

(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:- _____

Contractor

Executive Engineer

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. Extension of 2 nd Floor, Finishing Works of Confucius Institute at University of Agriculture, Faisalabad (Package-01)
2	Estimated cost	RS. 177.850Million/-
3	Time for completion	10-Months
4	Amount of Bid Security	PKR----- Million (s)
5	Issued to	----- ----- -----
6	Pre-tender conference	-----
7	Dead Line for submission of Tender	30-06-2022 up to 11:00AM-----
8	Opening of Tender	30-06-2022 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 issued

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**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 2022 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.

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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.

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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

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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 offenders 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-

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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 (A) In case the total tendered amount is less than 5% of the approved estimated (DNIT) amount, the lowest bidder will have to deposit additional performance security from the Scheduled Bank ranging from 5% to 10% as under, within 15 days of issuance of 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%

27. The Engineer-in-charge shall have the right of the 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 un-successful 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.

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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.

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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.

Contractor

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MEMORANDUM OF WORK

- | | | |
|----|---|---|
| a) | General Description | 1. Extension of 2nd Floor, Finishing Works of Confucius Institute at University of Agriculture, Faisalabad (Package-01) |
| b) | Estimated Cost | RS. 177.850Million/- |
| c) | Amount of earnest money to accompany the tender (to be furnished by the tenderer in the shape of “deposit at call” from a scheduled Bank of Pakistan) | Rs. 3.557 Million/- |
| d) | Percentage of security deposit to be retained form 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. |

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SUMMARY OF COST**EXTENSION OF 2nd FLOOR, FINISHING WORKS OF CONFUCIUS INSTITUTE AT
UNIVERSITY OF AGRICULTURE, FAISALABAD (PACKAGE-01)**

SR#	DESCRIPTION	AMOUNT (Rs)
01	Civil Works: (Grey Structure)	
02	Civil Works: (Finishing Works)	
03	Civil Works: (Generator Pad and Transformer Tower.)	
04	Electrical Works :	
05	Public Health Works:	
06	Gas Supply:	
07	HVAC Works (Allied Accessories & Ducting Works):	
08	Firefighting Works (Pipes & Valves):	
	Total	
	Add 05% PRA	
	Grand Total	

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**EXTENSION OF 2ND FLOOR, FINISHING WORKS & EXTERNAL DEVELOPMENT OF CONFUCIUS INSTITUTE
AT UNIVERSITY OF AGRICULTURE, FAISALABAD - (PACKAGE - 01)
(D.N.I.T)**

CIVIL WORKS: (GREY STRUCTURE)

Item #	MRS Ref#	Description of Items.	Unit	Quantity	Rate (PKR)	Rate Quoted by the Contractor	Amount (PKR)
		SCHEDULE ITEMS:					
1	Ch.3/21 (b) (P.30)	<u>EARTH WORK:</u> 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). b) in ordinary soil.	Per Cft	100.00	8.9496		
2	Ch.6/5(i) (P.42)	<u>PLAIN CEMENT CONCRETE (1:4:8) :</u> Providing and laying of Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1:4:8					
		a) Ground Floor	Per Cft	10.00	228.036		
		b) First Floor	Per Cft	10.00	228.036		
	+Ch.6/15 (P.46)	c) Second Floor	Per Cft	1716.00	261.828		
3	Ch. 6/2 (P.41)	<u>DRY RAMMED STONE BALLAST:</u> Providing and laying of dry rammed stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.					
	Ch. 6/2 (P.41)	a) Second Floor	Per Cft	500.00	87.42		

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4	9/46 (ii) (P.68)	<u>WATER PROOFING MEMBRANE ON WALLS AND FLOOR:</u> Providing and applying torch-on plain water proofing bitumenous membrane of specified thickness (made of Roof-Grip/EuroBit) duly lapped/connected by heating with Torch over ps-6 primer i/c preparation/smoothen the surface complete in all respect as approved and directed by the Engineer Incharge. ii) 4 mm thick	Per Sft	4620.00	82.95		
5	Ch.26/37(-ii) (P.213)	<u>POLYTHENE SHEET :</u> Supplying and laying polythene sheet over D.P.C. walls, under floors and on roofs, etc. 500 gauge (.005" thick)	Per Sft	4620.00	7.10		
6	Ch.6/5(i) (P.42)	<u>PCC 1:2:4 UNDER FLOORING:</u> Providing and laying of cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate) :- complete in all respects, Ratio 1:2:4					
		a) Ground Floor	Per Cft	10.00	292.116		
		b) First Floor	Per Cft	10.00	292.116		
	+Ch.6/15 (P.46)	c) Second Floor	Per Cft	1167.00	325.908		
7	Ch.6/6 (a-iii)(P.42)	<u>REINFORCED CEMENT CONCRETE WORK :</u> Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-					

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		Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members, complete in all respects:- Type C (nominal mix 1: 2: 4)	Per Cft	100.00	354.15		
8	Ch.6/6 (a-i) (P.43)	<u>REINFORCED CEMENT CONCRETE WORK</u> : Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-					
		i) Reinforced cement concrete in roof slab, beams, lintels, girders, stairs and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1½: 3)					
		a) Ground Floor	Per Cft	72.00	516.75		
	+6/6 (d)	b) First Floor	Per Cft	10.00	548.45		
	+6/6 (d+d)	c) Second Floor	Per Cft	128.00	580.15		
		(ii) Reinforced cement concrete in retaining/Shear walls laid in situ or precast laid in position, or prestressed members cast in situ (Form work on both sides) , complete in all respects : Type B (nominal mix 1: 1½: 3)					
		a) Ground Floor	Per Cft	198.00	521.40		

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9	Ch.6/9 (c) (P.45)	<u>STEEL REINFORCEMENT:</u> Supply and Fabrication of mild steel reinforcement for cement concrete including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars). Deformed bars (Grade-60)	Per Kg	640.00	263.6765		
10	Ch.7/5(i) (P.55)	<u>BRICK MASONRY :</u> Providing, laying and jointing pacca brick work in buildings using first class new bricks, raking of joints and curing in ratio 1:5 cement, sand mortar as per drawings and specifications, complete in all respects.					
		a) Ground Floor	Per Cft	100.00	279.436		
	+7/6 (P.55)	b) First Floor	Per Cft	100.00	290.788		
	+7/6 (P.55)	c) Second Floor	Per Cft	1000.00	305.044		
11	11/9 (b) (P.78)	<u>INTERNAL WALL PLASTER :</u> Providing and laying of Cement plaster ratio 1:4 upto 20' (6.00 m) height:- ½" (13 mm) thick, complete in all respect.					
		a) Ground Floor	Per Sft	100.00	26.6185		
	11/28 (P.80)	b) First Floor	Per Sft	100.00	30.1245		
	11/28 (P.80)	c) Second Floor	Per Sft	1644.00	33.6305		

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12	11/8 (b)+ 11/32 (ii) (P.78 & 80)	<u>1" THICK GROOVE PLASTER EXTERNAL SIDE:</u> Providing and laying of ½" (13 mm) thick Cement sand plaster (1:3) (cement and sand) , and providing ½" (13 mm) thick grooved cement sand plaster 1:3 over existing plastered and roughened surface including making of 1/2" deep grooves (Horizontally and vertically) upto 20' (6.00 m) height , complete as per drawings and as directed by the Engineer-in-charge.						
		a) Ground Floor	Per Sft	100.00	58.632			
		11/28 (P.80)	b) First Floor	Per Sft	100.00	62.138		
		11/28 (P.80)	c) Second Floor	Per Sft	990.00	65.644		
13	11/9 (c) (P.78)	<u>EXTERNAL WALL PLASTER :</u> Providing and laying of ¾" (20 mm) thick Cement Plaster ratio 1:4 on External walls upto 20' (6.00 m) height, complete in all respect.						
		a) Ground Floor	Per Sft	100.00	35.6555			
		11/28 (P.80)	b) First Floor	Per Sft	100.00	39.1615		
		11/28 (P.80)	c) Second Floor	Per Sft	990.00	42.6675		

Contractor

Executive Engineer

14	12/60 (ii & iii) (P.92)	<p>M.S CHOWKAT: Providing and fixing 2" wide MS Chowkat single/double rebate made of 16 SWG MS sheet pressed/ welded/ supported with M.S. flat 1-1/4"x1/8" i/c 6" long M.S. Flat 1"x1/8" hold fasts (6-Nos) welded/ screwed, punching of lock hole covered with MS Box, coating with anti-rust paint including filling with cement sand mortar (1:8) and embedding hold fast in cement concrete (1:2:4), complete in all respect as approved and directed by Engineer Incharge.</p>					
		a) 10.50 " wide	Per Sft	60.00	573.65		
		b) 5.50 " wide	Per Sft	18.00	391.00		
		TOTAL AMOUNT (SCHEDULE ITEMS) = PKR.					
		G.TOTAL AMOUNT (PKR)					

Contractor

Executive Engineer

**EXTENSION OF 2ND FLOOR, FINISHING WORKS & EXTERNAL DEVELOPMENT OF CONFUCIUS INSTITUTE AT
UNIVERSITY OF AGRICULTURE, FAISALABAD - (PACKAGE - 01)
(D.N.I.T)**

CIVIL WORKS: (FINISHING)

Item #	MRS Ref#	Description of Items.	Unit	Quantity	Rate (PKR)	Rate Quoted by the Contractor	Amount
		SCHEDULE ITEMS:					
1	Ch.4/13 (P.34)	<u>DISMANTLING OF BRICK MASONRY:</u> Dismantling brick work in lime or cement mortar, including disposal of salvage materials upto any lift & lead, complete in all respects as directed by the Engineer-in-charge.	Per Cft	100.00	35.904		
2	Ch.4/19(a) (P.35)	<u>DISMANTLING OF PCC:</u> Dismantling cement concrete plain 1:4:8, including disposal of salvage materials upto any lift & lead, complete in all respects as directed by the Engineer-in-charge.	Per Cft	100.00	46.464		
3	Ch.4/13 (P.34)	<u>DISMANTLING OF R.C.C:</u> Dismantling cement concrete reinforced, separating reinforcement from concrete, cleaning and straightening the same and disposal of salvage materials upto any lift & lead, complete in all respects as directed by the Engineer-in-charge.	Per Cft	236.00	152.064		

Contractor

Executive Engineer

4	Ch.26/43 (P.213)	<p><u>ANTI-TERMITE TREATMENT :</u> Spraying anti termite proofing by using liquid FMC Biflex 2.5%EC Mixing Ratio 1:50=137-Sft or using liquid MIRAGE Ali Akbar /RANGERS Auriga 5% SC Mixing Ability-HEXTAR Ratio 1:110=205-Sft or any other equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect .as approved by the Engineer Incharge.</p>	Per Sft	5000.00	10.00		
5	10/40(a) (P.74)	<p><u>MARBLE STRIP:</u> Providing and fixing marble strip of any shade for dividing the concrete/mosaic flooring into panels a) Size 1½" x 3/8 " (40 x 10 mm)</p>	Per Rft	500.00	15.85		
6	25/64 (P.209)	<p><u>STAIN LESS STEEL STAIR RAILING:</u> Providing and fixing 2'-9" high stair railing comprising of non magnetic (304) Stain less steel 2" dia pipe railing of 18 SWG welded with vertical posts of 2" dia stainless steel round/ Squar pipe @ 2-ft c/c fixed on alternate steps with 3" long steel screws and brass rawal plugs , 3-Nos diagonal stainless steel pipes of 1/2" dia passes through goties fixed on vertical post, i/c stainles steel welding, fixing & polishing complete in all respects as approved and directed by the Engineer Incharge.</p>	Per Rft	416.00	1,784.30		

