

(REVISED)
CONTRACT FROM THE EXECUTIVE OF WORKS
GOVERNMENT OF THE PUNJAB

PUNJAB BUILDING DEPARTMENT
TENDER/CONTRACT DOCUMENTS

Name of Work:- _____

Name of Contractor: - _____

Estimated Cost of Work Rs:- _____

Amount of Earnest Money Rs:- _____

Deposit at Call No:- _____

Treasury Challan No:- _____

Time Limit:- _____

Stereo LB No, 386 (revised)

Agreement No.-----

Stereo I.B No. 389 (revised)

Stereo I.B No. 28(revised)

Stereo I.B No. 29(revised)

UNIVERSITY OF AGRICULTURE, FAISALABAD

ITEM RATE TENDER & CONTRACT FOR WORKS

- | | | |
|---|------------------------------------|--|
| 1 | Name of work | 1. Construction of a Screen House (50'x30'x12')
(Fruit Vegetable Crops) with Controlled
Irrigation at University of Agriculture,
Faisalabad |
| | | 2. Construction of Growth Room for Light and
Temperature Control at Institute of Horticulture
& Sciences at UAF |
| | | 3. Construction of Mist Unit (Fruit Crops)
Temperature Controlled at UAF (Under PARB
Project # 20-36) |
| 2 | Estimated cost | Rs. 3.188Million/-, Rs. 2.289Million/-,
Rs. 1.494Million/- |
| 3 | Time for completion | 02-Months, 02-Months, 02-Months |
| 4 | Amount of Bid Security | PKR----- Million (s) |
| 5 | Issued to | -----
----- |
| 6 | Pre-tender conference | ----- |
| 7 | Dead Line for submission of Tender | 15-06-2023 up to 11:00AM----- |
| 8 | Opening of Tender | 15-06-2023 up to 11:30AM----- |
| 9 | Issued by | Executive Engineer, University of Agriculture,
Faisalabad.

Signature:-----

Date:----- |

OFFICE STAMP

Note: The officer opening the tender shall reject the tender which does not bear the stamp and signature of the issued official and which is not submitted by the same contractor to whom the tender form was issue

**GENERAL DIRECTIONS FOR
THE GUIDANCE OF THE TENDERER**

1. These directions are provided to assist the tenderer in preparing and submitting his tender. The tender shall contain all information and data required to be furnished and shall be prepared and submitted in accordance with the instructions set forth herein.
2. All necessary documents, such as copies of specifications (excluding standard specification books, MRS, **1st Bi-Annual 2023 District Faisalabad**), contract documents, including bill of quantities, estimated scheduled rates and any other documents required in connection with the preparation of tender or execution of works, signed by the engineer-in-charge will accompany the tender form and the cost of such annexed documents will be reflected in the cost of the tender form.
3. The tenderer will not be reimbursed for any costs of any kind, whatsoever, incurred in connection with the preparation and submission of his tender.
4. No single tender shall include more than one work. A tenderer who wishes to tender for two or more works shall submit tender for each work, separately.
5. The memorandum of work tendered for, and the schedule of materials and equipment to be supplied by the engineer-in-charge and the rates at which they are to be charged for (annexed hereto) shall be filled in the office of the engineer-in-charge before the tender form is issued. At this stage the tenderer should ensure that the tender form so issued is complete in all respects.
6. The tenderer shall note that the ultimate responsibility for the quality of work and its conformity with the specifications and drawings rests solely with the successful bidder whose tender is accepted.
7. The tenderer shall, at his own expense, inspect and examine the site and surroundings and obtain for himself, on his own responsibility, all information that may be necessary for preparing the tender and entering into contract, and shall determine and satisfy himself by such means as he may consider necessary or desirable as to all matters pertaining to the tender. The tenderer shall also satisfy himself before submitting his tender as to the nature of grounds, hydrological and climatic conditions, the form and nature of the site, the nature and lay out of the terrain, the availability of labour, water, electric power and transportation facilities in the area. The tenderer shall specially investigate into the sources of materials to be used for the works and satisfy himself about the quality and quantities of materials available for the completion of the work and the means of access to the site, the accommodation he may require and, in general, shall himself obtain all necessary information, as to the risks, contingencies and other circumstances which may influence or affect his tender. The engineer-in-charge shall not assume any responsibility regarding information gathered interpretation or deduction, which the tenderer may arrive at, from the date that may be furnished with the contract documents.
8. (a) The tenderer shall fill up the Bill of Quantities and indicate the percentage rate above or below the MRS of rates for the "MRS items" on which he is willing to undertake each item of work. No premium will be quoted by the contractor against non-MRS/item rates, for which the rate and amount has already been filled in by the engineer-in-charge in the bid schedule.

