed in the Contract Data as forming part of the contract.

In witness where of the parties thereto have caused this Agreement to be executed the day and year first before written.

The common Seal of _____ was hereunto afixed in the presence of:

Signed, Sealed and delivered by the said _____ In the presence of:

Binding Signature of Employer _____

Binding Signature of Contractor _____

CONDITIONS OF CONTRACT

1 Definitions

Terms, which are defined in the Contract Data, are not also defined in the Conditions of but keep their defined meanings. Capital initials are used to identify defined terms.

Completion Date is the date of completion of the Works as certified by the Engineer in accordance with Clause 6.

Contract is the contract between the Employer and the Contractor to execute, complete and maintain the Works. It consists of the documents listed in Clause 2.3 below.

The **Contract Data** defines the documents and other information, which comprise the Contract.

The **Contractor** is a person or corporate body whose bid to carry out the works has been accepted by the Employer.

The **Contractor's bid** is the completed bidding document submitted by the Contractor to the Employer.

The **Contract Price** is the price stated in the Letter of Acceptance and thereafter as adjusted in accordance with the provisions of the Contract.

Days are calendar days; months are calendar months.

A **defect** is any part of the works not completed in accordance with the contract.

The **Employer** is the party who will employ the Contractor to carry out the works.

The **Engineer** is the person named in the Contract Data (or the Consultant, representative of the Consultant, or any other competent person appointed and notified to the contractor to act in replacement of the Engineer) who is responsible for supervising the Contractor, administering the Contract, certifying and making payments due to the Contractor. Issuing and valuing Variations to the Contract, awarding extensions of time, and valuing the Compensation Events. Equipment is the Contractor's machinery and vehicles brought temporarily to the Site to construct the Works.

The **Initial Contract Price** is the Contract Price listed in the Employer's Letter of Acceptance.

The Intended **Completion Date** is the date on which it is intended that the Contractor complete the Works. The Intended Completion Date is specified in the Contract Data.

Intended Completion Date may be revised only by the Engineer by issuing an extension of time.

Materials are all supplies, including consumables, used by the contractor for incorporation in Works. '

Plant is any integral part of the works, which is to have a mechanical, Electrical, electronic, chemical or biological function.

The Site is the area defined as such in the Contract Data.

Specification means the Specification of the works 'included in the Contract and any modification or addition made or approved by the Engineer.

A **Sub-contractor** is a person or corporate body who has a Contract with the contractor to carry out a part of the work in the Contract, which includes work on the Site.

Temporary works are works designed, constructed, installed, and removed by the Contractor, which are needed for construction or installation of the Works.

A **Variation** is an instruction given by the Engineer, which varies the Works.

2. The documents forming the Contract shall be interpreted in the following order of priority:

- (1) Agreement
- (2) Letter of Acceptance, notice to proceed with the works
- (3) Contractor's bid
- (4) Contract Data
- (5) Conditions of Contract including Special Conditions of Contract
- (6) Specifications
- (7) Drawings
- (8) Any other document listed in the Contract Data as forming part of the Contract.

3. Cost of the Contract

The total cost of the works (hereinafter referred to as the "total cost") is Rs. _____

4. Payments under its contract;

As per item 2 given in the 'Special Conditions of Contract'.

5. Notices by Contractor to Engineer

The second party, on the work reaching each stage of construction issues a notice to the first party engineer nominated by the first party to visit the site for certification of stage completion. Within 15 days of the receipt of such notice, the first party or the engineer nominated by it, will ensure issue of stage completion certificate after due verification.

6. Completion time

The works should be completed in 1.5 months from the date of this issue of workorder.

7. Other Contractors

The Contractor shall cooperate and share the Site with other contractors, public authorities, utilities, and the Employer between the dates given in the Schedule of Other Contractors. The Contractor shall as referred to in the Contract Data, also provide facilities and services for them as described in the Schedule. The employer may modify the schedule of other contractors and shall notify the contractor of any such modification.

8. Contractor's Risks.

All risks of loss of or damage to physical property and of personal injury and death, which arise during and in consequence of the performance of the Contract other than the excepted risks are the responsibility of the Contractor.

9. Safety

The Contractor shall be responsible for the safety of all activities on the Site.