Contractor

Executive Engineer

7	25/65 (P.209)	<u>WALL MOUNTED S.S RAILING PIPE:</u> Providing and fixing 2" dia 18 SWG non-magnetic Stain less steel pipe (304) wall mounted hand rail comprising fixed with 2" long steel bracket with screws i/c the cost of hardware etc. & stainless steel welding & polishing complete in all respects as approved and directed by the Engineer Incharge.	Per Rft	426.00	484.80		
8	25/35(P.204)	<u>M.S RAILING:</u> Providing and fixing terrace railing of 2" (50 mm) i/d conduit pipe 16 SWG, welded with 5/8"x5/8" (16x16 mm) square bar 2.75 ft. (838 mm) high fixed at 5" (125 mm) centre to centre, in reinforced cement concrete slab with suitable arrangement, complete in all respects, as per design and drawing.	Per Rft	107.50	1,349.65		
9	12/07 (a) (P.83)	<u>DEODAR WOOD DOORS AND WINDOWS:</u> Providing and fixing 1st class solid wood wrought joinery in panelled or panelled and glazed doors and windows of specified thickness with 1" thick solid wood panels with step and 1-1/2"x2-1/2" beadings all around the panels i/c the cost of Tower bolt and handles complete in all respect (Excluding the cost of sliding bolt, lock and chowkats (frame), etc.) as approved and directed by the Engineer Incharge. complete in all respect as per drawings.					
		b) 1½" thick (40 mm)	Per Sft	150.00	1,784.65		

Contractor

Executive Engineer

10	12/50 (P.90)	<p><u>SOLID FLUSH DOORS:</u> Providing and fixing 1½" (40 mm) thick solid flush door shutter (Approved Factory Manufactured) with commercial ply (5 mm thick) on both sides double pressed and deodar wood lipping 2"x3/8" (50 mm x 10 mm) around shutter including chromium plated fitting, iron hinges with aluminium kick plate 22 SWG on both sides & finger plate complete in all respect and as directed by the Engineer.</p>	Per Sft	3881.00	453.75		
11	25/52 (P.207)	<p><u>ALUMINIUM WINDOWS AND VENTILATORS:</u> Providing and fitting all types of glazed aluminium windows of anodised bronze colour partly fixed and partly sliding/ fixed using deluxe sections of approved manufacturer having frame size of 100 x 20 mm (4"x¾") and leaf frame sections of 50 x 20 mm (2"x¾"), all of 1.6mm thickness including 5 mm thick imported tinted glass with rubber gasket using approved standard latches, hardware etc., as approved by the Engineer in-charge.</p>	Per Sft	5712.00	614.30		
12	25/53(P.207)	<p><u>ALUMINIUM FLY SCREEN :</u>Providing and fixing Aluminum Fly screen comprising of Fiber/ Aluminum wire guaze (Malasian) fixed in aluminum frame of approved manufacturer brownze Colour/ powder coated of size 1-1/2" x 1/2" and 1.6mm thick with rubber gasket i/c cost of Hardwares as approved and directed by the engineer incharge. complete in all respect.</p>	Per Sft	2856.00	690.25		

Contractor

Executive Engineer

13	25/59 (P.208)	<u>M.S GRILL :</u> Providing and fixing M.S. grill fabricated with MS Square polished Vertical/horizontal Bars of specified size @ 4" c/c ' passed through punched holes in MS Patti of 1-1/4"x1/8" i/c the cost of 1-1/4"x1/8" MS patti for Frame of windows and painting 3 coat complete in all respect as approved and directed by the Engineer Incharge. 3/8" Squar Bars	Per Sft	5156.00	656.70		
14	25/51 (P.207)	<u>ALUMINIUM DOORS:</u> Providing and fixing all types of partly fixed and partly openable 2 mm thick glazed anodised bronze colour aluminium doors, using deluxe section of M/s Al-Cop or Pakistan Cables, having chowkat frame of size 40 x 100 mm (1½" x 4") and leaf frame of 60x40mm (2½"x1½") wide sections including the cost of ¼" (5 mm) thick imported tinted glass with aluminium triangular gola and rubber gasket to support the glass and leaf edging, using approved standard fittings, locks, 3" (75 mm) wide long handles etc., and hardware any required as approved by the engineer in-charge. All of 2mm thick sections.	Per Sft	1377.00	761.80		
15	12/67 (P.93)	Providing and fixing autotomatic hydraulic operated door closer imported heavy duty complete in all respect as approved and directed by the Engineer Incharge.	Each	30.00	2,650.80		
16	12/68 (P.93)	Providing and fixing heavy duty 3mm thick SS Plate, die-cast metal autotomatic hydraulic operated door stopper (Concealed floor hinge) embeded in floor i/c the cost of Top pivot hinge, hardware, cutting of floor and making it good complete in all respect as approved and directed by the Engineer Incharge.	Each	20.00	5,050.80		

Contractor

Executive Engineer

17	12/57 (P.91)	<u>WOODEN ARCHITRAVE AROUND DOOR FRAMES:</u> Providing and fixing ornamental wooden architrave 3" x (1½" tapered to ¼") all along the door frame complete in all respect. Deodar wood architrave.	Per Sft	8962.00	77.75		
18	13/5 (c) (P.91)	<u>ENAMEL PAINT:</u> Preparing surface and painting of doors and windows any type (including edges):- new surface three coats.	Per Sft	17924.00	23.033		
19	13/7 (P.96)	<u>POLISHING ON WOOD WORK:</u> Prepare surface and applying French or spirit polishing, two coat of approved make on wood work at any height in any floor . a) on new work	Per Sft	17773.00	44.648		
20	13/31 (P.98)+ 11/22 (P.79)	<u>PLASTIC EMULSION PAINT:</u> Preparing surface and painting with emulsion paint:- new surface three coats, including the cost of wall putty complete on walls and ceiling at any height in any floor .	Per Sft	103081.00	28.314		
21	11/22 (P.79)+ 11/23 (P.79)	<u>CEILING DISTEMPER:</u> Priming coat of chalk under distemper and three coats Distempering:- complete in all respects at any floor .	Per Sft	60000.00	13.956		
22	13/32A(P.98)	<u>WEATHER SHIELD PAINT:</u> Prepare surface and painting two coats with weather shield paint (ICI) make of approved shade on plaster surface on external surface of building including preparation of surface, application of primer complete in all respect: at any height in any floor.	Per Sft	45144.00	47.598		

Contractor

Executive Engineer

23	11/39 (P.81)	<p><u>GRAFFIATO WEATHER COATING:</u> Preparing surface and applying Graffiato Weather Coating (Co-polymer emulsion) of approved colour & shade with weather resistant pigment, highly water repellent with Metallic Spatula having top class finish by smoothing with a plastic Spatula, on a base coat (Primer) over well cleaned plastered surface complete in all respect as approved and directed by the Engineer Incharge.</p>	Per Sft	3000.00	45.75		
24	10/42 (a-ii) (P.75)	<p><u>PORCELAIN TILE FLOORING & SKIRTING:</u> Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design, Color and Shade with adhesive / bond over 3/4" thick (1:3) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge. Full body Glazed tiles. (size 600mmx 600 mm)</p>	Per Sft	56200.00	304.75		
25	10/43 (a+b) (P.75)	<p><u>PORCELAIN TILE ON WALLS:</u> Providing and laying superb quality Porcelain Matte finish tiles of Master brand, skirting/ dado of specified size, Color and Shade with adhesive/ bond over 1/2" thick (1:2) cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge. Matte Finish tiles. (Size 600mm x600 mm or as per drawings).</p>	Per Sft	6840.00	304.75		

Contractor

Executive Engineer

26	10/50 (i) (P.76)	<u>PREPOLISHED GRANITE ON STAIRS:</u> Providing and laying Prepolished Granite of specified thickness and shade of full width of approved quality laid with adhesive bond over 3/4" thick (1:2) cement sand mortar bed, complete in all respect as approved and directed by the Engineer Incharge.					
		a) 3/4" thick on Treads and Landings.	Per Sft	2064.00	843.85		
		b) 1/2" thick on riser and Skirting.	Per Sft	974.00	644.80		
27	10/47 (i & ii) (P.76)	<u>PREPOLISHED MARBLE SLAB:</u> Providing and laying 3/4" thick full width Prepolished Marble slab for Vanities / Shelves / Treads / Window Sills, having Uniform texture (Spotless) with adhesive bond over 3/4" thick (1:2) cement sand mortar i/c the cost of matching sealer complete in all respects as approved and directed by the Engineer Incharge.					
		a) China Verona	Per Sft	705.00	371.40		
		b) Ziarat White	Per Sft	104.00	1,215.60		
28	10/48 (P.76)	Extra for Bevelling charges of marble edge in approved design complete in all respects i/c the cost of Carbo random disc as approved and directed by the Engineer Incharge.	Per Rft	2000.00	21.90		
29	10/49 (P.76)	Extra cost for making hole in Marble slab for fixtures, Sink, burners, basin Vanities i/c cost of bevelling of internal edge as approved and directed by the Engineer Incharge.	Each	34.00	627.60		

Contractor

Executive Engineer

30	9/50 (P.69)	Providing and laying high density single profile spanish glazed tapered barrel type of 4"-5-/2" dia Terra Cotta Khaprail Tile dipped or sealed with a water repellent, with Terra Cotta base plate (10"x16"), resistant to salt attack laid with laps and duly inter locked on slopping roof over 1/2" thick (1:3) cement sand mortar i/c cost of all material and labour complete in all respect as approved and directed by the Engineer Incharge. at any height .	Per Sft	2742.00	100.15		
		STEEL STRUCTURE.					
31	25/09 + 25/11 (P.202)	Supply, fabrication and erection in position Small iron work, such as gusset plates, knees, bends, stirrups, straps, rings, etc. including cutting, drilling, riveting, handling, assembling and fixing. complete in all respect as per drawings and as directed by the Engineer Incharge.	Per Kg	15000.00	357.4355		
32	25/10 + 25/11 (P.202)	Supply, fabrication and erection in position of heavy steel work, with angle, tees, flat iron round iron and sheet iron for making trusses, girders, X-Bracing steel, steel frame built-up (ASTM A36), including cutting, drilling, revitting, handling, assembling and fixing, complete in all respect as per drawings and as directed by the Engineer Incharge.	Per Kg	80000.00	284.8175		
33	13/5 (P.95)	Surface finish complete in all respects. With 2x coats red oxide and 2x coats enamel paint.	Per Sft	25000.00	34.699		