- (b) In case tenders are called on item rate basis, the tenderer shall quote his own unit rate in the Bill of quantities on which he is willing to undertake each item of work.
9.
 - i. The tender shall work out the amount against each item of work in the Bill of Quantities and will indicate the total amount of his tender (including the cost of Non-MRS items rates for which the rate and amount has already been filled in by the engineer-in-charge in the Bill of Quantities) on which he is willing to complete the works. The total amount worked out in the Bill of Quantities shall be entered by the tenderer in his tender as his tender price for the work. In case of discrepancy between amounts in figures and in words, the amount in words shall prevail.
 - ii. Should any discrepancy be found in the amount of pay items or if a column of amount is found blank after filling in a unit rate, the unit rate filled by the tenderer will be extended in working out of the amount of the tender and the total amount of the bid schedule will be adjusted accordingly.
 - iii. If a unit rate is left blank, but the amount against the item is filled, the unit rate will be worked out on the basis of the amount divided by the quantity of the item shown in the bid schedule.
 - iv. If it is found that the tenderer has not entered any unit rate and amount against any of the pay items of the bid schedule, the engineer-in-charge shall fill in the blanks by noting the word "NIL" In such blanks at the time of opening of the tender. Such pay items shall be deemed to be covered by the rates of other items.
 - v. If the tenderer does not accept the adjusted/corrected amount of tender according to the above provision, his tender shall be rejected and the earnest money forfeited.
 10. The tender which proposes any alteration in the works specified in the Bill of quantities or in the time allowed for carrying out the works or any other condition mentioned by the Engineer-in-charge, will be liable to rejection. The tenderer shall sign each and every page of the tender and contract documents, without making any alteration. All enclosures issued with the contract documents, shall be attached with the tender duly signed by the tenderer. Any addition or alteration made after filing the forms shall duly attested by the tenderer. Non-compliance of this condition shall render the tender liable to rejection.
 11. The tenderer shall fill in the tender documents, in ink. Errors, if any, shall be scored out, and corrections re-written legibly and attested by the tenderer. Any addition or alteration made after filling the form shall be duly attested by the tenderer. Non-compliance of this condition shall render the tender liable to rejection. Any tender with unattested correction shall be attested by the tenderer in the presence of other tenderers at the time of opening of the tender except that no correction shall be permissible in the rate or amount of the bid schedule or in the tendered price after the opening of the tender.
 12. Additional Clause (s) for a particular work shall be typed on separate sheet(s) by the Engineer-in-charge, which will be annexed to the contract documents specifying the number of sheets. The tenderer shall not add or delete any additional clause(s) in the additional clauses sheet (s), provided by the Engineer-in-charge.
 13. The quantities mentioned in the Bill of Quantities are estimated quantities, to be used for preparing tenders, and the Engineer-in-charge does not expressly nor by implication agree that the actual amount of works to be performed will correspond therewith. No payment will be made on account of anticipated profits for work covered by the contract which is not performed, nor will any adjustment in the unit rates set forth in the bid schedule be made because of an increase or decrease in the

actual quantities from the estimated quantities indicated therein, except as determined in accordance with the provisions of Clause 42 of the general conditions of contract.

14. No tender without earnest money shall be entertained, earnest money, calculated @ 2% of the estimated cost of the work (rounded suitably), shall be in the form of 'deposit at call receipt'. The earnest money of the unsuccessful tenderers shall normally be returned by the Engineer-in-charge within a week of opening of the tenders and in any case not later than sixty (60) days following the date set for opening of tenders. In the event of the tender being accepted, or receipt for the earnest money forwarded therewith, shall thereupon be given to the contractor. The earnest money of the successful tenderer on execution of the contract covering work will be adjusted towards the amount of security deposit to be retained from the first amount (s) payable to the contractor under the contract.
15. The successful tenderer will be required to enter into a contract, furnish the performance security (where-ever required) and to commence the work within the time specified in the memorandum of work. Should the successful tenderer refuse or fail for any reason to enter into contract, or to furnish the performance security or to commence the work within the time specified in the memorandum of work, it should constitute a just cause for the annulment of the award and in the event of such annulment, the entire earnest money shall be forfeited to Government, as compensation for such default.
16. (i) The tender shall be signed by the person (s) duly authorized to do so. In the event of the tender being submitted by a firm, it shall be signed separately by each member thereof, or in the event of the absence of any partner, it shall be signed on his behalf by a person holding a power of attorney authorizing him to do so. Such power of attorney should be produced with the tender and it must disclose that the firm is duly registered under the Partnership Act, 1932, or any other law in force.
(ii) The tender submitted by a joint venture of two or more firms shall be accompanied by a document of formation of the joint venture, duly registered and authenticated by competent court, in which shall be stated precisely, the conditions under which it shall function, its period of validity, the person (s) authorized to represent it and accept it obligate, the participation of several firms forming the joint venture and any other information of necessary to permit a full appraisal of its function.
(iii) A tender submitted by a corporation must bear the seal of the corporation and be attested by its Secretary.
(iv) In all cases, the tender must be signed by an individual or individuals having powers to legally bind the firm, joint venture, corporation or companies on whose behalf they are signing.
17. Each tenderer shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his tender and of the rates and prices stated in the bid schedule which rates and prices shall, except in so far as it is otherwise expressly provided in the contract, cover all obligations under the contract and all matters and things necessary for the proper completion and maintenance of the works.
18. The tenderer may modify or withdraw his tender after submission, provided that the

modification or notice of withdrawal is received in writing by the engineer-in-charge prior to the prescribed deadline for submission of tenders. The tenderer's modification or notice of withdrawal shall be prepared, sealed, marked and delivered, with the inner envelopes additionally marked "MODIFICATION or WITHDRAWAL as appropriate. No tender may be modified subsequent to the deadline for submission of tender. Withdrawal of a tender during the interval between the deadline for submission of tenders and the expiration of the period of tender validity i.e. sixty (60) days as specified by the tenderer in the Form of Tender may result in the forfeiture of the tender security.

