

(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:- _____

0Stereo LB No, 386 (revised)

Agreement No.-

Contractor

In-charge Tender Cell, UAF

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 | Establishment of Sub-Campus of University of Agriculture Faisalabad at Depalpur-Okara (HEC Funded)
(Construction of Visiting Scientist Hostel & Multiple Purpose Hall) |
| 2 | Estimated cost | PKR: 79.08 Million/- |
| 3 | Time for completion | 11-Months. |
| 4 | Amount of Bid Security | PKR----- Million (s) |
| 5 | Issued to | -----
----- |
| 6 | Pre-tender conference | ----- |
| 7 | Dead Line for submission of Tender | 25-09-2019 up to 10:00am ----- |
| 8 | Opening of Tender | 25-09-2019 up to 10:30am----- |
| 9 | Issued by | In charge, Tender Cell, 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

GENERAL DIRECTIONS FOR

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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, 2nd quarter 2018 District Okara**), 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 ITEM WISE RATES 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) The tenderer shall quote his own unit rate in the Bill of quantities on which he is willing to

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- undertake each item of work.
9.
 - i. The tender shall work out the amount against each item of work in the Bill of Quantities and will indicate the total amount of his tender (including the cost of Non-MRS items rates for which the rate and amount has already been filled in by the engineer-in-charge in the Bill of Quantities) on which he is willing to complete the works. The total amount worked out in the Bill of Quantities shall be entered by the tenderer in his tender as his tender price for the work. In case of discrepancy between amounts in figures and in words, the amount in words shall prevail.
 - ii. Should any discrepancy be found in the amount of pay items or if a column of amount is found blank after filling in a unit rate, the unit rate filled by the tenderer will be extended in working out of the amount of the tender and the total amount of the bid schedule will be adjusted accordingly.
 - iii. If a unit rate is left blank, but the amount against the item is filled, the unit rate will be worked out on the basis of the amount divided by the quantity of the item shown in the bid schedule.
 - iv. If it is found that the tenderer has not entered any unit rate and amount against any of the pay items of the bid schedule, the engineer-in-charge shall fill in the blanks by noting the word "NIL" In such blanks at the time of opening of the tender. Such pay items shall be deemed to be covered by the rates of other items.
 - v. If the tenderer does not accept the adjusted/corrected amount of tender according to the above provision, his tender shall be rejected and the earnest money forfeited.
 10. The tender which proposes any alteration in the works specified in the Bill of quantities or in the time allowed for carrying out the works or any other condition mentioned by the Engineer-in-charge, will be liable to rejection. The tenderer shall sign each and every page of the tender and contract documents, without making any alteration. All enclosures issued with the contract documents, shall be attached with the tender duly signed by the tenderer. Any addition or alteration made after filing the forms shall duly attested by the tenderer. Non-compliance of this condition shall render the tender liable to rejection.
 11. The tenderer shall fill in the tender documents, in ink. Errors, if any, shall be scored out, and corrections re-written legibly and attested by the tenderer. Any addition or alteration made after filling the form shall be duly attested by the tenderer. Non-compliance of this condition shall render the tender liable to rejection. Any tender with unattested correction shall be attested by the tenderer in the presence of other tenderers at the time of opening of the tender except that no correction shall be permissible in the rate or amount of the bid schedule or in the tendered price after the opening of the tender.
 12. Additional Clause (s) for a particular work shall be typed on separate sheet(s) by the Engineer-in-charge, which will be annexed to the contract documents specifying the number of sheets. The tenderer shall not add or delete any additional clause(s) in the additional clauses sheet (s), provided by the Engineer-in-charge.
 13. The quantities mentioned in the Bill of Quantities are estimated quantities, to be used for preparing tenders, and the Engineer-in-charge does not expressly nor by implication agree that the actual amount of works to be performed will correspond therewith. No payment will be made on account of anticipated profits for work covered by the contract which is not performed, nor will any adjustment in the unit rates set forth in the bid schedule be made because of an increase or decrease in the actual quantities from the estimated quantities indicated therein, except as determined in accordance with the provisions of Clause 42 of the general conditions of contract.