Contractor

Executive Engineer

34	9/13 (P.64)	Providing & Fixing corrugated galvanized iron sheets with G.I. bolts, nuts, limpet and bitumen washers, wind ties, complete in all respects without valleys and ridges:- for inclined plane roof, complete in all respect at any height. b) 22 BWG	Per Sft	1400.00	320.030		
35	11/5 (P.77)	<u>CEMENT, SAND AND SHINGLE GROUTING:</u> Providing and laying 2" (50 mm) thick cement Grouting (cement, sand and shingle) under Base Plate complete in all respects.	Per Sft	50.00	89.4935		
36	26/34 (P.212)	Fixing `J' bolt in concrete, including levelling and tying. Complete in all respects.	Each	170.00	284.8175		
TOTAL AMOUNT (SCHEDULE ITEMS) = PKR.							
NON-SCHEDULE ITEMS:							
37	NSI	<u>CARPET TILE:</u> Providing and fixing Carpet tiles (max. size of 4.0 sq. ft.) of approved design / color / shade / texture on floor and dado fixed using approved adhesive complete in all respects as approved by the Engineer-in- Charge.	Per Sft	4250.00	387.00		

Contractor

Executive Engineer

38	NSI	<p><u>GRANITE SLAB ON MAIN ENTRANCE STEPS AND DECK AREA:</u> Providing and laying chemically polished Granite (Galaxy Black or equivalent approved by the Engineer In-Charge) (minimum thickness ¾") of approved colour / shade / texture and having size upto 12 sft. to specified surfaces of floors, Ramp and treads of steps with rounded nosing, laid in approved design / pattern, including 1" thick cement sand 1:3 mortar base, grouted with cement sularry with matching colour pigmented (imported pigment), complete in all respects. (Base Price of tile PKR. 1350/ Sft)</p>	Per Sft	3255.00	1,821.00		
39	NSI	<p><u>12 MM THICK TEMPERED GLASS DOORS :</u> Providing and installing of 12mm thick tempered tinted glass (approved quality) double leaf swing doors in any size including all necessary accessories i.e. pivot machine, S.S handle, D lock etc. complete in all respect as per drawings and as per instruction of Engineer-in- Charge .</p>	Per Sft	144.00	1,350.00		
40	NSI	<p><u>DOOR LOCK :</u> Providing and fixing, approved quality imported ICON door lock , complete in all respect as approved by the Engineer-in-charge. (as per approved sample)</p>	Each	130.00	4,167.00		
41	NSI	<p><u>UPVC DOORS :</u> Providing and fixing uPVC Door, including uPVC door frame, with hinges, latch lock, tower bolt, handle & hardware manufactured by "ZEALCON" or approved equivalent complete in all respects, and as per sample approved by the Engineer</p>	Per Sft	100.00	1,735.00		

Contractor

Executive Engineer

42	NSI	<u>M.S LOUVERS DOORS:</u> Supply and install M.S Powder coated louvers door (16 Swg) Folding/openable complete , with all hardware required, locks, door frame, iron mongeries according to, drawings, specifications and as approved by the Engineer. at any floor.	Per Sft	478.00	1,355.00		
43	NSI	<u>HEAT REFLECTIVE FILM FOR WINDOWS GLASS :</u> Providing and fixing heat reflective film for doors and windows glass of approved design as directed by the engineer incharge complete in all respect. (For payment Net area of glass will be measured)	Per Sft	5550.00	50.00		
44	NSI	<u>WOODEN STAGE UP TO 2'-6" HEIGHT:</u> Providing and installing in position wooden Stage made of Kail Wood 1st Class, frame of 1-1/2"x1-1/2" wood batons, jointed at 1 ft. x 1 ft. c/c both ways horizontal & Vertically at top, including Seasonal wooden vertically columns (9" x9") support fixed to floor as per detail drawings and walls with 4" long steel rawal bolts, topped with 1-1/2" thick (3/4" +3/4") imported MDF double sheets on top and sides, making steps on sides, strictly according to drawings, including termite proofing spray and all hardware's, (nails, screws, glues etc.), wastage, lifting, cutting, etc., complete in all respect as per drawing and as directed by the Engineer-in-charge. For payment, Plan (top) area will be measured.	Per Sft	1275.00	1,775.00		

Contractor

Executive Engineer

45	NSI	<p><u>WOODEN STEPS IN THEATER- 6" TO 4'-6" HEIGHT:</u> Providing and installing in position wooden Steps made of Kail Wood 1st Class, frame of 1-1/2"x1-1/2" wood batons, jointed at 1 ft. x 1 ft. c/c both ways horizontal & Vertically at top, including Seasonal wooden as columns (9" x9") support fixed to floor as per detail drawings and walls with 4" long steel rawal bolts, topped with 1-1/2" thick (3/4" +3/4") imported MDF double sheets on top and sides, making steps on sides, strictly according to drawings, including termite proofing spray and all hardware's, (nails, screws, glues etc.), wastage, lifting, cutting, etc., complete in all respect as per drawing and as directed by the Engineer-in-charge. For payment, Plan (top) area will be measured.</p>	Per Sft	1650.00	1,775.00		
46	NSI	<p><u>R.C.C BALUSTER RAILING:</u> Providing and fixing Pre-cast reinforced cement concrete baluster railing upto 2'-6" (762 mm) height, including top rail/ slab as per drawing , complete in all respects.</p>	Rft	862.00	1,070.00		
47	NSI	<p><u>FIBER CLOCK:</u> Providing and fixing Fiber Clock 11 feet dia with logo complete in all respects as per drawing and as approved by the Engineer In charge at any height on Facade.</p>	Job	1.00	150,000.00		

Contractor

Executive Engineer

48	NSI	M.S RAFTER: Supply, fabrication and erection in position M.S Sheet Powder coated Box Rafter Size 4" x 4" of 16 SWG complete in all respects as per drawing an as approved by the Engineer In charge at any height on Facade.	Kg	750.00	385.00		
49	NSI	ACRYLIC BACKLIT LETTERS: Supply, fabrication and erection in position Acrylic Backlit letters complete in all respects as per drawing an as approved by the Engineer In charge at any height .	Sft	75.00	986.00		
		STEEL STRUCTURE.					
50	NSI	Supply and installation of Cement Board EPS (Expanded Polystyrene) Smart Panels (2440 mm x 610 mm) including accessories i.e. steel pins & dry-bond in external walls of total thickness not less than 100mm. including making door and windows openings including 50mm wide and 100mm wide fiber mesh to the joints and use a spatula to press the mesh tightly. complete in all respects as per drawings, detail specification and as approved by the Engineer in Charge.	Per Sft	5796.00	695.00		
51	NSI	Providing and fixing 2"-thick imported glass wool insulation blankets with aluminum foil vapour barrier on one side in between the roof purlins and corrugated GI sheets, insulated tightly with roof sheets using galvanised steel wires 2mm thick fixed at approx. 12" c/c, all longitudinal joints of the glass wool blanket to be sealed with aluminium adhesive tap.	Per Sft.	6900.00	93.00		

Contractor

Executive Engineer

52	NSI	Supply, Fixing, & erecting in position 0.5mm thick prepainted PPGI (ASTM A792 M) roof sheeting, including G.I "J" bolt with limpet & rubber washer, complete in all respect as per drawings and as directed by the Engineer-in-charge. at any height.	Per Kg	4500.00	375.00		
		TOTAL AMOUNT (NON-SCHEDULE ITEMS) = PKR.					
		G.TOTAL AMOUNT (PKR)					

Contractor

Executive Engineer

EXTENSION OF 2ND FLOOR, FINISHING WORKS & EXTERNAL DEVELOPMENT OF CONFUCIUS INSTITUTE AT UNIVERSITY OF AGRICULTURE, FAISALABAD - (PACKAGE - 01)
(D.N.I.T)

CIVIL WORKS:

Item #	MRS Ref#	Description of Items.	Unit	Quantity	Rate (PKR)	Rate Quoted by the Contractor	Amount (PKR)
		GENERATOR PAD AND TRANSFORMER TOWER.					
		SCHEDULE ITEMS:					
EX-01	Ch.3/21 (b) (P.30)	<u>EARTH WORK:</u> 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). b) in ordinary soil.	Per Cft	693.79	8.9496		
EX-02	Ch.6/5(i) (P.42)	<u>PLAIN CEMENT CONCRETE (1:4:8) :</u> Providing and laying of Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1:4:8	Per Cft	103.63	228.036		

Contractor

Executive Engineer

EX-03	Ch.6/6 (a-iii) (P.42)	<u>REINFORCED CEMENT CONCRETE WORK:</u> Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-					
		i) Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members, complete in all respects:- Type C (nominal mix 1: 2: 4)	Per Cft	406.00	354.15		
EX-04	Ch.6/6 (a-2) (P.42)	<u>REINFORCED CEMENT CONCRETE WORK:</u> Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):- (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:- (2) Type B (nominal mix 1: 1½: 3)					
	a)	in Columns	Per Cft	31.00	597.55		
	b)	in Beam and Slab	Per Cft	54.00	516.75		

Contractor

Executive Engineer

EX-05	Ch.6/9 (c) (P.45)	STEEL REINFORCEMENT: Supply and Fabrication of mild steel reinforcement for cement concrete including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars).					
a)		a) Deformed bars (Grade-60)	Per Kg	2200.00	263.6765		
		TOTAL AMOUNT (SCHEDULE ITEMS) = PKR.					
		G.TOTAL AMOUNT (PKR)					

Contractor

Executive Engineer

**EXTENSION OF 2ND FLOOR, FINISHING WORKS & EXTERNAL DEVELOPMENT OF CONFUCIUS INSTITUTE AT UNIVERSITY
OF AGRICULTURE, FAISALABAD - (PACKAGE - 01)
(D.N.I.T)**

ELECTRICAL WORKS :

Sr. #	MRS Ref#	Description of work	Unit	Quantity	Rate	Rate Quoted by the Contractor	Amount
		<u>SCHEDULE ITEMS:- 1st Biannual 2022, Faisalabad.</u>					
1	Ch.24/3(P.168)	Supply and erection of PVC pipe for wiring recessed in walls, including clamps inspection boxes, pull boxes, bends, tees, repairing surface, etc., complete with all specials:-					
	(i)	20 mm i/d	P. Rft	4000.00	71.40		
	(ii)	25 mm i/d	P. Rft	4000.00	82.65		
	(iii)	32 mm i/d	P. Rft	500.00	106.05		
	(iv)	40 mm i/d	P. Rft	500.00	128.20		
2	Ch.24/6(P.168)	Supply and erection of PVC pipe for wiring recessed in walls, including clamps inspection boxes, pull boxes, bends, tees, repairing surface, etc., complete with all specials:-					
	(i)	50 mm i/d	P. Rft	250.00	162.10		
	(ii)	100 mm i/d	P. Rft	1250.00	252.70		