19. The tenderer shall submit the original Tender Documents complete in all respects and keep a copy of the tender for his own record. The original should be sealed in an inner and an outer envelope, duly marking the envelopes as "ORIGINAL". The inner and outer envelopes shall (a) be addressed to engineer-in-charge (b) and bear the following identification: Tender for (Name of Contract), (Reference Number of Tender), and the words "DO NOT OPEN BEFORE (Time and Date, set for opening)". The inner envelopes shall indicate the name and address of the tenderer to enable the tender to be returned unopened in case it is declared to have been received late or is otherwise unacceptable. If the outer envelope is not sealed and marked and instructed above, the Engineer-in-charge will assume no responsibility for the misplacement or premature opening of the tender submitted. A tender opened prematurely because of improper identification will be rejected.
20. The tenderer shall indicate in the space provided in the tender his full and proper address at which notice may be legally served on him and to which all correspondence in connection with his tender and the contract is to be sent.
21. The presentation of a tender implies full acceptance on the part of the tenderer of these instructions and all other conditions set forth in the contract document.
22. Any tender received by the Executive Engineer (Engineer-in-charge) after the deadline for submission of tenders prescribed in the Notice Inviting Tenders will be returned unopened to the tenderer.
23. The Engineer-in-charge or his duly authorized officer (not below the rank of Assistant Engineer) will open tenders in the presence of intending tenderers or their authorized agents, who may be present at the time. The officer opening the tender will announce the names of the tenderer, tender rates and the presence of requisite tender security.
24. Promptly after the opening of Tenders, the Engineer-in-charge will undertake a detailed evaluation of tenders. The Engineer-in-charge will determine whether each tender is substantially responsive to the requirements of the tender documents and conforms to all the terms, conditions and specifications of the tender documents without material deviation or reservation. If a tender is not substantially responsive to the requirements of the tender documents, it will be rejected by the engineer-in-charge and may not subsequently be made responsive by the tenderer having corrected or withdrawn the non-confirming deviation or reservation.
25. Except for information to be read out by the Engineer-in-charge at the time of opening tenders in accordance with Para 23 above, no information relating to the

examination, clarification, evaluation and comparison of tenders and recommendations concerning the award of contract shall not be disclosed to tenderers or other persons not officially concerned with such process. Any effort by the tenderer to influence the process of examination, clarification, evaluation and comparison of tenders, and in decisions concerning award of contract, may result in the rejection of his tender.

26. To assist in the examination, evaluation and comparison of tenders, the Engineer-in-charge may ask tenderers individually for clarification of their tenders, including breakdowns of unit rates. The request for clarification and the response shall be in writing or by cable, but no change in the price or substance of the tender shall be sought, offered or permitted except as required to confirm the correction of arithmetical errors discovered by the Engineer-in-charge during the evaluation of the tender.
- 26 In case the total tendered amount is less than 5% of the approved Estimated (DNIT) amount, the lowest bidder will have to deposit Quality Assurance Security from the Scheduled Bank equal to the amount of difference between approved DNIT amount and the quoted bid amount as given below, within 15 days of issuance of the notice or within expiry period of bid, whichever is earlier.

TOTAL TENDERED AMOUNT BELOW CORRESPONDING ESTIMATED COST.	ADDITIONAL PERFORMANCE SECURITY.
5%	5%
6%	6%
7%	7%
8%	8%
9%	9%
10%	10%
& So on	& So on

27. The Engineer-in-charge shall have the right of rejecting all or any of the tenders without assigning any reason thereof. The Engineer-in-charge will not be bound to award the contract to the lowest or to any other tenderer.
28. The unit rates and prices entered in the bid schedule will be the rates at which the contractor will be paid (subject to the adjustment specified in clause 55 of the annexed conditions) and shall be deemed to include all costs of performing the work, including income tax, super tax and/or other charges, duties and taxes of the Government, autonomous, semi-autonomous and local bodies, profits and costs of accepting the general risk, liabilities and obligations set forth in or implied from the contract.
29. Prior to the expiration of the period of tender validity (60 days) prescribed in the Tender Form or any extension thereof that may have been granted by the tenderer, the Engineer-in-charge will notify the successful tenderer by cable and confirm in writing by registered letter that his tender has been accepted. This letter of acceptance shall name the sum which will be paid in consideration of the execution, completion and maintenance of the works as prescribed in the contract, (hereinafter called the contract price). The notification of award will constitute the formation of the contract.
30. At the time, the Engineer-in-charge notifies acceptance of the tender to the tenderer he will send the tenderer the Form of Agreement provided in the tender documents, incorporating all

agreements between the parties. Within fifteen (15) days of receipt of the Agreement, the successful tenderer shall furnish the performance security (10% of the Contract Price) and sign the contract in the presence of the Engineer-in-charge.