10. Construction delay

As per given in the instruction to the bidders. (SEE SECTION A)

11. Quality control

11.1 The Engineer shall give notice to the Contractor of any Defects before the end of the Defect 5 Liability period, which begins at completion and is defined in the Contract Data. The Defects Liability period shall be extended for as long as Defects remain to be corrected.

11.2 Every time notice of a Defect is given, the Contractor shall correct the notified Defect within the length of time specified by the Engineer's notice.

11.3 If the Contractor has not corrected a Defect within the time specified in the Engineers notice, the Engineer will assess the cost of having the Defect corrected, and the Contractor will pay this amount.

12. Duties and responsibilities of the second party

12.1 The second party shall:

- a) Take up the works and arrange for its completion within the time period stipulated in clause 6;
- b) Employ suitable skilled persons to carry out the works '
- c) Regularly supervise and monitor the progress of work;
- d) Abide by the technical suggestions I direction of supervisory personnel including engineers etc. regarding building construction;
- e) Be responsible for bringing any discrepancy to the notice of the representative of the first party and seek necessary clarification;
- f) Ensure that the work is carried out in accordance with specifications, drawings and within the total of the contract amount without any cost escalation;
- g) Keep the first party informed about the progress of work;
- h) Be responsible for all security and watch and ward arrangements at site till handing over of the work to the first party; and
- i) Maintain necessary insurance against loss of material's/cash. etc. or workman disability compensation claims of the personnel deployed on the works as well as third party claims.
- j) Pay all duties, taxes and other levies payable by construction agencies as per law under the contract (First party will effect deduction from running bills in respect of such taxes as may be imposed under the law).

13. Variations

The works shall be carried out by the second party in accordance with the approved drawings and specifications. However if on account of site conditions or any other factors variations are considered necessary, the following procedure shall be followed

- a) The second party shall provide the Engineer or nominee of the Consultant with a quotation for carrying out the Variation when requested to do so by the Engineer. The Engineer shall assess the quotation, which shall be given within seven days of the request before the Variation is ordered.
- b) If the quotation given by the second party is unreasonable, the Engineer or the nominee of Consultant may order the Variation and make a change to the Contract Price which shall be based on Engineer's own forecast of the effects of the Variation on the Contractor's costs.
- c) Any variations in items of works arising out of site conditions as well as modifications of drawings will be decided by the 1st party.

14. Dispute settlement

If over the works, any dispute arises between the two parties relating to any aspects of this Agreement, the parties shall first attempt to settle the dispute through mutual and amicable consultation.

SPECIAL CONDITIONS OF CONTRACT

1. Character of Site and Approach Road:

Before submission of tenders, the Contractors shall inspect the site of work; get them thoroughly acquainted with local conditions and difficulties under which the work will have to be carried out. They should consider among others the nature of soil climatic conditions of the locality dearth of water in the area of the work, condition of existing kutchra & pucca roads, transport difficulties non-existence of roads in any place etc. Extra cost involved due to above factors shall have to be borne by the tenderers and should therefore, be included in the rate to be quoted by them. Necessary haul road and roads to water sources and queries connected with the work shall be satisfactorily constructed and maintained by the Contractor at- his own costs.

2. Idle Labour:

No claim for idle labour would be entertained under any Circumstances.

3. Pumping, Dewatering etc.

The contractor shall provide all pumping and other arrangement that may be necessary to remove water from foundations or any part of the structure under construction, normal seepage water subsoil water, and rainwater whatsoever. Such pumping or other necessary arrangements shall not be paid for separately and the cost there of is to be included in the contractor's rate of relevant item of works.

4. Water and Electric Power:

Arrangement for water for all road and building works, such as, mixing mortar, soaking brick materials brick works, concrete works, consolidation of materials washing stone metals and chips etc. construction of platforms and vats etc. including cost thereof are to be borne by the contractors. Me water should be clean, free from loam silt or organic materials. No hard water shall be used. The rate quoted by the contractors must be inclusive of all such charges and costs. Arrangement for electric power required by the Contractor for the work shall also be made by him at his own cost. Engineer will however recommend to the State Electricity Board for giving connection and power to the Contractor. However the Engineer will bear no responsibility in this respect.

5. Sheds for Staff and Labour:

The contractor shall arrange for temporary sheds and latrines, water supply etc. arrangement for the use of his staff and to keep latrine clean and disinfected, as will be directed by the Engineer of work and shall remove those "completely on completion of the work and the ground restored to its original condition to the satisfaction of the Engineer.