Contractor

Executive Engineer

3	Ch.24/10(c)(P.169)	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):- 250/440 volts, PVC insulated:					
	(i)	1.5 mm sq (3/0.029")	P. Rft	16404.00	37.35		
	(ii)	2.5 mm sq (7/0.029")	P. Rft	13123.00	52.50		
	(iii)	4 mm sq (7/0.036")	P. Rft	8202.00	63.55		
	(iv)	6 mm sq (7/0.044")	P. Rft	1640.00	82.15		
4	Ch.24/13(C)(P.171)	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, 660/1100 volt non armoured cable:-					
	(i)	10 mm (7/0.052")	P. Mtr	350.00	1,709.95		
	(ii)	16 mm (7/0.064")	P. Mtr	350.00	2,154.75		
	(iii)	25 mm (19/0.052")	P. Mtr	50.00	3,264.70		
	(iv)	35 mm sq (19/0.064")	P. Mtr	50.00	5,488.55		
5	Ch.24/12(P.170)	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 660/1100 volts grade cable, in prelaid pipe/G.I. wire /M.S conduits/ trenches, etc. (rate for cable only):-					
	(xiv)	300 mm sq (61/0.099")	P.Rft	3000.00	2,825.00		
	(ix)	95 mm sq (37/0.072")	P.Rft	650.00	905.00		

Contractor

Executive Engineer

Public Address System							
6	Ch.24/152 (P.200)	Supply, Installation & Commissioning of recessed/surface mounted Speakers of specified capacity housed in metallic enclosure with builtin 70v/100v transformer , aluminum grill, SPL (Sound Pressure Level) (1W / 1M)= 92dB max 99dB, frequency response 130-13 Khz, EN-54 compliant, Including cost of all accessories and matierlas, complete in all respect made of Ecler Europe/Bosch/ Norden / Honey Well or equivalent as approved and directed by the Engineer Incharge.					
	b(i)	10-15 watt	P. No	50.00	28,281.00		
7	Ch.24/157 (P.201)	Supply, Installation of Microphone of specified quality as per requirement made of : Norden, Bosch, Honeywell. Complete in all respect. as approved and directed by Engineer Incharge.					
	(iii)	Handheld Microphone with Stand	P. No	2.00	31,035.00		
8	Ch.24/154(P. 200)	Supply, Installation and commissioning of Power / Mixer Amplifier of specified wattage, Including cost of all necessary accessories / materials , complete in all respects made of Ecler Europe/Bosch/ Norden / Honey Well or Equivalent or as approved and directed by Engineer Incharge.					
	i)	480 Watt.	P.No	1.00	319,581.00		
Switch Plates and Cable tray							
9	Ch.24/14(P.1 72)	Supply and erection of M.S. sheet box of 16 SWG, 10 cm (4") deep, with 4.75 mm thick (3/16") Bakelite sheet top, for recessed wiring, including making holes for regulators, switches, plugs, etc.					

Contractor

Executive Engineer

	i)	10 x 10 cm (4"x4")	P. No	550.00	231.35		
	ii)	17.5 x 10 cm (7"x4")	P. No	100.00	319.50		
10	Ch.24/103 (P.189)	P/F PVC double layer Switch kit Faceplate with specified switch holes i/c the cost of switches / sockets / dimmer made of Hi-Life / Bush / Schenider, screws complete as approved and directed by the Engineer Incharge					
	(a)	One way Gange Switch Small					
	(i)	01 Gange	P. No	30.00	343.80		
	(ii)	02 Gange	P. No	80.00	557.40		
	(iii)	03 Gange	P. No	40.00	661.80		
	(iv)	Three pin Light Plug 10/13 Amp	P. No	192.00	503.40		
	(v)	Three pin Power Plug 15-32 Amp	P. No	50.00	673.80		
	(vi)	Telephone / TV/Datacable socket	P. No	50.00	449.40		
	(vii)	Fan Dimmer	P. No	15.00	449.40		
	(viii)	bell push	P. No	5.00	449.40		

Contractor

Executive Engineer

11	Ch.24/98 (P.187)	Providing and fixing 4" deep cable tray with straight flange fabricated with perforated G.I. Sheet of specified guage,size and depth duly wall supported/ceiling hung, supported on painted brackets of MS angle iron of 1-1/2"x1-1/2"x3/16" and MS patti of 1-1/2"x3/16" size @ 5 ft C/C, hangers i/c the cost of hardwares as approved and directed by the Engineer Incharge.					
	i)	9"x4"	P.Rft	1500.00	478.80		
	Fitting Fixtures & Fans						
12	Ch.24/28 (P.174)	Supply and erection of call bell 220/250 volts, fixed on teak wood board 17.5x10 cm (7"x4").	P. No	3.00	428.00		
13	Ch.24/29 (P.174)	Supply and erection of bell push or bed switch, with 5 metres twin flexible wire 23/0.0076".	P. No	3.00	512.55		
14	Ch.24/30 (P.174)	Supply and erection of ceiling rose, bakelite.	P. No	3.00	512.55		
15	Ch.24/47 (P.176)	Supply and erection of roof suspension hook, 16 mm (5/8") dia rod with 75x40x3 mm (3" x 1½" x 1/8") M.S. steel channel, with clamp, bolts and nuts, etc., including fixing with cement concrete 1:3:6	P. No	10.00	2,623.40		
16	Ch.24/102 (P.189)	Providing and fixing Copper winded Exhaust fan with louver and shutter made of Pak / Younas / G.F.C. i/c the cost of necessary cable and hardware for connection from ceiling rose complete as approved and directed by Engineer Incharge.					
	(i)	10" dia Plastic body	P. No	1.00	1,961.85		
	(ii)	12" dia Plastic body	P. No	1.00	2,201.85		

Contractor

Executive Engineer

Data Networking System							
17	Ch.24/106 (P.190)	Supply, Installation and commissioning of wiring with 4-pair data Cable,23 AWG support 1 Giga @ 250 Mhz upto 100 meter UL/EN listed cable conforming IEEE 802.3 or equivalent, in pre-laid conduit / cable tray from including all accessories, Make: Schneider / i-connect UK/3M Corning USA, complete in all respect as approved and directed by Engineer Incharge.					
	a)	CAT-6 (Unshielded Twisted Pair)	P.Mtr	1600.00	91.05		
18	Ch.24/138 (P.197)	Supply, installation and connections of 42U Racks 800 x1000 MM with Fans and:02 nos PDU-IMPORTED. Make Schneider as specified as approved and directed by Engineer's Incharge .	P. No	1.00	141,608.10		
19	Ch.24/109 (P.191)	Supply, Installation and commissioning of Cat-6, UTP Machine Made Patch Cord of Specified Length, Support 10 Giga, UL listed cable or equivalent, with anti-snap boots, Gold Over Nickel Plated, Made of Schneider / i-Connect UK /Panduit USA as Approved and Directed by Engineer Incharge.					
	(i)	1 meter Patch Cord	P. No	45.00	674.50		
	(ii)	3 Meter Patch Cord	P. No	15.00	824.40		
20	Ch.24/111 (P.191)	Supply, Installation and Connection of Specified Ports Layer-2 PoE (Power Over Ethernet) data Network Switch portsx100 Mbs/s PoE+,2x1000 Mbs, UP LINK,2X1000 Mbs SFP UPLINK made of Cisco USA/NOVAS Europe/Juniper USA or Equivalent as approved and directed by the Engineer Incharge.					

Contractor

Executive Engineer

	(iv)	24 port,365 Watt PoE power	P. No	2.00	55,000.00		
21	Ch.24/114 (P.192)	Supply, installation & connections of UTP 24 Port sliding Patch Panel loaded with one piece tool less I/O's VDIG 112241U-/VDIB 17726- U12 having ushaped smart bridle UL Listed having two side buttons for locking mechanism made of Schneider/i-Connect USA or equivalent i/c the cost of tags as approved & directed by the Engineer Incharge.					
	(i)	CAT-6	P. No	2.00	11,440.20		
	Transformer						
22	Ch.24/105 (P.190)	Supply, insatllation, commissioning and testing of oil cooled type, Step down Power Transformer of specified rating,11/0.415 kV, i/c the cost of lifting hooks, thermometers, LT & HT bushing 5-steps, tap changer, imported double float buchholz relay, 2 earthing terminals, roller wheels, connecting terminals for cables M.S box on transformer in order to cover complete L.T side, all necessary materials required for connections on H.T & L.T side, rated voltage 11000/415/240 V impedance 6.25% or as specified by WAPDA/IEC system earth: Delta / Star, neutral solidly earthed, i/c Wapda testing charges,complete in all respects made of PEL, Siemens, as approved and directed by the Engineer Incharge					
	viii	400 KVA	P.No	1.00	1,532,451.55		
	CCTV						

Contractor

Executive Engineer

23	Ch.24/124 (P.193)	Supply, installation & connecting IP based Camera of specified resolution, 1/3" Progressive scan, fixed lens 2.8 mm AF, Max resolution 2592 x 1920 mm, Codec H-265, Camera with 25 fps, day night (ICR), ONVIF, IP-66, Max IR distance 30 meter, WDR Smart Analytics, i/c the cost of mounting bracket, mounting accessories/ materials. Make: - Honey Well / Bosch / Norden or Equivalent, as approved as directed by the Engineer Incharge.					
	a(i)	Fixed Bullet type (2 Mega Pixel)	P.No	5.00	58,722.40		
	a(ii)	Fixed Dome type (2 Mega Pixel)	P.No	38.00	66,522.40		
24	Ch.24/118 (P.192)	Supply & Installation of NVR (Network Video Recorder) for Real Time View of specified Channels, video and Audio channels,Supported protocols: ONVIF,RTSP etc,Internal HDDs mount:2/4/8 as per user requirement,Monitor outputs,(HDMI,4K Ultra HD),VGA (Video Graphic array), complete in all respect. made of AXIS Europe/NOVAS Europe/Avigilon by Motrola USA or equivalent as approved and directed by the Engineer Incharge.					
	(iii)	32-Channel	P.No	1.00	89,322.40		
25	Ch.24/111 (P.191)	Supply, Installation and Connection of Specified Ports Layer-2 PoE (Power Over Ethernet) data Network Switch portsx100 Mbs/s PoE+,2x1000 Mbps, UP LINK,2X1000 Mbs SFP UPLINK made of Cisco USA/NOVAS Europe/Juniper USA or Equivalent as approved and directed by the Engineer Incharge.					
	(i)	24 port,365 Watt PoE power	P.No	2.00	55,000.00		

Contractor

Executive Engineer

	(ii)	12 port,250 Watt PoE power	P.No	1.00	21,000.00		
		SCHEDULE ITEMS-TOTAL AMOUNT (PKR.)					
		-					
		<u>NON-SCHEDULE ITEMS:-</u>					
26	NSI	Providing, Installing, testing & commissioning of following size of PVC insulated Single Core Cu. Conductor for earth in already installed PVC conduit. complete in all respect.					
	(i)	1 mm ² solid Green/Yellow	P. Mtr	1500.00	66.44		
	(ii)	1.5 mm ² solid Green/Yellow	P. Mtr	800.00	78.14		
	(iii)	2.5 mm ² solid Green/Yellow	P. Mtr	1500.00	115.80		
	(iv)	4 mm ² solid Green/Yellow	P. Mtr	500.00	144.00		
	(iv)	6 mm ² solid Green/Yellow	P. Mtr	500.00	185.00		
	(iv)	10 mm ² solid Green/Yellow	P. Mtr	500.00	315.00		
	(v)	16 mm ² solid Green/Yellow	P. Mtr	100.00	366.00		
	(vi)	25 mm ² solid Green/Yellow	P. Mtr	20.00	748.95		
	(vii)	70 mm ² solid Green/Yellow	P. Mtr	100.00	2,015.00		
	HT Cable						