31. After the successful tenderer has signed the contract furnished adequate performance security the Engineer-in-charge will notify to the unsuccessful tenderers that they were unsuccessful.
32. The completion period will be reckoned from the date of delivering the award or the handing over of the site to the contractor, whichever is later.
33. A copy of the contract agreement may be obtained by the contractor at his own cost..

TENDER FOR WORK

To

The Executive Engineer

Dear Sir,

I/We.....

(Name of the contractor)

The undersigned tenderer, having examined the conditions of contract, specification, drawing bid schedule and addenda Nos..... thereto, for the work of

(Name of the work)

and the works associated therewith, and having examined the site of the above named works, or having caused the site to be visited OR our behalf by my/our competent and reliable agent, and having satisfied myself/ourselves as to all conditions under which the above named work must be performed, hereby offer to execute, complete and maintain the whole of the above mentioned work including its ancillary works associated therewith, in accordance with the said contract documents, including the addenda indicated above, at tender price of Rs. (Rupees).....

Or such other sums as may be ascertained in accordance with the said conditions of contract and the rates, and the prices set forth in the bid schedule.

2. As security for the due performance of the undertaking and obligations of this tender, I/We submit herewith a deposit at call receipt No..... dated. In the amount of Rs.....(Rupees.....from.....the.....BankBranch)drawn in your favour or may payable to you as earnest money, the full value of which will be absolutely forfeited to Government,, without prejudice to any other rights or remedies of the said *Government*, should I/We withdraw or modify' the tender within its validity period of sixty (60) days, following the date of receipt of tender.
3. I/We understand that if my/our tender is accepted, the foil value of the earnest money as attached with the tender shall be detained by *University* towards the amount of security deposit specified in clause 48 of the said conditions of contract and item (d) of the Memorandum of work.
4. Should this tender be accepted by you, I/We hereby undertake:-
 - (a) To sign ail the necessary documents for entering into a contract agreement in the form set out In the contract document within fifteen (15) days following your notification of such acceptance.
 - (b) To commence the work within the stipulated time named in item (f) of memorandum hereto annexed following the date of issuance of your order to proceed with or the handing over of the site, whichever is later and in the event of my/our failure to do so, the entire amount of earnest money deposited by me/us for which deposit at a call receipt is enclosed herewith, is to be absolutely forfeited to the University.. On the commencement of work, I/We hereby also agree to abide by and fulfill all the terms or provisions of the said conditions of the contract annexed hereto so far as applicable and in default thereof, to forfeit and pay to the University the sums of money mentioned in the said conditions.
 - (c) To complete and deliver the whole work comprised in the contract within the time stipulated in item no. (g) Of the Memorandum hereto annexed, subject to such extension in the time limit as may be granted under the conditions of contract.
 - (d) the furnishing of performance security under item (h) of the memorandum annexed hereto, in the sum equal to 10 (ten) percent of the cost of the work in same form sum equal to 10 (ten) percent of the cost of the work in the same form and on the same condition as are prescribed by and to the satisfaction of the Engineer-in-charge.
5. I/We also agree that when materials and/or equipment for the work are provided by the t, the rates

to be paid for them shall be as provided in Appendices annexed hereto.

6. I/We agree to abide by this tender for the period of sixty (60) days following the date set for receiving of tenders and it shall remain binding upon me/us and may be accepted by you at any time before the expiration of that period.
7. Unless and until a formal agreement is prepared and executed, this tender, together with your written acceptance thereof, shall constitute a binding contract between us, and shall be deemed for all purposes to be the contract agreement.
8. I/We understand that you are not bound to accept the lowest or any tender you may receive, and that you will not defray any expenses incurred by me/us in tendering.

Thanking you,

Yours faithfully,

(Signature of Tenderer)

Dated thisDay
NAME.....

Of20...

*Address.....

I hereby accept the above tender on behalf of the Government.

(Signature of Executive Engineer)

*In case the above address is changed, the contractor will immediately notify in writing to the *Executive Engineer* his new address.

MEMORANDUM OF WORK

- | | | |
|----|--|---|
| a) | General Description | <p>1. Construction of a Screen House (50'x30'x12') (Fruit Vegetable Crops) with Controlled Irrigation at University of Agriculture, Faisalabad</p> <p>2. Construction of Growth Room for Light and Temperature Control at Institute of Horticulture & Sciences at UAF</p> <p>3. Construction of Mist Unit (Fruit Crops) Temperature Controlled at UAF (Under PARB Project # 20-36)</p> |
| b) | Estimated bid Cost | <p>Rs. 3.188Million/-, Rs. 2.289Million/-, Rs. 1.494Million/-</p> |
| c) | Amount of bid security to accompany the tender (to be furnished by the tenderer in the shape of “deposit at call” from a scheduled Bank of Pakistan) | <p>Rs. 63,760/-, Rs. 45,780/-, Rs. 38,980/-</p> |
| d) | Percentage of security deposit to be retained forms the bills. | |
| | i) On the amount of work done up to Rs.5.0 million | Ten (10) percent |
| | ii) On the amount of work done beyond Rs.5.0 million. | Five (5) percent |
| e) | Minimum amount of interim running bills | Rupees five million (Rs.----- only |
| f) | Mobilization period | Fifteen (15) calendar days |
| g) | Time allowed for completing the work after the expiry of mobilization period | -----calendar months |
| h) | Amount of performance security in the form of Bank Guarantee (see contract conditions clause 7 and General direction 26 (a) | Five (05) percent of the accepted tender price in the case of tenders with cost of exceeding Rs.50.00 million and as per general condition 26(a) for all tenders. |
| i) | Period of maintenance (after the date of issuance of certificate of completion) | Twelve (12) calendar months. |