14. No tender without earnest money shall be entertained, earnest money, calculated @ 2% of the estimated cost of the work (rounded suitably), shall be in the form of 'deposit at call receipt'. The earnest money of the unsuccessful tenderers shall normally be returned by the Treasurer, UAF 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 Tender Cell after the deadline for submission of tenders prescribed in the Notice Inviting Tenders will be returned unopened to the tenderer.
23. The Engineer-in-charge or his duly authorized officer (not below the rank of Assistant Engineer) will open tenders in the presence of intending tenderers or their authorized agents, who may be present at the time. The officer opening the tender will announce the names of the tenderer, tender rates and the presence of requisite tender security.
24. Promptly after the opening of Tenders, the Engineer-in-charge will undertake a detailed evaluation of tenders. The Engineer-in-charge will determine whether each tender is substantially responsive to the requirements of the tender documents and conforms to all the terms, conditions and specifications of the tender documents without material deviation or reservation. If a tender is not substantially responsive to the requirements of the tender documents, it will be rejected by the engineer-in-charge and may not subsequently be made responsive by the tenderer having corrected or withdrawn the non-confirming deviation or reservation.
25. Except for information to be read out by the Engineer-in-charge at the time of opening tenders in accordance with Para 23 above, no information relating to the examination, clarification, evaluation and comparison of tenders and recommendations concerning the award of contract shall not be disclosed to tenderers or other persons not officially concerned with such process. Any effort by the tenderer to influence the process of examination, clarification, evaluation and comparison of tenders, and in decisions concerning award of contract, may result in the rejection of his tender.
26. To assist in the examination, evaluation and comparison of tenders, the Engineer-in-charge may ask tenderers individually for clarification of their tenders, including

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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% and so on 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%
And so on	And so on

27. The Engineer-in-charge shall have the right of rejecting all or any of the tenders without assigning any reason thereof. The Engineer-in-charge will not be bound to award the contract to the lowest or to any other tenderer.
28. The unit rates and prices entered in the bid schedule will be the rates at which the contractor will be paid (subject to the adjustment specified in clause 55 of the annexed conditions) and shall be deemed to include all costs of performing the work, including income tax, super tax and/or other charges, duties and taxes of the Government, autonomous, semi-autonomous and local bodies, profits and costs of accepting the general risk, liabilities and obligations set forth in or implied from the contract.
29. Prior to the expiration of the period of tender validity (60 days) prescribed in the Tender Form or any extension thereof that may have been granted by the tenderer, the Engineer-in-charge will notify the successful tenderer by cable and confirm in writing by registered letter that his tender has been accepted. This letter of acceptance shall name the sum which will be paid in consideration of the execution, completion and maintenance of the works as prescribed in the contract, (hereinafter called the contract price). The notification of award will constitute the formation of the contract.
30. At the time, the Engineer-in-charge notifies acceptance of the tender to the tenderer he will send the tenderer the Form of Agreement provided in the tender documents, incorporating all agreements between the parties. Within fifteen (15) days of receipt of the Form of 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.

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33. A copy of the contract agreement may be obtained by the contractor at his own cost.

TENDER FOR WORK

To

The Incharge, Tender Cell

Dear Sir,

I/We.....

(Name of the contractor)

The undersigned tenderer, having examined the conditions of contract, specification, drawing bid schedule and addenda Nos..... there to, 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 favor of Treasurer UAF 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 full 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 all 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

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hereto, in the sum equal to 10 (ten) percent of the cost of the work in same form sum equal to 10 (ten) percent of the cost of the work in the same form and on the same condition as are prescribed by and to the satisfaction of the Engineer-in-charge.

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

Thanking you,

Yours faithfully,

(Signature of Tenderer)

Dated thisDay

NAME.....

Of20...

*Address.....

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

(Signature of Incharge, Tender Cell)

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MEMORANDUM OF WORK

- | | | |
|----|---|---|
| a) | General Description | Establishment of Sub-Campus of University of Agriculture Faisalabad at Depalpur-Okara (HEC Funded)
(Construction of Visiting Scientist Hostel & Multiple Purpose Hall) |
| b) | Estimated Cost | PKR: 79.08Million/- |
| 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. 1,581,600/- |
| d) | Percentage of security deposit to be retained from 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) | Mobilization period | Fifteen (15) calendar days |
| f) | Time allowed for completing the work after the expiry of mobilization period | -----calendar months |
| g) | 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 millions and as per general condition 26(a) for all tenders. |
| h) | Time period of maintenance (after the issuance of certificate of completion) | One Year |
| i) | <u>No Cost Escalation in the project</u> | |

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SUMMARY OF COST

ESTABLISHMENT OF SUB-CAMPUS OF UNIVERSITY OF
AGRICULTURE FAISALABAD, AT DEPALPUR - OKARA
(HEC FUNDED)