Contractor

Executive Engineer

27	NS	Supply at site, installation, testing and 15 KV Aluminum Conductor XLPE/PVC/SWA/PVC cable having voltage grade of 15/8.7 KV, manufactured by any of the manufacturers mentioned in Annex-A, to be laid in pre installed trenches/PVC conduit/cable tray including the cost of all necessary material required for complete laying of cables complete in all respects.					
	(i)	3 core 35mm sq. XLPE/PVC/SWA/PVC Al.Cond 8.7/15 KV cable	P. Mtr	150.00	5,118.00		
Switch Plates and Cable tray							
28	NS	Supply, installation, testing & commissioning of following 15/20A, industrial power socket including, face plate, 16 SWG Sheet Steel powder coated back boxes with earth terminal, recessed in wall, with all accessories, and Technical Specifications "Wiring Accessories" complete in all respects. as per specifications					
	i)	Five pin IPS 16 Amp	P. No	2.00	16,092.00		
	i)	Three pin IPS 32 Amp	P. No	2.00	22,644.00		
29	NS	Supply and Installation of Floor Box, complete in all respects	P. No	4.00	9,500.00		
30	NS	One way Gange Switch Large					
	(i)	04 Gange	P. No	10.00	715.80		
	(ii)	05 Gange	P. No	10.00	869.40		
	(iii)	06 Gange	P. No	10.00	1,259.40		
Fitting Fixtures & Fans							

Contractor

Executive Engineer

31	NS	Supplying, installation testing and commissioning of 100 Watt Flood Light, Phillips or approved equivalent, complete in all respect	P.No	15.00	13,500.00		
32	N.S	Supply and installation of Panel light, input 220-240 V, size 2' x 2', Out put power 35-45 W, Power factor > 0.9, operating frequency 50 Hz, compatible for sin/square wave servs, Phillips or approved equivalent, complete in all respect. (as per approved sample)	P. No	389.00	6,930.00		
33	N.S	Supply and installation of Panel light, input 220-240 V, size 1' x 1', Out put power 24-30 W, Power factor > 0.9, operating frequency 50 Hz, compatible for sin/square wave servs, Phillips or approved equivalent, complete in all respect. (as per approved sample)	P.No	6.00	4,950.00		
34	N.S	Supply and erection of walls bracket fan 18" size M/s. Pak/ Asia/ Millat or equivalent as approved by the engineer incharge complete in all respect.	P. No	106.00	6,570.00		
35	N.S	Supply and erection of Ceiling Revolving fan 2'x2' size M/s. Pak/ Asia/ Millat or equivalent as approved by the engineer incharge complete in all respect.	P.No	192.00	8,000.00		
36	N.S	Supply and erection of ceiling fans deluxe model, capacitor type i/c extension of rods, paint, dimmer, (Pak/ Millat/ Asia/ Climax/ approved equivalent) complete in all respect.					
	(i)	56" size	P. No	8.00	7,314.00		

Contractor

Executive Engineer

37	N.S	Supply and installation, testing, commissioning of TMS-015 complete fittings, suitable for sin/ square wave, 220-v, input 50-Hz frequency, p.f > 0.9, with one year warranty of Phillips made or approved equivalent, complete in all respect. (as per approved sample)					
	(i)	1x36-Watts Led rod	P. No	6.00	2,500.00		
	(ii)	1x20-Watts Led rod	P. No	6.00	1,850.00		
38	N.S	Supply and installation, testing, commissioning of LED 14 watt Wall Bracket Light, 220-v, input 50-Hz frequency, p.f > 0.9, with one year warranty of Phillips made or approved equivalent, complete in all respect. (as per approved sample)	P. No	25.00	1,100.00		
39	N.S	Supply and installation, testing, commissioning of SMART LED 18 watt Down Light, 220-v, input 50-Hz frequency, p.f > 0.9, with one year warranty of Phillips made or approved equivalent, complete in all respect. (as per approved sample)	P. No	10.00	1,200.00		
40	N.S	Supply and installation, testing, commissioning of SMART LED 12 watt Down Light, 220-v, input 50-Hz frequency, p.f > 0.9, with one year warranty of Phillips made or approved equivalent, complete in all respect. (as per approved sample)	P.No	70.00	1,000.00		
41	N.S	Supply and installation, testing, commissioning of Exit light complete in all respects	P.No	18.00	8,500.00		
42	N.S	Supply and installation of Projector with projector screen complete in all respects	P.No	15.00	35,000.00		
LT Panel							

Contractor

Executive Engineer

43	N.S	<p>Supply, installation, testing and commissioning of Main distribution board with ATS panel having the following equipments as under.</p> <p>INCOMING:</p> <p>Adjustable MCCB 630-800-Amp 02 Nos ABB Germany/(Schneider France/ equivalent)</p> <p>Digital volt meter size 96mmx96mm, (Entes turkey / equivalent) 01 No</p> <p>SPD's with fuse</p> <p>Phase indication lights 22mm dia 03 Nos</p> <p>Complete Set of Electrical/Mechanical Interlocking</p> <p>OUTGOING:</p> <p>Adjustable MCCB T.P 800-Amp 2- Nos (ABB Germany/Schneider France/equivalent)</p> <p>Fitting in D.B box of M.s 16-SWG wall mounted including the cost of loading, unloading and carriage charges from manufacturer to site of work complete in all respect.</p>	P. No	1.00	2,163,917.00		
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Contractor

Executive Engineer

44	N.S	<p>Supply, installation, testing and commissioning of Main distribution board having the following equipments as under.</p> <p>INCOMING: Adjustable MCCB 630-800-Amp 01 Nos ABB Germany/(Schneider France/ equivalent) Digital volt meter size 96mmx96mm, (Entes turkey / equivalent) 01 No SPD's with fuse Phase indication lights 22mm dia 03 Nos</p> <p>OUTGOING: MCCB T.P 32/40/50/63-Amp 22- Nos (ABB Germany/Schneider France/equivalent) Adjustable MCCB 4.P 630-Amp 1- Nos (ABB Germany/Schneider France/equivalent) MCCB 4.P 100-Amp 1- Nos (ABB Germany/Schneider France/equivalent) Fitting in D.B box of M.s 16-SWG wall mounted including the cost of loading, unloading and carriage charges from manufacturer to site of work complete in all respect.</p>	P. No	1.00	1,642,542.00		
45	N.S	<p>Providing, Installing and commissioning of the following 3 Phase automatic power factor improvement panel of 200KVAR to be installed adjacent to LT Panel comprising of all necessary sensing and switching relays, contactors, banks of capacitors suitable for operation of 440V, 50Hz Control Voltage 230V, 50Hz Switching in and out the capacitors in 4 steps. 4 stage reactive power control relay with digital switch Manual/Auto/OFF Indication lamps, push button HRC fuses of suitable rating, contactors for capacitors, control fuses, auxillary contactors for capacitors all necessary materials complete in all respects and as per general specifications.</p>	P. No	1.00	522,000.00		

Contractor

Executive Engineer

46	N.S	<p>Supply, installation, testing and commissioning of distribution board having the following equipments as under.</p> <p>INCOMING: MCCB 32-Amp 01 Nos ABB Germany/(Schneider France/ equivalent) Digital volt meter, size 96mmx96mm, (Entes turkey / equivalent) 01 No Phase indication lights 22mm dia 03 Nos</p> <p>OUTGOING: MCB S.P 10-Amp 35- Nos (ABB Germany/Schneider France/equivalent) Fitting in D.B box of M.s 16-SWG wall mounted including the cost of loading, unloading and carriage charges from manufacturer to site of work complete in all respect.</p>	P. No	4.00	64,000.00		
47		<p>Supply, installation, testing and commissioning of distribution board having the following equipments as under.</p> <p>INCOMING: MCCB 32-Amp 01 Nos ABB Germany/(Schneider France/ equivalent) Digital volt meter, size 96mmx96mm, (Entes turkey / equivalent) 01 No Phase indication lights 22mm dia 03 Nos</p> <p>OUTGOING: MCB S.P 10-Amp 15- Nos (ABB Germany/Schneider France/equivalent) Fitting in D.B box of M.s 16-SWG wall mounted including the cost of loading, unloading and carriage charges from manufacturer to site of work complete in all respect.</p>	P. No	2.00	55,000.00		

Contractor

Executive Engineer

48	N.S	<p>Supply, installation, testing and commissioning of distribution board having the following equipments as under.</p> <p>INCOMING: MCCB 50-Amp 01 Nos ABB Germany/(Schneider France/equivalent) Digital volt meter, size 96mmx96mm, (Entes turkey / equivalent) 01 No Phase indication lights 22mm dia 03 Nos</p> <p>OUTGOING: MCB S.P 10-Amp 2 Nos (ABB Germany/ Schneider France/equivalent) MCB S.P 16/20/25-Amp 30 Nos (ABB Germany/ Schneider France/equivalent) Fitting in D.B box of M.s 16-SWG wall mounted including the cost of loading, unloading and carriage charges from manufacturer to site of work complete in all respect.</p>	P. No	4.00	85,000.00		
49	N.S	<p>Supply, installation, testing and commissioning of distribution board having the following equipments as under.</p> <p>INCOMING: MCCB 50-Amp 01 Nos ABB Germany/(Schneider France/equivalent) Digital volt meter, size 96mmx96mm, (Entes turkey / equivalent) 01 No Phase indication lights 22mm dia 03 Nos</p> <p>OUTGOING: MCB S.P 10-Amp 2 Nos (ABB Germany/ Schneider France/equivalent) MCB S.P 16/20/25-Amp 12 Nos (ABB Germany/ Schneider France/equivalent) Fitting in D.B box of M.s 16-SWG wall mounted including the cost of loading, unloading and carriage charges from manufacturer to site of work complete in all respect.</p>	P. No	2.00	55,000.00		