SUMMARY OF COST

CONSTRUCTION OF A SCREEN HOUSE (50'X30'X12') (FRUIT VEGETABLE CROPS) WITH CONTROLLED IRRIGATION AT UNIVERSITY OF AGRICULTURE, FAISALABAD

Sr.#	DESCRIPTION	TOTAL AMOUNT (PKR)
1	Civil Work	
Total Amount (PKR) Without PST		
Add PST @ 5%		
Total Amount (PKR)		

Amount in Words:_____

Sr. #	Ref.	DESCRIPTION	Unit	QTY	Rate	Amount
		<u>Civil Work</u>	-			
1	ch.3/21	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m) in ordinary soil.	1000 Cft.	960.00		
2	ch.6/3ii	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- (b) Ratio 1: 4: 8	100 Cft	240.00		
3	ch.7/4	Pacca brick work in foundation and plinth- (i) cement, sand mortar:- Ratio 1:5	100 Cft	950.00		
4	ch.6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio1: 2: 4	100 Cft	220.00		
5	ch.11/9b	Cement plaster 1:4 upto 20' (6.00 m) height:- ½" (13 mm) thick	100 Sft	750.00		
6	ch.18/19	Providing and laying dry brick pavement/soling in streets or roads, etc. sand grouted, laid in proper camber, including preparation, watering, compaction of bed to proper camber, and sand cushion.	100 Cft	750.00		
7	ch.7/30	Supplying and filling sand under floor; or plugging in wells	100 Cft	375.00		
8		<u>Main Arc</u> P/F 09 No main arc (structure) material galvanized elliptical oval hollow section size (Approx) 66 × 44 × thickness 2 mm with front back vertical & horizontal support with arc connection piece material 54 × 38 × 2 mm G.I nuts bolts and screws , complete in all respect.	RFT	918		
9		<u>Horizontal Support</u> P/F vertical Center Support hollow section OD-45 total Rft 400 rft nut bolts spacer U clamps complete in all respect.	RFT	550		
10		<u>GI wire</u> P/F horizontal & vertical galvanized wire thickness 2 mm for front, back & top for holding SS wire mesh, khana size (approx 300 x 300 mm) Complete in all respect.	RFT	8000		
11		<u>Base Plate</u>	No	30		

		P/F MS base plate size, L-200 × w-100 × thickness 4 mm with elliptical (oval) hollow section size OD-47 thickness 2.4 mm. Complete in all respect.				
12		<u>J Bolt</u> P/F Grouting of J bolts size, L-450mm, thickness 12 mm with thread on bolts. One coat of red oxide for rust proofing with spacer & nuts. Complete in all respect.	No	60		
13		<u>Angle Iron</u> P/F M.S angle iron size, (approx 50 × 50) thickness 4 mm for holding SS mesh & GI wire. One coat of red oxide for rust proofing & one coat of enamel paint. Complete in all respect.	RFT	150		
14		<u>Aluminum Strip</u> P/F Aluminum flat strip size, 20 × 1.5 mm for holding of SS wire mesh with aluminum blind rivets. Complete in all respect.	RFT	400		
15		<u>Sliding door(I)</u> P/F Front & back side sliding door size, 10' x 8' material MS hollow section size 60x30x1.5 mm MS T-iron for railing line solid bar 9x9mm complete in all respect.	No	1		
16		<u>Sliding door(II)</u> sliding door MS hollow section size 60x30x1.5 mm i/c glass, wheel roller complete in all respect.	No	1		
17	ch.25/2	<u>Entrance Cabin</u> P/F front side entrance cabin, size, back height-2440mm, front height-2080mm, width-1825mm, depth-1370mm, material MS hollow section size, 60 × 30 × 1.5 mm with cabin double door, with door closer with handle with G.I sheet 1mm on top. Complete in all respect.	P. sft	39		
18	N.S item 15	<u>Green net</u> P/F Green net, Polyethylene, shading capacity 70% density = 70gm/100sq-ft (3) complete in all respect.	SFT	3250		
19	N.S item 21	<u>SS Wire Mesh</u> P/F SS Wire mesh imported size mesh (approx 40 x 40 x thickness 0.32 mm) material SS 304 for covering of Screen House & front cabin & all doors. All joint sewing with SS wire, Complete in all respect.	SFT	2600		