(Construction of Visiting Scientist Hostel & Multiple Purpose Hall)

S/N	DESCRIPTION	AMOUNT (Rs)
1	Visiting Scientist Hostel	
2	Staff Library	
3	Masjid	
4	Multiple Purpose Hall	
5	Total	
6	Add 5% PRA	
7	Grand Total :	
	IN MILLION	

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**ESTABLISHMENT OF SUB-CAMPUS OF UNIVERSITY OF AGRICULTURE
FAISALABAD, AT DEPALPUR - OKARA (HEC FUNDED)**

VISITING SCIENTIST HOSTEL

BILL OF QUANTITIES

CIVIL WORKS

Item No.	MRS ITEMS NO	Description of Items	Unit	Qty	Rate (Rs.)	Rate Quoted by The Contractor	Amount (Rs.)
MRS, 2nd BI-ANNUAL-2018 (1st July-2018 to 31st December-2018) DISTRICT OKARA							
		SCHEDULE ITEMS-A					
		Earth Work					
1	CH:3/47(a)	Jungle clearance and removing within 100 ft. (30 m).a) light	1000 Sft	6,160.00	152.35		
2	CH:3/21(b)	Excavation in foundation of building and other structures, including debelling,dressing,refilling around structure with excavated eart,watering and ramming lead upto one chain 100ft and lift upto 5 ft.in ordinary soil.	1000 Cft	8,205.56	6,434.20		
3	CH:3/15(i)(ii)	Filling, watering and ramming earth under floors:					
		i) with surplus earth from foundation, etc.	1000 Cft	5,470.38	3,083.00		
		ii) with new earth excavated from outside,lead upto 5 Mile.(as per actual borrow pit lead)	1000 Cft	5,733.49	12,299.60		

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		Anti-Termite					
4	CH:25/42	Spraying anti-termite liquid mixed with water in the ratio of 1:40.	100 Sft	7,589.56	224.80		
		Plain and Reinforcement Concrete					
5	CH:6/5	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:-					
		(i) Ratio 1: 4: 8	100 Cft	751.13	13,002.75		
6	CH:6/5	Cement concrete plain including placing, compacting , finishing and curing complete (including screening and washing of stone aggregate)Ratio 1:2:4					
6.1		(i) Ratio 1: 4: 8 (Under Footing)	100 Cft	477.05	17,919.25		
6.2		(f) Ratio 1: 2: 4 (Under Floor)	100 Cft	375.36	22,832.05		
	CH:6/6	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.):-					
7	(a)(ii)	Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and other structural members other than those mentioned in i) above not requiring form work (i.e. horizontal shuttering) complete in all respects:-					
		(3) Type C (Ratio1: 2: 4)(Footings)	Per/ Cft	1,713.57	266.70		

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8	(a)(i)	Reinforced cement concrete slabs, beams, girders, Lintels and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects;-					
		GROUND FLOOR					
		Type B (Ratio 1: 1½: 3)(Column)	Per/ Cft	559.27	392.05		
		Type C (Ratio 1: 2: 4)(Lintel)	Per/ Cft	175.22	361.90		
		Type C (Ratio 1: 2: 4)(Beam)	Per/ Cft	1,465.02	361.90		
		Type C (Ratio 1: 2: 4)(Slab)	Per/ Cft	1,536.16	361.90		
		Type C (Ratio 1: 2: 4)(Stair / Ramp)	Per/ Cft	138.44	361.90		
		FIRST FLOOR					
		Type B (Ratio 1: 1½: 3)(Column)	Per/ Cft	431.72	414.90		
		Type C (Ratio 1: 2: 4)(Lintel)	Per/ Cft	141.09	384.75		
		Type C (Ratio 1: 2: 4)(Beam)	Per/ Cft	784.87	384.75		
		Type C (Ratio 1: 2: 4)(Slab)	Per/ Cft	1,412.91	384.75		
		Type C (Ratio 1: 2: 4)(Stair)	Per/ Cft	53.29	384.75		
		MUMTY FLOOR					
		Type B (Ratio 1: 1½: 3)(Column)	Per/ Cft	46.40	437.75		
		Type C (Ratio 1: 2: 4)(Lintel)	Per/ Cft	5.63	406.79		
		Steel Reinforcement					