Contractor

Executive Engineer

50	N.S	<p>Supply, installation, testing and commissioning of distribution board having the following equipments as under.</p> <p>INCOMING: MCCB 40-Amp 01 Nos ABB Germany/(Schneider France/equivalent) Digital volt meter, size 96mmx96mm, (Entes turkey / equivalent) 01 No Phase indication lights 22mm dia 03 Nos</p> <p>OUTGOING: MCB S.P 16/20-Amp 15 Nos (ABB Germany/Schneider France/equivalent) Fitting in D.B box of M.s 16-SWG wall mounted including the cost of loading, unloading and carriage charges from manufacturer to site of work complete in all respect.</p>	P. No	2.00	50,000.00		
51	N.S	<p>Supply, installation, testing and commissioning of distribution board having the following equipments as under.</p> <p>INCOMING: MCB 32-Amp 01 Nos ABB Germany/(Schneider France/equivalent) Digital volt meter, size 96mmx96mm, (Entes turkey / equivalent) 01 No Phase indication lights 22mm dia 03 Nos</p> <p>OUTGOING: MCB S.P 10/16-Amp 10 Nos (ABB Germany/Schneider France/equivalent) Fitting in D.B box of M.s 16-SWG wall mounted including the cost of loading, unloading and carriage charges from manufacturer to site of work complete in all respect.</p>	P. No	2.00	35,000.00		

Contractor

Executive Engineer

52	N.S	Supply, installation, testing and commissioning of distribution board having the following equipments as under.INCOMING:MCB 32-Amp 01 Nos ABB Germany/(Schneider France/equivalent)Digital volt meter, size 96mmx96mm, (Entes turkey / equivalent) 01 NoPhase indication lights 22mm dia 03 NosOUTGOING:MCB S.P 10/16-Amp 30 Nos (ABB Germany/ Schneider France/equivalent)Fitting in D.B box of M.s 16-SWG wall mounted including the cost of loading, unloading and carriage charges from manufacturer to site of work complete in all respect.	P. No	4.00	50,000.00		
Fire Alarm System							
53	N.S	Installation and Wiring of Conventional Alarm Sounders	P.No	3.00	6,689.00		
54	N.S	Installation and Wiring of Conventional Smoke Detectors	P.No	128.00	3,350.00		
55	N.S	Installation and Wiring of Conventional Heat Detectors	P.No	2.00	3,000.00		
56	N.S	Installation and Wiring of Conventional Fire Alarm Control Panel 4 zone	P.No	1.00	49,420.00		
57	N.S	Installation and Wiring of Conventional Manual Call Stations	P.No	4.00	5,560.00		
58	N.S	Commission and Testing of complete Fire Detection system.	P.No	1.00	50,000.00		
Telephone							
59	N.S	Supply and install recessed type telephone distribution box suitable for 50 pair including appropriate size 16 SWG sheet steel box with hinged, latched and lockable cover.	P.No	1.00	9,322.00		

Contractor

Executive Engineer

60	N.S	Supply, Installation, Testing & Comissing of HYBRID - PABX, Telephone Exchange CLI Built in expandable to 24 user , with battery backup for 8 Hours, call loggong software, digital Operator console, Complete in all respects as per manufacturar.	P.No	1.00	152,016.00		
61	N.S	Supply, Installation, Testing & Comissing of Telephone Set, complete in all respect.	Job	2.00	6,500.00		
62	N.S	0.6 mm dia, 10 pair tinned copper conductor PVC/PVC telephone cables in already installed conduits/pipes.	Rft	150.00	361.00		
Solar System & Earthing							
63	N.S	50KW GRID TIED SOLUTION PROPOSAL	Job	1.00	6,500,000.00		
64	N.S	PV Panels 370 x 540W Mono Jinko/JA/Longi					
65	N.S	Inverter 5 x 10 kW Inverter Solis/Huawei					
66	N.S	Mounting Structure 185x 14 Gauge galvanized structure					
67	N.S	Electrical Items Cables, AC/DC Breakers, SPD, LV box Schneider/equivalent Wapda					
68	N.S	Accessories Ducts, Pipes, trays, thimbles, etc					
69	N.S	Batteries 200 AH (Narada, Ritar or Equivalent imported good quality brand as per approved IEC standards). Warranty 2 Years					
70	N.S	Installation & Commissioning					
71	N.S	Net Metering Documentation & Application processing fees, Earthing & Boring, Net-metering online and physical filling and follow-ups with DISCO.					
72	N.S	Lightning Protection					
73	N.S	Earthing					
Earthing							

Contractor

Executive Engineer

74	NSI	Supply, Installation, Testing and commissioning of following earthing system including all accessories complete in all respects and as mentioned in Specification					
	i)	Drilling of earth bore 80 to 90 ft. deep or up to permanent water table, back filling, ramming, complete in all respect including cost of copper rod dia 3/4" length 3000mm or as shown in the drawing fixing of 70mm copper wire in 1" GI conduit up to ecp complete in all respect as required. Earthing bores shall be made at 2000mm away from foundation and distance between earth bore shall not be less than 3000mm	P.No	8.00	120,000.00		
	ii)	Man Hole for Earthing	P.No	5.00	26,500.00		
	iii)	25 sqmm, 1 core CU stranded conductor bare (for Earthing).	P.Rft	100.00	330.00		
	iv)	95 sqmm, 1 core CU stranded conductor bare (for Earthing).	P.Rft	100.00	1,050.00		
	v)	305 mm long, 50 mm wide and 6mm thick copper busbar as ECP (Earth Connecting Point) complete with insulators, washers, nuts, bolts mounting installation and operational accessories as per site requirements.	P.No	8.00	6,500.00		
	External Development						
75	N.S	Installation, Commissioning and Testing of Light Fixtures including all required accessories complete in all respects and as mentioned in Specification and as per lighting layout and as per direction of engineer incharge)					

Contractor

Executive Engineer

	i)	Pole Light 60W outdoor (as per lighting layout)	P.No	40.00	10,830.00		
	ii)	Flood Light 100W outdoor (as per lighting layout)	P.No	10.00	12,585.00		
76	N.S	Street light pole G.I Pipe of good quality jamal or approve equalent with Cable Termination box made of 16 SWG sheet steel powder coated with insulators, bus bars and clamps fixed at side with pcc 1:2:4 18x 18x30 inch from ground level i/c excavation with two coats of white epoxy paint complete in all respect. (Bottom 150mmX60mmX3.5mm) (Single Arm)	P.No	32.00	50,257.00		
77	N.S	Street light pole G.I Pipe of good quality jamal or approve equalent with Cable Termination box made of 16 SWG sheet steel powder coated with insulators, bus bars and clamps fixed at side with pcc 1:2:4 18x 18x30 inch from ground level i/c excavation with two coats of white epoxy paint complete in all respect. (Bottom 150mmX60mmX3.5mm) (Double Arm)	P.No	4.00	62,057.00		
		NON-SCHEDULE ITEMS-TOTAL AMOUNT (PKR.)					
		G.TOTAL AMOUNT (PKR)					

Contractor

Executive Engineer

EXTENSION OF 2ND FLOOR, FINISHING WORKS & EXTERNAL DEVELOPMENT OF CONFUCIUS INSTITUTE AT UNIVERSITY OF AGRICULTURE, FAISALABAD - (PACKAGE - 01)
(D.N.I.T)

Rates shall be for all finished works include the removal of surplus debris, unused material & by products.
Rates shall include cutting and making good of the surface of walls, roof, floor, etc. where necessary.

PUBLIC HEALTH WORKS:

Sr. #	MRS Ref#	Description of Items.	Unit	Quantity	Rate (PKR)	Rate Quoted by the Contractor	Amount (PKR)
		SCHEDULE ITEMS:					
1	Ch.19/31 (P.130)	Providing and fixing gun metal peet/gate valve (screwed):-					
a)	i)	30 mm (1¼") dia	Each	10.00	4,434.60		
b)	ii)	40 mm(1½") dia	Each	5.00	5,670.60		
c)	iii)	50 mm(2") dia	Each	7.00	8,064.60		
d)	iv)	65 mm(2 1/2") dia	Each	5.00	12,396.00		
2	Ch.19/51 (P.133)	Providing and hoisting vertical/horizontal type storage tank of required capacity made of rotationally molded from (HDPE), double plypolyethelene of approved manufacturer i/c cost of making connection for inlet/outlet pipe, float valve i/c all cost of specials & labour complete in all respect as approved and directed by the Engineer Incharge.	Per Gallon	250.00	93.10		

Contractor

Executive Engineer

3	Ch.19/51 (P.133)	Providing and hoisting vertical/horizontal type storage tank of required capacity made of rotationally molded from (HDPE), double pypolyethelene of approved manufacturer i/c cost of making connection for inlet/outlet pipe, float valve i/c all cost of specials & labour complete in all respect as approved and directed by the Engineer Incharge.	Per Gallon	250.00	93.10		
4	Ch.19/51 (P.133)	Providing and hoisting vertical/horizontal type storage tank of required capacity made of rotationally molded from (HDPE), double pypolyethelene of approved manufacturer i/c cost of making connection for inlet/outlet pipe, float valve i/c all cost of specials & labour complete in all respect as approved and directed by the Engineer Incharge.	Per Gallon	250.00	93.10		
5	Ch.19/51 (P.133)	Providing and hoisting vertical/horizontal type storage tank of required capacity made of rotationally molded from (HDPE), double pypolyethelene of approved manufacturer i/c cost of making connection for inlet/outlet pipe, float valve i/c all cost of specials & labour complete in all respect as approved and directed by the Engineer Incharge.	Per Gallon	250.00	93.10		
6	Ch.19/55i (P.134)	Providing /fixing Electric water heater (Geysar) comprising of tank of 14 SWG, GI sheet and external cover of 22 SWG MS sheet, insulated with 4" thick high density glasswool, imported thermostat i/c electricrod, safety valve (Ambassador/Canon) i/c cost of accessories & making connection complete in all respect as approved and directed by Engineer Incharge.					
a)		15 Gal Capacity	Each	5.00	16,014.00		
7	Ch.21/5 i (P.138)	Providing and laying R.C.C. pipe sewers, moulded with cement concrete 1:1½:3 conforming to ASTM Specification C-76-79, Class IV, Wall B, including carriage of pipes from factory to site of work, lowering in trenches to correct alignment and grade, jointing with rubber ring, cutting pipes where necessary, testing, etc. complete:-					
a)		310 mm (12") i/d	Rft	1500.00	726.65		

Contractor

Executive Engineer

SCHEDULE ITEMS-TOTAL AMOUNT (PKR).							
NON SCHEDULE ITEMS:							
8	NSI	Providing and fixing European type water closet of approved color with intergal trap in vitreous Imported/Local Porta make (HD180N) or equivalent with coupled flushing cistern or equivalent as approved by the Engineer complete in all respects to their entire satisfaction, including all accessories, waste and trap, double seat and cover, tee stop cock with wall cups, PVC flexible pipe connection, all joints to services and drains, plugging and screwing as necessary to the structure and making good the same complete in all respects.	Each	36.00	32,460.00		
9	NSI	Providing and fixing Asian water closet Porta make (HD70), export quality, with low down Porta (plastic) flushing cistern 3 gallons capacity i/c syhonic fitting, 1/2" dia C.P. brass stop cock (Master/Sonex Make), C.P. connection, 1-1/2" G.I. flush pipe with extra bends, length, fittings, clamps, P-Trap etc. complete	Each	32.00	12,590.40		
10	NSI	Providing and fixing Under Counter lavatory basin of approved color in vitreous china best quality Porta make (HD1) as approved by the Engineer complete in all respects to their entire satisfaction including all accessories and fittings Master, Sonex make, such as 2 Nos., 13mm dia CP brass tee stop cock with wall cups, PVC flexible inlet pipe connection, CP brass strainer, waste water jointing assembly, painted MS bracket set with nut bolts etc., best quality PVC bottle trap, all joints to services and drains, plugging and screwing as necessary to the structure complete in all respects.	Each	20.00	12,409.20		