20	N.S item 24	<u>Wire Rope</u> P/F steel wire rope 3 mm PVC coated i/c clamp, Hock Complete in all respect.	RFT	325		
21		<u>Table</u> P/F Table for nursery plants, size, length-2100 x width-910 x height-760 mm, main structure material and supporting M.S angle iron size, \pm 38x38x4 mm with 04 No legs. Table top material galvanized mesh thickness 2 mm (khana approx 25 mm) with one coat red oxide & two coat enamel paint, complete in all respect.	No	8		
22	N.S item 06	<u>Exhaust fan</u> P/F Propeller (Exhaust Fan with MS frame thickness 1mm with shutter 6 blades, size 1050mm x 1050mm x 400mm complete in all respect.	No	2		
23	N.S item 05	<u>water pump</u> P/F Mono Block water pump with motor mono section 2" x 1/4" i/c elbow socket, union i/c check wall MS frame with cover complete in all respect.	No	1		
24	N.S item 07	<u>Electric panel</u> P/F Electric panel size 600 x 450 x 250 mm MCB three phase 80Amp breaker 20Amp three phase breaker 20Amp single pole breaker 13Amp single pole Amper meter, voltmeter, i/c light on/off switch glass 5mm panel lock powder coating paint Complete in all respect.	No	1		
25	N.S item 08	<u>LED light</u> P/F LED flood light Imported (Philips) 100 watts daylight with fitting, complete in all respect.	No	4		
26	N.S item 02	<u>Fiber water tank</u> P/F Fiber Glass Double ply water Tank capacity 300 gallon complete in all respect.	No	1		
27	N.S item 02	<u>Fiber water tank</u> P/F Fiber Glass Double ply water Tank capacity 300 gallon complete in all respect.	No	1		
28	Ch. 24 10-a-iii	Supply and erection of single core PVC insulated copper conductor cables, in prelaidd PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only):- (3/0.029")	Per Rft	300		

29	Ch. 24 10-a-v	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only):- (7/0.029")	Per Rft	300		
30	Ch. 24 10-a-iv	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only):- (7/0.036")	Per Rft	150		
31	ch.24/13vi	Supply and erection of copper conductor cables for service connection, in prelaid pipe/G.I. Wire / trenches, etc. (rate for cable only):- PVC insulated, PVC sheathed 4 core, 600/1000 volt non armoured 6 mm (7/0.044")	Per Rft	120		
32	ch.23/47 ii	Providing, laying, testing and commissioning of POLYPROPY LENE RANDOM COPOLYMER (PPRC) water supply pipe (Dadex / Popular / Beta or equivalent) with specified pressure rating PN (PRESSURE NOMINAL) and conforming to DIN 8077-8078 code i/c cost of solvent, specials, making jharries complete in all respect as approved and directed by Engineer Incharge.(Internal/External Diameters mentioned). (ii) (3/4") 25 mm	Per Rft	200		
33	ch.23/47 iii	Providing, laying, testing and commissioning of POLYPROPY LENE RANDOM COPOLYMER (PPRC) water supply pipe (Dadex / Popular / Beta or equivalent) with specified pressure rating PN (PRESSURE NOMINAL) and conforming to DIN 8077-8078 code i/c cost of solvent, specials, making jharries complete in all respect as approved and directed by Engineer Incharge.(Internal/External Diameters mentioned). (iii) (1") 32 mm	Per Rft	180		
		Total Rs.				

SUMMARY OF COST

CONSTRUCTION OF GROWTH ROOM FOR LIGHT AND TEMPERATURE CONTROL AT INSTITUTE OF HORTICULTURE & SCIENCES AT UAF

Sr.#	DESCRIPTION	TOTAL AMOUNT (PKR)
1	Civil Work	
Total Amount (PKR) Without PST		
Add PST @ 5%		
Total Amount (PKR)		

Amount in Words:_____

S.#	Ref.	Description	Unit	Qty.	Rate	Amount
1	ch.3 item 21-b	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m) ordinary soil	1000 Cft	750.00		
2	ch.26/43	Spraying termite proofing by using liquid FMC/ Biflex/Terminex Exin/ Ms Hextar or equivalent @specified suspension concentrate (SC), Mixing Ability-HEXTAR with Ratio (1:250) = 540 Sft or equivalent approved liquid applying with shower and certificate will beprovidedby thecontractorfor 10-years complete in all respect .as approved by the Engineer Incharge.	P. Sft	690.00		
3	ch.6/3b	Cement concrete brick ballast 1 1/2" to 2" (40 mm to 50 mm) gauge, in foundation and plinth ratio (1:4:8).	100cft	160.00		
4	ch.6/5	Cement concrete plain including placing, compacting , finishing and curing complete (including screening and washing of stone aggregate):- Ratio 1: 4: 8	100 cft	62		
5	ch.6/12	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making jointsand fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):- (a) Plain bars ('c) Deformed bars (Grade-60)	100 kg	760.00		
6	ch.6/6	(a) (i) Reinforced cement concrete in roof slab, beams,columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- (3) (c) Type C (nominal mix 1: 2: 4)	per cft	380.00		
7	ch.7/4i	Pacca Brick work in Foundation and Plinth in cement, sand mortar ratio (1:6).	100 Cft	660		