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9	CH:6/9	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) (ii) Deformed bar (Grade 60)	100 Kg	27,953.32	13,223.50		
10	CH:6/33(a)	Providing and laying damp proof course of cement concrete 1:2: 4(using cement, sand and shingle), including bitumen coating :- (a) with one coat of bitumen and one coat of polythene sheet ii) 2" thick (50 mm)	100 Sft	486.44	5,293.45		
11	CH:6/35(a)	Providing and laying vertical damp proof course with cement sand plaster and bitumen coating (a) with one coat of bitumen and one coat of polythene sheet ii) Ratio 1:3 b) ¾ " thick (20 mm)	100 Sft	815.63	3,424.15		
		Brick Work					
12	CH:7/-4i	Pacca brick work in foundation and plinth in:- Cement, sand mortar:-Ratio 1:6	100 Cft	2,247.21	17,558.45		
		GROUND FLOOR					
13	CH:7/5i	Pacca brick work in ground floor:-Ratio 1:5	100 Cft	4,510.31	19,211.40		
14	CH:7/5i	Pacca brick work in ground floor :-Ratio 1:4	100 Cft	142.13	19,734.60		
		FIRST FLOOR					
15	CH:7/5i	Pacca brick work in First floor:-Ratio 1:5	100 Cft	4,670.44	19,993.65		
16	CH:7/5i	Pacca brick work in First floor:-Ratio 1:4	100 Cft	235.22	20,516.85		

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		MUMTY FLOOR					
17	CH:7/5i	Pacca brick work in Mumty floor:-Ratio 1:5	100 Cft	735.94	20,948.80		
		Flooring					
18	CH:7/30	Supplying and filling sand under floor; or plugging in wells	100 Cft	1,177.16	1,693.90		
19	CH:10/3	Providing, laying, watering and ramming brick ballast 1½ to 2"(40 mm to 50 mm) gauge mixed with 25 % sand, for floor foundation, complete in all respects	100 Cft	1,864.25	4,300.30		
20	CH:10/22	2"(50 mm) thick mosaic flooring, consisting of ½ "(13 mm) mosaic topping of one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over 1½"(40 mm) thick floor of 1:2:4 cement concrete, including rubbing and polishing complete with finishing :-	100 Sft				
		(a) using grey cement	100 Sft	2,121.94	10,884.74		
		(b) using white cement	100 Sft	2,121.94	11,661.84		
21	CH:10/22	Mosaic dado or skirting with one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over ½"(13 mm) thick cement plaster 1:3, including rubbing and polishing, complete with finishing :- ii) ½"(13 mm) thick					
		(a) using grey cement	100 Sft	371.75	10,716.15		
		(b) using white cement	100 Sft	371.75	11,234.30		

Contractor

In-charge Tender Cell, UAF

22	CH:10/15(c)	Providing and laying topping of cement concrete 1:2:4, including surface finishing and dividing in panels:- 1½"(40 mm) thick					
		Plinth Protection	100 Sft	862.50	3,848.20		
23	CH:10/42(a)	Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels					
		a) Size 2" x 3/8" (50 x 10 mm)	Per Rft.	3,408.83	6.60		
		Surface Rendering					
24	CH:11/10(b)	Cement plaster ratio 1:3 under soffit of RCC roof slabs only, upto 20' height. 3/8" (10 mm) thick. (ceiling plaster)	100 Sft	5,554.52	2,074.05		
25	CH:11/9(b)	Cement plaster 1:5 on internal walls upto 20' (6 m) height and 1/2" (13 mm) thick.	100 Sft	10,949.00	1,747.25		
	CH:11/9(c)	Cement plaster 1:5 on internal walls upto 20' (6 m) height and 3/4" (20 mm) thick.	100 Sft	10,949.00	2,370.10		
26	CH:11/10(b)	Extra for lime, mud or cement plaster and pointing from 20' (6.00 m) and above for each additional 10' (3.00 m) height or part thereof.	100 Sft	480.00	235.35		
27	CH:11/18(b)	Cement pointing struck joints, on walls, upto 20' (6.00 m) height:- b) ratio 1:3	100 Sft	8,802.75	1,851.05		
		Wood Work					