Contractor

Executive Engineer

11	NSI	Providing and fixing C.P. mixing valves for wash basin best quality Master (3099A), Sonex make or equivalent as approved by the Engineer complete in all respects to their entire satisfaction including all accessories and fittings complete in all respects.	Each	20.00	7,671.89		
12	NSI	Providing and fixing toilet paper holder best quality Master (187-4) make or equivalent as approved by the Engineer complete in all respects to their entire satisfaction including all accessories and fittings.	Each	36.00	2,190.00		
13	NSI	Providing and fixing of Muslim Shower best quality Master (2015) make or equivalent for toilets, mounting hook, connectors,nuts ,bolts, fittings and accessories complete in all respect as per drawings and specifications.	Each	68.00	3,270.00		
14	NSI	Providing and fixing Double Bib Cock best quality Master make (199) make or equivalent as approved by the Engineer complete in all respects to their entire satisfaction including all accessories and fittings complete in all respects.	Each	68.00	3,390.00		
15	NSI	Providing and fixing Bib Cock best quality Master make (108) or equivalent as approved by the Engineer complete in all respects to their entire satisfaction including all accessories and fittings complete in all respects.	Each	5.00	2,466.60		
16	NSI	Providing and fixing soap dish set best quality Master make (187-5) or equivalent as approved by the Engineer complete in all respects to their entire satisfaction including all accessories and fittings complete.	Each	6.00	1,704.00		

Contractor

Executive Engineer

17	NSI	Providing and fixing of approved Double Bowl Stainless Steel Sinks of specified size best quality with bottle trap, painted MS bracketset with nuts bolts, waste water jointing assembly, making requisite number of holes in walls, floors and plinth for pipe connections and making good with approved material complete in all respect as per drawings and Specifications.	Each	2.00	13,530.00		
18	NSI	Providing and fixing C.P. Sink Mixer for wash basin best quality Master make (422) or equivalent as approved by the Engineer complete in all respects to their entire satisfaction including all accessories and fittings complete in all respects.	Each	2.00	13,080.00		
19	NSI	Providing and fixing of approved Two Taps Water Dispenser with 19 litter water filled bottles, and Electric connection with existing points etc. Complete in all respects. (Homage, PEL or Equivalent)	Each	2.00	29,880.00		
20	NSI	Providing and fixing Automatic/Manual along remote control air freshener approved by the Engineer complete in all respects to their entire satisfaction including all accessories and fittings complete.	Each	4.00	5,160.00		
21	NSI	Providing and fixing Hand Drier (Sensored) imported including all necessary fittings complete in all respects as specified and as directed by Engineer incharge at site. (Siemens or Equivalent)	Each	4.00	11,159.00		
22	NSI	Providing and fixing soap dispenser best quality Master make (05000) or equivalent as approved by the Engineer complete in all respects to their entire satisfaction including all accessories and fittings complete.	Each	16.00	6,024.00		

Contractor

Executive Engineer

23	NSI	Providing and Fixing Stainless Steel Grip bar with rubber Grab for English W.C including all fittings with complete installation.	Each	4.00	4,500.00		
24	NSI	Providing and fixing of Electric Water Cooler as approved by the Engineer including all accessories and fittings Complete in all respects.					
a)		35 Gal Capacity	Each	4.00	44,820.00		
25	NSI	Providing and fixing Supply and installation of 3mm thick Glass mirror including fixing/holding clips, screws etc and all fittings for complete installation.	Sqft	175.00	225.00		
26	NSI	Supply, installation and testing of RO-Plant with capacity =250 GPD, plant consist of one streams lines each line with 100% of the total flow, intake pipe for the RO-Plant suction Shall be in low level for the main feeder water tank. All data related to RO shall be as per the Drawings, Specifications and Standards. Price should include fixation and Proper operation, RO-Plant shall produce the water with the Quality required for the project. Item includes also supply and install the purified water automatic chlorination system, rejected water tank (holding water tank), all the control panels with its indication lamps and switches keys and all the outside cables, pipes and all accessories required for proper installation and operation	Each	2.00	175,450.00		

Contractor

Executive Engineer

27	NSI	Supply, Installation, Testing & Commissioning of Submersible water transfer pumps for filling of Over Head water tank of KSB, WILO, HMA or GRUNDFOS make with electric motor SIEMENS or equivalent make, including all accessories, control pannels, DOL Starter, Float Switch, pressure gauges, dry running protection, alarm switch of approved manufacturer of each of following Capacity and Pumping head as per specification.					
a)		Capacity =150 gpm Head = 60 feet	Each	2.00	540,500.00		
28	NSI	Supply, Installation, Testing and Commissioning of water pumps for Irrigation of KSB, WILO, HMA or GRUNDFOS make with electric motor SIEMENS or equivalent make, including all accessories, DOL Starter, NRV, control pannels of approved manufacturer for following Capacity and Pumping head as per specification					
a)		Capacity =50 gpm Head = 125 feet (Tentative)	Each	1.00	220,000.00		

Contractor

Executive Engineer

29	NSI	Providing, laying, fixing, testing and disinfecting, polypropylene pipelines for cold and hot water supply as per DIN 8077/8078 PN-20 for pipe and DIN 16962 PN-25 for fittings or equivalent BS specification Dadex, Master or Firat make as approved by the Engineer Incharge complete in all respects to their entire satisfaction, including specials such as tee, cross, reducer, bend, union, elbow, plug, socket etc., supported on walls or suspended from slab or run in chases (chased in walls shall be made by using electric cutter) including supports, cutting and making good the same as necessary to the structure complete in all respects. (all hot and cold water pipes shall run under the ceiling of lower floors, galvanized hangers and rawl bolts shall be Spit or Hilti make shall be used.)					
a)		25 mm dia	Rft	910.00	250.39		
b)		32 mm dia	Rft	525.00	400.87		
c)		40 mm dia	Rft	10.00	504.08		
d)		50 mm dia	Rft	50.00	756.07		
e)		63 mm dia	Rft	10.00	1,139.65		
f)		75 mm dia	Rft	600.00	1,558.97		
30	NSI	Providing, fixing and testing Check valve for water with threaded end, complete as per specifications and approved by the Engineer Incharge.					
a)		3 inches	Each	2.00	24,270.00		
31	NSI	Supply, installation and testing of gate valves on PPRC Pipes and jointing, etc. of approved make of the following diameters.					
a)		3 inches	Each	5.00	21,200.00		

Contractor

Executive Engineer

32	NSI	Providing, fixing and testing Air relief valves, of approved manufactures, including jointing arrangement of pipes on both ends of valves; nuts, bolts etc. complete in all respects.					
a)		3/4 inches	Each	4.00	4,850.00		
33	NSI	Providing, fixing and testing Float valves, of approved manufactures, including jointing arrangement of pipes on both ends of valves; nuts, bolts etc. complete in all respects.					
a)		3 inches	Each	3.00	46,200.00		
34	NSI	Providing, laying, fixing and testing uPVC soil, waste, rain and vent as per BSS 4514 & 5255 or equivalent BS specifications including uPVC fittings with solvent cement jointing or rubber ring joints Dadex Nikasi or Tetraplast make as approved by the Engineer complete in all respects, including, clamps, bends, tees, Y-tees, cowls, reducers etc., embedded in floors and walls, clamped to walls, suspended from slab, painted MS horizontal and vertical pipe hangers of approved design making requisite no. of holes and making good the same complete in all respects. (all soil, waste and vent pipes shall run under the ceiling of lower floors, vent cowl at top floor galvanized hangers and rawl bolts shall be Spit or Hilti make shall be used.)					
a)		2 inches	Rft	150.00	316.80		
b)		3 inches	Rft	380.00	452.88		
c)		4 inches	Rft	580.00	734.40		
d)		6 inches	Rft	250.00	1,209.24		
e)		8 inches	Rft	100.00	1,330.20		

Contractor

Executive Engineer

35	NSI	Providing & fixing and testing floor drain (P/Bottle/Multifloor trap) uPVC including extension grating and stainless steel cover grating best quality local make Dadex or Tetraplast make as approved by the Engineer, complete in all respects to their entire satisfaction of the Engineer.	Each	50.00	2,730.00		
36	NSI	Providing & fixing and testing uPVC floor Cleanout of the following diameter, including 2 No. 45o elbows, transition pipe, socket plug, breaking concrete or masonry work & then making it good, etc. complete in all respects.	Each	1.00	1,685.00		
37	NSI	Providing, laying, fixing and testing vent cowl vertical/horizontal in wall uPVC best quality Dadex or Master make as approved Engineer complete in all respects to their entire satisfaction.	Each	10.00	435.00		
38	NSI	Construction of Gully Trap Chamber (24"x24" clear) construction of 4-1/2" thick brick masonry in 1:4 c/s mortar , 3" thick 1:4:8 PCC at bottom, 1:2:4 PCC in benching, (18"x18") CI cover with frame (7 kg), 1/2" thick 1:3 c/s plaster on inner face, etc. complete in all respects.	Each	9.00	15,500.00		
39	NSI	Supply, installation of 3/4" diameter Galvanised MS ladder rungs for sump pits, Manholes, Under Ground Water & Septic Tank; each rung of 18" width, 6" projected outside the wall and 6" embeded in RCC on both ends; including all necessary works for complete installation.	Each	140.00	880.00		

Contractor

Executive Engineer

40	NSI	Construction and laying R.C.C man hole up to 6'-0" depth , including excavation back filling , PCC in bed , 10" inch thick base slab, 6" inch thick RCC walls , top slab with manhole cover and steel reinforcement , complete in all respects as per drawings and specification with bitumen coating.	Each	32.00	34,175.00		
41	NSI	Providing and laying Valve Chamber of 2' x 2' inner size up to 4' depth as shown on the drawing consisting of 4" thick PCC 1:4:8 bed, first class burnt brick masonry walls set in 1:4 cement sand mortar , 1/2" thick cement plaster in 1:3 cement sand mortar to all inside and outsides surface etc., including making required number of main and branch connections and providing and fixing 24" dia meter C.I manhole cover and frame heavy duty (Faisal/Tipu) as approved by the Engineer Incharge i/c R.C.C 5" thick 1:2:4 top slab and including steel reinforcement 1/2" dia 6" c/c both ways, i/c Bitumen Coating, excavation and back filling complete in all respect.	Each	2.00	14,500.00		
42	NSI	Supply and installation of 100 mm (4") dia. G.I. U-turned vent pipes with insect proof mesh at their end open to air, puddle flanges, complete arrangement complete in all respects. (Septic Tank)	Each	3.00	3,560.00		
43	NSI	Providing and laying R.C.C Grease trap chamber size 450mm x 300mm including uPVC P-trap, CI grating, CI cover, complete in all respects and all to approval of the Engineer.	Each	1.00	15,625.00		
NON-SCHEDULE ITEMS- TOTAL AMOUNT (PKR.)							
G. TOTAL AMOUNT (PKR.)							