8	ch.6/36	Providing and laying damp proof course of cement concrete 1:2:4 (using cement,sand and shingle) including bitumen coating with one coat bitumen and one coat polythene sheet 500 gauge thick 2")	100cft	63.00		
9	ch.7/5	Pacca Brick work in (1:5) C.S mortar in ground floor .	100 Cft	882.00		
10	ch.3/15	Filling, watering and ramming earth under floors:- i) with surplus earth from foundation, etc.	1000 cft	500.00		
11		Filling, watering and ramming earth under floors:- ii) with new earth excavated from outside, lead upto one chain (05mile)	1000 cft	798.00		
12	ch.11/11	Cement plaster 1:5 on internal walls upto 20' (6 m) height and 1/2" (13 mm) thick.	100 sft	336.00		
13	ch.11/11	Cement plaster 1:5 on internal walls upto 20' (6 m) height and 3/4" (20 mm) thick.	100 sft	420.00		
14	ch.9/5	Single layer of tiles 9"x4½"x1½" (225x113x40 mm) laid over 4"(100 mm) earth and 1" (25 mm) mud plaster without Bhoosa, grouted with cement sand 1:3 on top of RCC roof slab, provided with 34 lbs. per %Sft. or 1.72 Kg/Sq.m bitumen coating sand blinded.i/c P/L polythene sheet 500 gauge	100 sft	195.00		
15	ch.9/18	Construction of Khuras on roof 2' x 2' x 6"	Each	1.00		
16	ch.6/5	Cement concrete plain including placing, compacting , finishing and curing complete (including screening and washing of stone aggregate):- Ratio 1: 2: 4	100 cft	1663		
17	ch.7/30	Supplying and filling sand under floor; or plugging in wells	100 cft	140		
18	ch.10/3	Providing, laying, watering and ramming brick ballast 1½ to 2"(40 mm to 50 mm) gauge mixed with 25 % sand, for floor foundation, complete in all respects	100 sft	140		

19	ch.11/18	Cement pointing deep struck joints, on walls, upto 20' (6.00 m) hieght:- b) ratio 1:3	100 sft	840		
20	ch.10/15	Providing and laying topping of cement concrete 1:2:4, including surface finishing and dividing in panels:- 1½"(40 mm) thick	100 sft	178		
21	ch.10/40	Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels	p.sft	115		
22	ch.6/35	Providing and fixing thermopore (foamed polythene) sheet in horizontal and vertical expansion joints: 1½" (40 mm) thick thermopore sheet	P. Sft	672		
23	ch.23/27b	Providing, laying, cutting, jointing, testing and disinfecting PVC / uPVC pipe line with `B' Class working pressure pipe, in trenches, complete in all respects:- b) 4" i/d (100 mm)	rft	14.00		
24		Providing and installing P.V.C. bends, of B.S.S Class `B' working pressure:- b) 4" i/d (100 mm)	Each	2.00		
25		Shoes, bends or offsets for cast iron rain water down pipe, including fixing and painting.	Each	2.00		
26	ch.9/19	Bottom Khuras of brick masonry in cement mortar 1:6,4'x2'x4½" (1200x600x113 mm) over 3" (75 mm) cement concrete 1:4:8.	Each	3.00		
27	ch.12/51	P/F1-1/2" thick solid flush door comprising of 2.5mm thick Commercial ply compressed over 2.5mm thick commercial ply over 1" thick packing wood in style and rails under proper pressure i/c the cost of nails, tower bolt, handles, glue, sawing charges, Painting charges, sand papering and 3/8" thick matching wooden lipping as approved and directed by the Engineer Incharge.	sft	28.00		

28	ch.12/58	Providing and fixing ornamental wooden architrave 3" x(1½" tapered to ¼") all along the door frame complete in all respect.b) Deodar wood architrave	sft	28.00		
29	ch.11/22	Priming coat of chalk under distemper.	100 sft	672.00		
30		Preparing surface and painting of doors and windows any type (including edges) 3 Coats New Surface	100sft	70.00		
31	ch.11/10	Cement plaster ratio 1:3 under soffit of RCC roof slabs only , upto 20' height. 3/8" (10 mm) thick. (ceiling plaster)	100 sft	188.00		
		Total Rs.				

SUMMARY OF COST

CONSTRUCTION OF MIST UNIT (FRUIT CROPS) TEMPERATURE CONTROLLED AT UAF (UNDER PARB PROJECT # 20-36)

Sr.#	DESCRIPTION	TOTAL AMOUNT (PKR)
1	Civil Work	
Total Amount (PKR) Without PST		
Add PST @ 5%		
Total Amount (PKR)		

Amount in Words: _____

Sr. #	Ref.	DESCRIPTION	Unit	QTY	Rate	Amount
		<u>Civil Work</u>	-			
1	ch.3/21	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m) in ordinary soil.	1000 cft.	266.50		
2	ch.6/3ii	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- (b) Ratio 1: 4: 8	100 Cft	49.83		
3	ch.7/4	Pacca brick work in foundation and plinth- (i) cement, sand mortar:- Ratio 1:5	100 Cft	200.00		
4	ch.6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio1: 2: 4	100 Cft	13.50		
5	ch.11/9b	Cement plaster 1:4 upto 20' (6.00 m) height:- ½" (13 mm) thick	100 Sft	180.00		
6	ch.7/30	Supplying and filling sand under floor; or plugging in wells	100 Cft	125.00		
7	ch.12/10 iem 31	<u>Base channel</u> P/F M.S base channel size, ± 75x32x4 mm with hinges with one coat of red oxide primer and one coats of enamel paint, complete in all respect.	100 kg	160		
8		<u>Main Structure</u> P/F 05 No arcs for main structure metrical galvanized elliptical oval hallow section size, (approx) 58x34 x2 mm with front back and truss support, All welded joints covered with paint with GI nut bolts and spacer, complete in all respect.	RFT	400		
9		<u>U Channel Profile</u>	RFT	780		