Contractor

In-charge Tender Cell, UAF

28	CH:12/7(a)	First class deodar wood wrought joinery in doors and windows, etc. panelled, or panelled or glazed, or fully glazed, fixed in position, including chowkat, holdfast, hinges, tower bolts, chocks, rubber stop, cleats/G.I. clamps, handles and chord with hooks, etc. complete (excluding sliding bolt or lock):-a) 2" thick (50 mm)	Per/Sft	175.00	1,198.10		
29	CH:12/50	Providing and fixing 1½" (40mm) 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" (50mm x 10mm) around shutter including chromium plated fitting, iron hinges with aluminium kick plate 22 SWG on both sides & finger plate complete in all respect.	Per/Sft	668.50	363.10		
30	CH:12/51	Providing and fixing panelled door of M.S. sheet, with forged door leaves of M.S. sheet 22 SWG fitted in hollow frame chowkat 3"x4½" (75 mmx113 mm) made of M.S. sheet 18 SWG filled with plain cement concrete 1:3:6 etc. complete with all fittings and hammer painting, including carriage to site and fixing in position.	Per/Sft	24.50	414.00		
31	CH:12/58(b)	Providing and fixing ornamental wooden architrave 3" x(1½" tapered to ¼") all along the door frame complete in all respect.b)Deodar wood architrave	Per/Sft	843.50	44.95		
32	CH:12/21	Providing and fixing, approved quality mortice lock complete in aal respect	Each	37.00	551.05		

Contractor

In-charge Tender Cell, UAF

33	CH:12/59	Providing and fixing Vin board cabinet 3/4" thick with drawers 3" deep in 'Kitchen including termite proofing and polishing with synthetic enamel as specified, with handles hinges,screws etc., complete in all respects.iv) 2' deep,with back	Per/Sft	102.13	687.25		
34	CH:12/25	Providing and fixing wooden box type wardrobe 22" (550mm) deep including ¾" (20 mm) thick boxing and shelves,hanger rods, hard board back drawers, brass fittings,locking arrangements, handles, internal bolts, shoe rods,etc. including three coats of enamel paint:- ii) Deodar wood boxing, and deodar wood shelves and leaves, etc.	Per/Sft	542.50	1,079.60		
		Painting and Warnishing					
35	CH:13/31	Preparing surface and painting with emulsion paint:-3 Coats New Surface	100 Sft	27,452.52	1,153.45		
36	CH:13/32A	Providing and applying weather shield paint of approved quality on external surface of building including preparation of surface, application of primer complete in all respect:- 3 Coats New Surface	100 Sft	1,746.03	2,885.85		
37	CH:13/7	French polishing new surface	100 Sft	350.00	2,726.70		
38	CH:13/5(c)	Preparing surface and painting of doors and windows any type (including edges) 3 Coats New Surface	100 Sft	1,337.00	1,562.65		
		Metal Work					

Contractor

In-charge Tender Cell, UAF

39	CH:25/39	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.	19.00	678.90		
40	CH:25/39	Providing and fixing stair railing of 2½" (63 mm) i/d G.I. pipe, welded with 5/8"x5/8" (16x16 mm) square M.S. bars 2'-9" (838 mm) high, fixed in each step, complete in all respects, including painting, polishing three coats.	Per Rft.	64.00	806.70		
41	CH:25/53(a)	Providing and fixing all types of glazed aluminium windows of anodized champagne colour partly fixed and party sliding using deluxe section of approved manufacturer having Frame of size 100mm x 30mm using frame at bottom, at top and side leaf leaf frame sections of 60mm x 23mm at top & bottom and size 45mm x 25mm at center and size 45mm x 25mm at sides, Jali leaf frame size 43mm x 13mm i/c fine quality aluminum jali, 5mm thick imported tinted glass with rubber gasket using approved standard latches, wheel, stopper, brush channel angle joint and hardware etc. complete in all respect.a) 1.6 mm thick	Per/Sft	723.75	672.45		
		Roofing & Water Proofing					

Contractor

In-charge Tender Cell, UAF

42	CH:9/45a	Providing and Laying Insulation material of Extruded Polystyrene XPS in Rigid Insulation / Foam Board on roof or walls, Density 32-38Kg/M, compressive strength 250-400 kpa, R-value 5 per inch thickness and water absorption (1% by volume, cell structure closed cell) i/c cutting and placing in position complete in all respect. a) 1" thick	100 Sft	3,470.50	5,688.00		
43	CH:9/5	Single layer of tiles 9"x4½"x1½" (225x113x40 mm) laid over 4"(100 mm) earth and 1" (25 mm) mud plaster without Bhoosa, grouted with cement sand 1:3 on top of RCC roof slab, provided with 34 lbs. per %Sft. or 1.72 Kg/Sq.m bitumen coating sand blinded.i/c P/L polythene sheet 500 gauge	100 Sft	3,470.50	6520.5		
44	CH:9/15	Construction of Khuras on roof 2' x 2' x 6"	Each	7.00	497.55		
45	CH:9/16	Bottom Khuras of brick masonry in cement mortar 1:6,4'x2'x4½" (1200x600x113 mm) over 3" (75 mm) cement concrete 1:4:8.	Each	7.00	836.2		
	Total "A"(Schedule items)						
		NON SCHEDULE ITEMS-B					
		Flooring					