Contractor

Executive Engineer

EXTENSION OF 2ND FLOOR, FINISHING WORKS & EXTERNAL DEVELOPMENT OF CONFUCIUS INSTITUTE AT UNIVERSITY OF AGRICULTURE, FAISALABAD - (PACKAGE - 01)
(D.N.I.T)

GAS SUPPLY:

Item #	MRS Ref#	Description of Items.	Unit	Quantity	Rate (PKR)	Rate Quoted by the Contractor	Amount (PKR)
	Chapter						
1	Ch.19/49 (P.133)	Providing, laying, testing and commissioning underground Yellow Polyethelene flexible gas pipe Tubing of SDR-11 in the trenches & Walls, made of (Dadex/Popular/Beta/BBJ) for Gas supply i/c the cost of solvent and specials complete as approved and directed by the Engineer Incharge.					
a)	(ii)	1" Dia	Rft	50.00	96.15		
b)	(iii)	1-1/4" Dia	Rft	515.00	290.20		
2	Ch.19/45 (P.133)	Providing and fixing brass stop cock.					
a)	(b)	20 mm (¾") dia	Each	2.00	492.10		
SCHEDULE ITEMS- TOTAL AMOUNT (PKR.)							

Contractor

Executive Engineer

EXTENSION OF 2ND FLOOR, FINISHING WORKS & EXTERNAL DEVELOPMENT OF CONFUCIUS INSTITUTE AT UNIVERSITY OF AGRICULTURE, FAISALABAD - (PACKAGE - 01)
(D.IN.I.T)

HVAC SYSTEM:

Item #	MRS Ref#	Description of Items.	Unit	Quantity	Rate (PKR)	Rate Quoted by the Contractor	Amount (PKR)
		SCHEDULE ITEMS:					
1	Ch.27/1 (P.216)	Supplying, fabrication and installation of duct using prime quality hot dipped G.I sheet meta 1 (Z-275) of specified thickness including the cost of hangers, tees, bends, reducers, elbows, turning vanes and splitter etc coupled with jointing sealant, mounting supports @8ft/c and smoke testing charges complete in all respect as approved and directed by the Engineer Incharge					
a)	(ii)	26-SWG	Per Sft	50.00	169.35		
b)	(iii)	24-SWG	Per Sft	10050.00	210.95		
c)	(iv)	22-SWG	Per Sft	50.00	255.00		
2	Ch.27/3 (P.216)	Supplying, fabrication and installation of welded type grease exhaust duct of specified diameter, using prime quality MS sheet of 14 SWG duly welded i/c the cost of hangers, tees, bends, reducers, elbows, cleanout access panel, mounting supports @ 6ft c/c complete in all respects as approved and directed by the Engineer Incharge.	Per Sft	400.00	544.80		

Contractor

Executive Engineer

3	Ch.27/5 (iv) (P.216)	Supply, wrapping of 3"thick foil-faced Rock wool thermal Insulation of 65kg/m3 density with built in GI wire mesh as per specifications and drawings conforming to BS5422:2009 complete in all respect as approved and directed by the Engineer Incharge.	Per Sft	400.00	190.45		
4	Ch.27/6 b (i) (P.217)	Providing and wrapping 1" foil-faced fiber glass blanket insulation having 16 kg/m3 density with factory applied vapour barrier/Aluminium foil i/c the cost of 8 oz canvas cloth wrapping around with 2" wide self adhesive Aluminium tape and PVC mechanical fasteners. All longitudinal and circumferential joints shall be sealed complete in all respects as approved and directed by Engineer Incharge.	Per Sft	10100.00	59.35		
5	Ch.27/7 (P.217)	Providing and fixing 1" thick bonded fiber glass Blanket sound liner (Acoustic Liner) having density of 24 kg/m3 with NRC (Noise Reduction Coefficient of 0.6) in ducts, fire retardant type with 100% surface applied with adhesive as well as mechanical fasteners (Gripnails) complete in all respect as approved and directed by Engineer Incharge,	Per Sft	850.00	114.60		
6	Ch.27/9 a(i) (P.218)	Providing and installation of Supply & Return/Exhaust Air grilles made of specified material Electrostatic oven Cured Powder Coated/Anodized 1 mm thick having horizontal and vertical adjustable deflecting bars, grilles with minimum of 75% free area complete in all respects as approved and directed by the Engineer Incharge .	Per Sft	140.00	3,165.00		

Contractor

Executive Engineer

7	Ch.27/11 (ii) (P.219)	Providing and installing opposed blade Volume Dampers of Prime Quality G.I sheet of specified thickness 18 Gauge, (The quadrant volume dampers shall be multi-leaf type, with a maximum blade width of 8", heavy duty quadrant operators of brass withstand off mountings on thermally insulated ducts to provide clearance between the duct surface and operator, equal to the thickness of the insulation, capable of being locked at desired position conveniently, provided with a baked enamel finish complete in all respects as approved and directed by the Engineer Incharge.	Per Sft	45.00	2,602.50		
8	Ch.27/13 a(ii)(P.219)	Supply & Installation of duct flexible connector of specified material Robust Polyester with PVC Coating and 6" width as per drawings with all accessories and fittings complete in all respect as approved and directed by Engineer Incharge.	Per Rft	110.00	473.15		
9	Ch.27/19 (ii) (P.222)	Supply & Installation of washable aluminium metal mesh filter consists primarily of layers of aluminium slit and expanded into mesh of differing densities duly fixed in frame of specified thickness 2" for Fans fabricated with in. 12 mesh layers at fresh air intake on outside of Fans as approved and directed by Engineer Incharge.	Per Sft	18.00	1,257.00		
10	Ch.27/20 (P.222)	Supply & Installation of Powder coated/extruded anodized rectangular/Square aluminium louver duly fixed in frame of specified thickness for intake/Exhaust air with fine finishing as approved and directed by Engineer Incharge.	Per Sft	40.00	1,348.50		
SCHEDULE ITEMS-TOTAL AMOUNT (PKR.)							
<u>HVAC SYSTEM-NON SCHEDULE ITEMS</u>							

Contractor

Executive Engineer

11		Supply, fabrication and installation of D-Class UPVC piping & fittings along with 1/4" thick polyethylene insulation (Jumbolon) covered with PVC taping for condensate drain piping, including hangers, anchor bolts, rubber vibration mounts etc.					
a)	NSI	1"	RFT	1670.00	190.00		
b)	NSI	1 1/4"	RFT	425.00	250.00		
c)	NSI	1 1/2"	RFT	275.00	325.00		
12	NSI	Supply, Installation, Testing and Commissioning of Wall Mounted Commercial Kitchen Exhaust Hood with of approved make and a quality, all to the satisfaction & approval of the Engineer Incharge. Size 12' x 3'	Each	1.00	125,000.00		
13	NSI	Supply, Installation, Testing and Commissioning of Wall Mounted Commercial Kitchen Exhaust Hood with of approved make and a quality, all to the satisfaction & approval of the Engineer Incharge. Size 4' x 3'	Each	1.00	35,000.00		
14		Supply, Installation, Testing and Commissioning of following Exhaust & Supply fans of approved make and a quality, all to the satisfaction & approval of the Engineer Incharge.					
i)		Wall Mounted Propeller Fan					
a)	NSI	EF -1	Each	16.00	14,500.00		
b)	NSI	EF -2	Each	2.00	22,250.00		
ii)		Inline Centrifugal Fan					
a)	NSI	SAF-1	Each	1.00	74,450.00		
b)	NSI	SAF-2	Each	1.00	95,850.00		

Contractor

Executive Engineer

c)	NSI	SAF-3	Each	1.00	115,000.00		
iii)		Kitchen Exhaust Fan					
a)	NSI	KEF -3	Each	1.00	168,000.00		
15		Supply, Installation, Testing & commissioning of MCC Panels at the locations as specified in drawing, including loading/ unloading & placing at designated places.					
a)	NSI	MCC-1	Each	1.00	250,000.00		
b)	NSI	MCC-2	Each	1.00	300,000.00		
c)	NSI	MCC-3	Each	1.00	210,000.00		
16		Supply & Installation of Electrical Power & Control Works including all Electrical Cables from MCC Panels to all equipment complete in all respects.	Lot	1.00	755,500.00		
17		Shop drawings and As-built drawings.	Job	1.00	25,000.00		
18		Operation & Maintenance of HVAC System for 1 year after installation, including required spare parts	Job	1.00	600,000.00		
19		Related civil works including (wall/slab cutting, patching, plastering etc.) and construction of equipment foundation.	Job	1.00	50,000.00		
		NON-SCHEDULE ITEMS- TOTAL AMOUNT (PKR).					
		G. TOTAL AMOUNT (PKR.)					

Contractor

Executive Engineer

EXTENSION OF 2ND FLOOR, FINISHING WORKS & EXTERNAL DEVELOPMENT OF CONFUCIUS INSTITUTE AT UNIVERSITY OF AGRICULTURE, FAISALABAD - (PACKAGE - 01)
(D.N.I.T)

FIRE FIGHTING WORKS:

Sr. #	MRS Ref#	Description of Items.	Unit	Quantity	Rate (PKR)	Rate Quoted by the Contractor	Amount (PKR)
		NON SCHEDULE ITEMS:					
1	NSI	Supply, installation, testing & commissioning of MS Seamless ASTM - A53 Grade B Schedule 40 pipe including all fittings (Tee, Sockets, Reducer, Bend) special fitting, Equipment Connecting Point, complete in all respects including sleeves coating, wrapping and painting as shown on drawings & specifications, including hanger, Supports, loading/unloading and delivery at site.					
a)		40 mm Diameter (1.5")	Rft	120.00	697.00		
b)		100 mm Diameter (4")	Rft	350.00	2,292.00		
c)		150 mm Diameter (6")	Rft	1225.00	3,606.00		
2	NSI	Supply, installation, testing & commissioning of valves & equipment imported/ equivalent make as approved by the Engineer complete in all respects to their entire satisfaction including all accessories (flanges, bolts, gaskets, thread compounds, blind flanges at battery limit etc.) and jointing material complete in all respects and as per Specifications and Drawings. Also includes all labelling and sinage of all fire fighting system.					
a)		NRV (6")	Each	2.00	82,951.00		

Contractor

Executive Engineer

b)		Strainer (6")	Each	2.00	84,350.00		
c)		OS & Y Valve 100 mm Diameter (4")	Each	1.00	83,882.00		
d)		OS & Y Valve 150 mm Diameter (6")	Each	3.00	113,025.00		
e)		Gate Valve 40 mm Diameter (1.5")	Each	6.00	20,400.00		
f)		Pressure Reducer Valve (1.5")	Each	6.00	35,423.00		
g)		Automatic Air Vent (1.5")	Each	2.00	4,850.00		
		NON-SCHEDULE ITEMS- TOTAL AMOUNT (PKR.)					

Contractor

Executive Engineer