		P/F Galvanized U Channel profile size, (approx) 50x30x30x2 mm for holding transparent Polly carbonate sheet, complete in all respect.				
10		<u>Sliding door</u> sliding door MS hollow section size 60x30x1.5 mm i/c glass, wheel roller complete in all respect.	No	1		
11		<u>Entrance cabin</u> P/F entrance cabin size, width- 1525 x depth- 1370 x Height- 1980 mm material M.S hollow section 60x30x1.5mm with double door with one coat of red oxide primer and one coat of enamel paint, complete in all respect.	No	1		
12		<u>Covering Material</u> P/F Top, side walls & front back covered with transparent Polly carbonate sheet twin wall imported thickness sheet 6 mm, fixing with U profile with G I nut bolt, screw, G I spacer and rubber spacer and silicone sealing, ,complete in all respect.	SFT	1050		
13		<u>Shading net</u> P/F Green net 70% (local made) for inside mist propagation unit size green net 18'x18' with manual operates, Both side walls green net Curtin size, 20'x7' with G.I shling wire 3 mm complete in all respect.	SFT	1216		
14		<u>LED Light</u> P/F LED flood light Imported (Philips) 100 watts daylight with fitting, complete in all respect.	No	3		
15		<u>Table</u> P/F Table for nursery plants, size, length-1820 x width-910 x height-760 mm, main structure material and supporting M.S angle iron size, ± 38x38x4 mm with 04 No legs. Table top material galvanized mesh thickness 2 mm (khana approx 25 mm) with one coat red oxide & one coat enamel paint. , complete in all respect.	No	3		
16		<u>Humidity System</u>	Job	1		

		P/F humidity system (Imported)for creates humidity 50 to 80% in mist propagation unit with fogging nozzle humidity auto controller with PP filter and delivery system with fogging pipe UV resident with pump with cover, complete in all respect.				
17		<u>Electric Panel</u> P/F Electric panel size 600 x 450 x 250 mm MCB three phase 80Amp breaker 20Amp three phase breaker 20Amp single pole breaker 13Amp single pole Amper meter, voltmeter, i/c light on/off switch glass 5mm panel lock powder coating paint Complete in all respect.	No	1		
18		<u>Exhaust fan</u> P/F Mono Block water pump with motor mono section 2" x 1/4" i/c elbow socket, union i/c check wall MS frame with cover complete in all respect.	No	1		
19		<u>Ventilators</u> P/F Ventilator frame patti size 1" x 105 sootor SS mesh complete in all respect.	No	4		
20		<u>Water Tank</u> P/F Best quality fiber glass double ply water tank 300 liters with stand, complete in all respect.	No	1		
21	ch.23/47 b-iii ch.24/4ii i N.S2533	<u>Mist system</u> P/F Mist system inside the green house, PPR main supply line size 32 mm, 4 No branch lines PVC pipe size 20 mm with mist nozzles (imported) with valves, elbow, socket, union, tee, barrel nipple and clamp, complete in all respect.	RFT	290		
22		<u>water pump</u> P/F Mono Block water pump with motor mono section 2" x 1/4" i/c elbow socket, union i/c check wall MS frame with cover complete in all respect.	No	1		

23	Ch. 2410-a- iii	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only):- (3/0.029")	Per Rft	200		
24	Ch. 24 10-a-v	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only):- (7/0.029")	Per Rft	250		
25	Ch. 24 10-a-iv	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only):- (7/0.036")	Per Rft	100		
26	ch.24/13 vi	Supply and erection of copper conductor cables for service connection, in prelaid pipe/G.I. Wire / trenches, etc. (rate for cable only):- PVC insulated, PVC sheathed 4 core, 600/1000 volt non armoured 10 mm (7/0.052")	Per Rft	50		
27	ch.23/47 ii	Providing, laying, testing and commissioning of POLYPROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe (Dadex / Popular / Beta or equivalent) with specified pressure rating PN (PRESSURE NOMINAL) and conforming to DIN 8077-8078 code i/c cost of solvent, specials, making jharries complete in all respect as approved and directed by Engineer Incharge.(Internal/External Diameters mentioned). (ii) (3/4") 25 mm	Per Rft	150		

28	ch.23/47 iii	Providing, laying, testing and commissioning of POLYPROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe (Dadex / Popular / Beta or equivalent) with specified pressure rating PN (PRESSURE NOMINAL) and conforming to DIN 8077-8078 code i/c cost of solvent, specials, making jharries complete in all respect as approved and directed by Engineer Incharge.(Internal/External Diameters mentioned). (iii) (1") 32 mm	Per Rft	100		
		Total Rs.				