6. Clearing the site:

Before starting any work. Work site where necessary, must be properly dressed after cutting cleaning and clearing all varieties of jungles and shrubs including bamboo clusters or any considerable vegetation from within the boundary or alignment of site of works, for which nothing will be paid extra, unless specifically provided in the priced schedule.

7. Serviceable materials

The responsibility for stacking the serviceable materials obtained during execution (to be decided by the Engineer) and handing over the same to the Engineer of work of these departments lies solely with the Contractor and nothing will be paid on this account.

8. Unserviceable materials:

The Contractor shall remove all unserviceable materials at the places as directed. He should level and dress up the work site after completion of work as per direction of the Engineer of work. No extra payment will be made on this account unless specifically provided in the Price Schedule.

9. Labour:

The Contractor shall unless otherwise provided in the Contract make his own arrangement for the engagement of all staff and labour local or other and for their payment housing, feeding and transport.

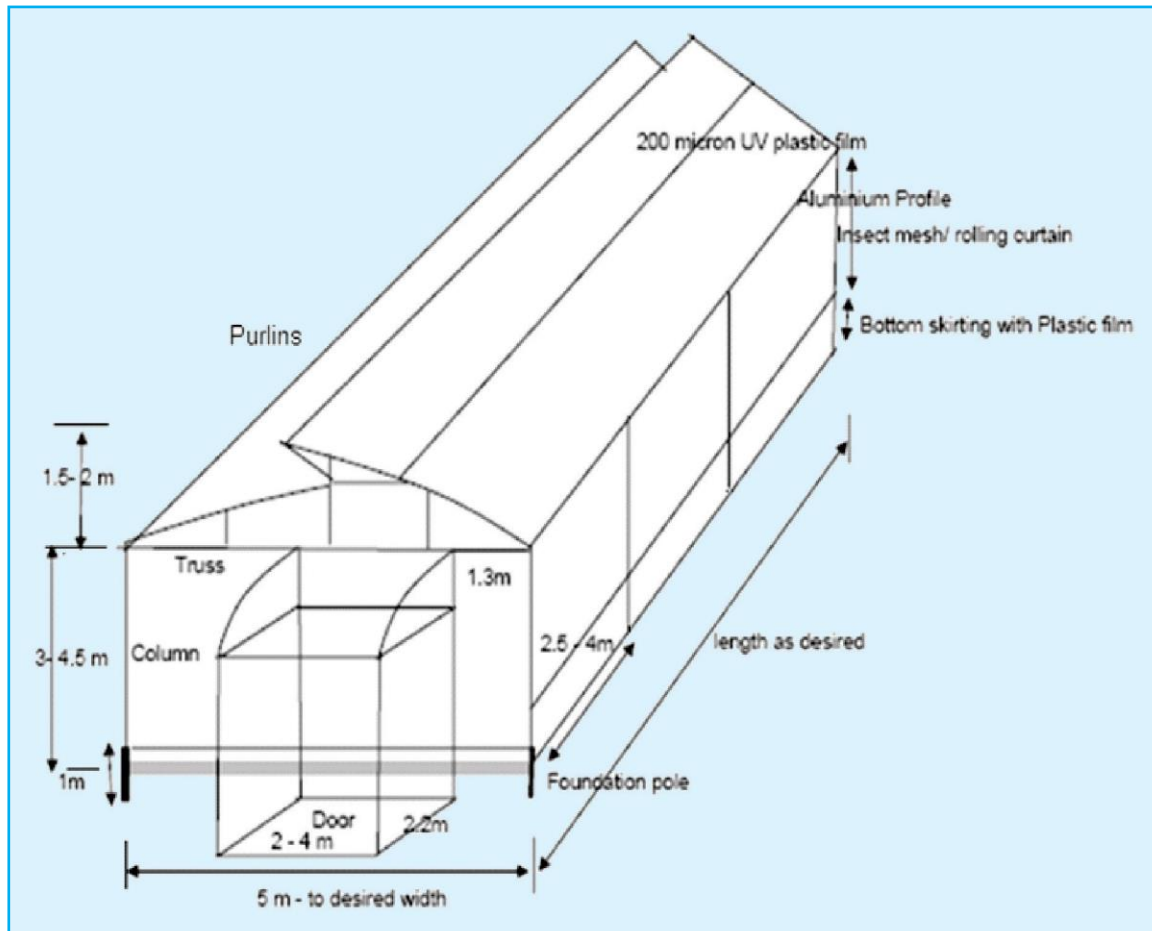
10. Compliance with labour regulations:

[During continuance of the contract, the Contractor and his sub contractors shall abide at all times by all existing labour enactments and rules made there under regulations, notifications and by laws of the State or Central Government or local authority and any other labour law (including rules), regulations, by laws that may be passed or notifications that may be issued under any labour law in future either by the State or the Central Government or the local authority.] Salient features of some of the major labour laws that are applicable to construction industries are given below. The contractor shall keep the Employer indemnified in case any action is taken against the employer by the competent authority on account of contravention of any of the provisions of any act or rules made there under, regulations or notifications including amendment. If the employer is caused to pay or reimbursed, such-amounts as may be necessary to cause or observe, or for non-observance of the provisions stipulated in the notifications/bye laws/acts/rules/regulations including amendments, if any, on the part of the contractor the Engineer/Employer shall have right to deduct any money due to the contractor including his amount of performance security. The Employer/Engineer shall also have right to recover from the contractor any some required or estimated to be required for making good the loss or damage suffered by the Employer.

The employees of the Contractor and the Sub-Contractor in no case shall be treated as the employees of the Employer at any point of time.

ANNEXURE-II

Model sketch of the Greenhouse type



ANNEXURE-I

Specification for Construction of Greenhouse

Sl. No.	Items	Description / Specification	Unit	Qty.	Rate	Amount (Rs.)
Part A		High Tech Green House (Including Fabrication, Installation & Transportation)				
1	Type	Naturally Ventilated Greenhouse with Minimum top ventilation saw tooth design & and side ventilation depends on requirement of the climatic condition	Each	2 (Area – 34 m x 15 m = 510 m ²)		
	Size	34 m x 15 m = 510 m ²				
	Bay size	8m x 4m, Width of greenhouse should be at least 35 % of the desired length.				
	Ridge height	6.5m to 7m				
	Ridge Vent	80-90 cm opening fixed with 40 mesh nylon insect screen				
	Gutter height	4 - 4.5 m from floor area				
	Gutter slope	2% slope need be provided in civil foundation work/ structure				
	Gutter material	20 gauge or 1 mm thick GI sheet with perimeter of 500 mm or more preferably of single length without joint				
	Structural design	The structural design need to be sound enough to withstand wind speed minimum 150 km/hr and minimum load of 25 kg/m ² . There should be provision for opening one portion at either side for entry of small tractor/power tiller for intercultural practices. The firm needs to highlight design features and list of greenhouse clients.				
	Structure	Complete structure made of galvanized steel tubular pipes or equivalent section conforming Indian Standards having wall thickness 2mm, structural member should be joined with fasteners properly.				
	Columns	76 mm OD, 2 mm thick				
Trusses	Bottom & top cord 60 mm OD, 2 mm thick					
Trusses member	48 mm OD, 2 mm thick					

Purlin	42 mm OD, 2 mm thick				
Purlin member & others	33/25 mm, 2 mm thick				
Foundations	Insert GI pipes of minimum 60 mm OD or more to have foundation depth of 75 cm or more depending upon soil type and prevailing wind condition, grouted with cement concrete mixture of 1:1.5:3 using telescopic insertion of column.				
Fasteners	All nuts & bolts must be of high tensile strength and galvanized.				
Entrance room & Door	One entrance room of size 3 m x 3 m x 3 m (L x W x H) need to be provided and covered with 200 micron UV stabilized transparent plastic film. Two hinge doors of size 2 m width & 2.5 m height double leaf made in plastic/FRP sheets mounted in suitable strong frame.				
Cladding material	UV stabilized 200 micron transparent Plastics films conforming Indian Standards (IS 15827: 2009), multilayered, anti drip, anti fog, anti sulphur, diffused, clear and having minimum 85% level of light transmittance.				
Fixing of cladding materials	All ends/joints of plastic film need to be fixed with two way aluminum profiles with suitable locking arrangement along with curtain top. Wooden batons or PVC grippers need not be used.				
Spring Insert	Zigzag high carbon steel with spring action wire of 2-3 mm diameter must be inserted to fix shade net into Aluminum Profile.				
Curtains and insect screen	Roll up UV stabilized 200 micron transparent plastic film as curtains need be provided up to 3.0 m height on all sides having automatic type motor operated crank mechanism. However, provision for manual opening and closing of curtains need also be provided. 40 mesh nylon insect proof nets (UV stabilized) of equivalent size need to be fixed inside the curtains. Anti flapping strips is suggested to ensure smooth functioning of the curtain.				
Shadenet	UV stabilized 50% shading net with motor/ manually operated mechanism for expanding and retracting. Size of net should be equal to the floor area of greenhouse.				