Contractor

In-charge Tender Cell, UAF

1	N.S	Providing and laying Porcelain tiles flooring (full body) 16"x16"x3/8" laid over 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement and matching pigment i/c cutting charges complete in all respects as approved & Directed by the Engineer Incharge. (Master, DWV series Polished (Dark color) class SB	Per/Sft	484.00	227.00		
2	N.S	Providing and laying CERAMIC FLOOR TILES (PREMIUM) Size 12x12x3/8 (CFT MATT) laid over 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement and matching pigment i/c cutting charges complete in all respects as approved & directed by the Engineer Incharge. Flooring. STILE TILES (Shabbir Tiles)	Per/Sft	1,033.88	158		
		Skirting					
3	N.S	Providing and laying Porcelain tiles flooring (full body) 16"x4"x3/8" laid over 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement and matching pigment i/c cutting charges complete in all respects as approved & Directed by the Engineer Incharge. (Master, DWV series Polished (Dark color) class SB Dado/ Skirting	Per/Sft	40.96	240.00		
		Dado					

Contractor

In-charge Tender Cell, UAF

4	N.S	Providing and laying CERAMIC WALL TILES (PREMIUM) size 12"x18"x3/8" laid over 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement and matching pigment i/c cutting charges complete in all respects as approved & directed by the Engineer Incharge.STILE TILES (Shabbir Tiles) Dado/ Skirting	Per/Sft	3,167.98	171.00		
		Entrance Steps / Podium					
5	N.S	Providing and fixing 3/4" thick pre-polished Marble Slab Granite uniform texture full width area above 2 sft laid over 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement & matching pigment i/c beveling charges on exposed edges complete in all respect as approved / directed by the Engineer Incharge	Per/Sft	265.81	613.00		
		Kitchen Counter					
6	N.S	Providing and fixing 3/4" thick pre-polished Marble Slab Sunny Grey uniform texture full width area above 2 sft laid over 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement & matching pigment i/c making gola on exposed edges complete in all respect as approved / directed by the Engineer Incharge.	Per/Sft	43.00	305.00		
		Stair Steps					
7	N.S	Providing and fixing 3/4" thick pre-polished Marble Slab Sunny Grey uniform texture full width area above 2 sft laid over 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement & matching pigment i/c beveling charges on exposed edges complete in all respect as approved / directed by the Engineer Incharge	Per/Sft	131.25	323.00		

Contractor

In-charge Tender Cell, UAF

		Miscellaneous					
8	Approved N.S	Providing and Fixing of M.S steel chowkats full jam of 10-1/2"x 2" single rebate of M.S 16 SWG with up to 4 Nos 5" long C.P hinges screwed / welded M.S flat iron 2" x 1/8" in back of hinges welded inside i/c 3/8" dia bars 2 Nos bottom with 6 NOS 6" long hold fast angle iron 1.5"x1.5"x3/16" also back fill with P.C.C 1:2:4 i/c painting with red oxide and bitumen coating on surface touching with concrete complete in all respect.	Per/Sft	458.50	330.00		
9	Approved N.S	Providing and Fixing M.S steel chowkats full jam of 5-1/2"x 2" single rebate of M.S 16 SWG with up to 4 Nos 5" long C.P hinges screwed / welded M.S flat iron 2" x 1/8" in back of hinges welded inside i/c 3/8" dia bars 2 Nos bottom with 6 NOS 6" long hold fast angle iron 1.5"x1.5"x3/16" also back fill with P.C.C 1:2:4 i/c painting with red oxide and bitumen coating on surface touching with concrete complete in all respect.	Per/Sft	252.00	291.00		
10	N.S	Providing and Fixing Pre-Cast Roof (Izhar Made of Girder & Slab) as shown in drawings complete in all respect and approved by the Engineer Incharge	Per/Sft	120.50	192.699		
		4" dia	Rft	134.00	250		
11	N.S	Provide and fix uPVC plain bends with grating (as rain water inlets at roof), water tight connection leak-free:					
		4" dia	Each	7.00	1,400		

Contractor

In-charge Tender Cell, UAF

12	N.S	Provide and fix uPVC shoe bends (as rain water outlets), water tight connection leak-free					
		4" dia	Each	7.00	1,000		
		Total "B"(Non Schedule items)					
		Net Total (A+B)					

Contractor

In-charge Tender Cell, UAF

ESTABLISHMENT OF SUB-CAMPUS OF UNIVERSITY OF AGRICULTURE FAISALABAD, AT DEPALPUR - OKARA CAMPUS (HEC FUNDED)

VISITING SCIENTIST HOSTEL

BILL OF QUANTITIES

PUBLIC HEALTH WORKS

Sr #	MRS	Description	Unit	Qty.	Unit Rate (Rs)	Rate Quoted by The Contractor	Amount (Rs)
MRS, 2nd BI-ANNUAL-2018 (1st July-2018 to 31st December-2018) DISTRICT OKARA							
		<u>SCHEDULE ITEMS</u>					
1	19-1-i	Providing and fitting glazed earthen ware water closet European type, excluding seat and cover:-	Each	14	2,191.50		
2	19-9-i	Providing and fixing glazed earthen ware sink, including bracket set, waste pipe and waste coupling: 60x45 cm (24"x18")	Each	1	1,740.60		
		<u>G.I Piping</u>					
3	23-22-iii	Providing, laying, cutting, jointing, testing and disinfecting G.I. pipeline in trenches, (Cost of sockets, tees, elbows, bends, valves, crosses, unions and plugs, etc. is included in the rates) with socket joints, using G.I pipes of B.S.S. 1387-1967 complete in all respects, with specials and valves. Heavy Duty					
		a) ¾" i/d (20 mm) 3.25mm thick	Rft	22	141.15		
		<u>SEWERAGE</u>					

Contractor

In-charge Tender Cell, UAF

4	21-1	Providing and laying RCC pipe, moulded with cement concrete 1:1.5:3, with spigot socket or collar joint, etc. including cost of reinforcement, confirming to B.S. 5911: Part I: 1981, class "L" including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing, cutting pipes where necessary, finishing and testing, etc. complete.					
		(i) 150 mm (6:) i/d	Rft	275	190.50		
		(ii) 225 mm (9:) i/d	Rft	1	343.20		
5	23-27	Providing, laying, cutting, jointing, testing and disinfecting. pipes of B.S.S. with 'D' 2 and valves is not included in the Class working pressure complete in all respects:-					
		a) 2" i/d (75 mm)	Rft	30	79.50		
		b) 3" i/d (75 mm)	Rft	660	169.00		
		c) 4" i/d (110 mm)	Rft	330	281.60		
6	21-17	Providing and fixing 6" thick RCC manhole cover with 3"x3"x1/4" angle iron frame, 22" i/d as per standard drawing STD/PD no. 7 of 1977, complete in all respects.	Per set	11	4,729.90		
Total "A"(Schedule items)							
		<u>NON SCHEDULE ITEMS</u>					
1	PH-0017	P/F OF FLUSHING CISTERN. 3 Star Made	Nos.	14	3,300		
2	PH-0019	P/F OF VANITY COUNTER BASIN INCLUDING COST OF FITTINGS. 3 Star Made	Nos.	14	4,340		
3	PH-0009	P/F OF SINK MIXER (020) 1/2" DIA Master Made	Nos.	1	4,500		
4	PH-0008	P/F OF BASIN MIXER (801) 1/2" DIA Faisal Made	Nos.	14	4,750		
5	PH-	P/F OF WALL SHOWER (054). Mater Made	Nos.	19	9,700		

Contractor

In-charge Tender Cell, UAF

	0011						
6	PH-0001	P/F OF BIB COCK 1/2" DIA. (005) Master Made	Nos.	14	1,145		
7	PH-0004	P/F OF TEE STOP COCK (1404) 1/2" DIA. Faisal Made	Nos.	42	1,232		
8	PH-0022	P/F OF SOAP Dish 2007). Master Made	Nos.	14	525		
9	PH-0022	Providing and fixing toilet paper holder heavy duty master made with fitting material.	Nos.	14	1,200		
10	PH-0021	P/F OF TOWEL RAIL WITH BRACKETS CHROMIUM PLATED (5302). Faisal Made	Nos.	16	920		
11	PH-0115	Making Sewerage Connection To Existing Manhole Of Main Sewerage Pipe Line Including Cost Of Plugging, Dewatering, De-Silting, Making Hole In Wall Repairing And Restoration Etc Complete In Working Condition	Job	1	1,200		
12	PH-0014	P/F OF MUSLIM SHOWER (1406). Faisal Made	Nos.	14	867		
13		PPR PIPE					
	PH-0025	P/F OF PPRC PIPE 25MM DIA COMPLETE WITH ALL RESPECT. Dadex Made	497	Rft	135		
	PH-0027	P/F OF PPRC PIPE 32MM DIA COMPLETE WITH ALL RESPECT. Dadex Made	174	Rft	145		