	Drip Irrigation System with fogging & misting facility	Drip irrigation system under greenhouse need to be selected on the basis of crop spacing (design on spacing 45cm x 45 cm) along with fogging and misting facilities. The spacing considered for calculation The suggested bill of materials are Sand Filter 5 m ³ /hr, Screen Filter 10 m ³ /hr, Control Valve 63 mm, Control Valve 50mm, By-pass Assembly 1.5", Air Release Valve 1", Non Return Valve 1.5", Throttle Valve 1.5", Flush Valve 50mm, Venturi1.5" Assembly with manifold, PVC pipe 63 mm/6 kg cm ² , PVC pipe 50 mm/6 kg/cm ² , PE plane lateral 16 mm, Emitting pipe lateral 16mm- @ 0.45m spacing, hanging type micro sprinkler nozzle (four-way take off assembly) for very fine water particles (foggers & mister) to be fixed in PE pipe of diameter 16mm, Water tank of capacity 5000 liter and fittings & accessories.				
	Footpath	1m wide and 10 cm thick footpaths should be provided in the centre (length x width) & made of cement concrete ratio of 1:2:4.				
	Curtain wall/ Apron	22cm brick wall of 1m height (24 cm below and 80 cm above ground level on all the four sides. The wall needs to be plastered and water proofing cement with 1:6 ratio.				
	Double Door Room as office	6 m x 4 m x 2.5 m - covered with 200 micron poly film				
	Door	Size 2 m x 1.2 m long & wide normally lockable made with clear 6 mm polycarbonate glazing, top & bottom tracks, jambs, flashings & installation hardware-2nos				
Part B		Surrounding Green House				
2	Submersible pump	Digging of one Bore well of 250 mm dia for depth 250 metre with one submersible pump (1.5 HP) KSB 28 stage & one controlled panel board along with 1000 Litre Storage Capacity in PVC Tank including 200 mm dia PVC high density casing pipe up to 30 m, 125 mm dia high density casing pipe (blind pipe) up to 180 m, 125 mm dia high density PVC strainer of 70 m, 32 mm PVC column pipe of 100 m including fitting fixing complete	Each	1		
3	Vertical Farming System	Iron rack with adjustable perforated stand of size 35 mm x 35 mm x 5.5 mm & MS sheet of 16 gauge including priming & two coat painting in one fourth area of one greenhouse (510 m ²)	Each	10		
4	Chain Link Fencing	G.I chain link fencing 75 mm x 75 mm mesh 12 g wire fixed with MS angle (1.8 m length) of size 40x40x55 mm @ 3.0 mtr % with galvanized hooks or staples etc. complete by fixing of post 400-450 mm depth with cement concrete (1:2:4)	m ²	500		
5	Sterilization Unit	12" x 20" with auto cut (2-phase electricity)	Each	1		

	(Autoclave)					
6	Surface dressing & Levelling	Approx. 400 m ² area of low land has to be filled up to 1.5 m height by cutting earth from existing land and prepare with brick flat soling and concreting at foundation bottom	Cum	600		
7	Approach Road with Solar light	From existing up to greenhouse with spreading moorum with proper sand fill after dressing & chilchalling including cutting and filling with earth up to 150 mm average thickness Total area should be well lightened	Each	1		
8	Replica Model	Model of size 1 m x 1 m x 0.5 m with similar features for testing of seeds	Each	1		
Part C		Provide with Part A & Part B by Contractor				
1	Warranty	Free maintenance for one year from the date of installation.				
	Training	Free training for operation, maintenance & production for one year.				
	Testing	All plastic materials used in the greenhouse should be tested by the CIPET for quality assurance (If necessary).				

We agree to execute the works in accordance with the approved drawings & technical specifications with the total contract price of Rs.

(amount in figures) (Rs. amount in words).

Signature of Contractor