Contractor

In-charge Tender Cell, UAF

	PH-0029	P/F OF PPRC PIPE 40MM DIA COMPLETE WITH ALL RESPECT. Dadex Made	527	Rft	230		
	PH-0031	P/F OF PPRC PIPE 50MM DIA COMPLETE WITH ALL RESPECT. Dadex Made	165	Rft	340		
	PH-0033	P/F OF PPRC PIPE 63MM DIA COMPLETE WITH ALL RESPECT. Dadex Made	220	Rft	525		
14		Valves					
		Providing and installing valves of following nominal dia,					
	PH-0111	P/F OF H&LE VALVE 1". Faisal Made	1	Nos.	900		
	PH-0112	P/F OF H&LE VALVE 1-1/2" DIA.Faisal Made	15	Nos.	1,700		
	PH-0113	P/F OF GATE VALVE 2" DIA. Kitz Made	2	Nos.	6,300		
15		Vent Cowel					
	PH-0095	P/F OF NIKASI VENT COWL 110MM.DADEX MADE:					
		4" i.d	30	Nos	190		
16		Multifloor Trap					
	PH-0020	P/F OF NIKASI P-TARP 110MM. DADEX MADE	55	Nos.	1,700		
17	NS	Glass					

Contractor

In-charge Tender Cell, UAF

		Providing and fixing best quality distortion free imported Belgium glass (beveled) mirrors 5mm thick, with hard board backing, chromium plated screws/brackets, complete in all respects as per specifications and drawings.	98	Sqft	180		
18	NS	Valves					
		Providing and installing ball valves of following nominal dia, Kitz make or approved Equaivalent, including jointing, fitting, painting, testing, complete in all respects to match with PPR and PE pipes of following diameters.					
		32 mm	15	Nos	5,106		
		63 mm	2	Nos	22,000		
19	NS	Providing and installing Gas Geyser including All types of Valves & fitting accessories, complete in all respect as per specifications and drawings.					
		55 Gallon Geyser	2	Nos.	30,000		
20	NS	Clean Out					
		Providing and fixing clean out with threads ferule fixed in pipe with the help of solvent, as shown on drawing, complete in all respects as per specifications and drawings.					
		3" i.d	17	Nos.	4,450		
		4" i.d	1	Nos.	5,450		
21	NS	Gully Trap					
		Providing and making Gully trap 1'-0"x1'-0" internal size including 9" thick brick masonry (1:4), 1/2" th. Plastering (1:3) i/side, benching with PCC 1:2:4 4" th. with cement finish, including steel grating cover, chamber 6" dia RCC Pipe and connection with manhole. complete in all respect as per specifications, drawings & Engineer in charge.	14	Nos.	15,000		
22	NS	Manhole					

Contractor

In-charge Tender Cell, UAF

		Providing and constructing 2'x2' manhole with brick work including excavation, backfilling, RCC work PCC 1:2:4 cambering, plastering in 1:4 inside & outside, water proofing etc., upto 6' depth and size including ladder top slab, 18" heavy duty C.I. Manhole cover with frame "ALPINE INDUSTRIAL CON", "CME", "NPC SUPER" as shown on the drawings, complete in all respect as per specifications and drawings.	11	Nos.	25,000		
23	NS	Khurra / R.W.C.B					
		Providing and making top khurra/R.W.C.B using 3" thick plain cement concrete 1:2:4 matching with roof tiles with steel trowel finishing at desired level including curing, finishing, complete in all respect as per specifications and drawings.					
		i) 2'x2'.	2	Nos.	1,500		
Total "C"(Non Schedule items)							
Total (A+B+C)							

Contractor

In-charge Tender Cell, UAF

**ESTABLISHMENT OF SUB-CAMPUS OF UNIVERSITY OF AGRICULTURE
FAISALABAD, AT DEPALPUR - OKARA CAMPUS (HEC FUNDED)**

VISITING SCIENTIST HOSTEL

ENGINEER'S ESTIMATE

ELECTRICAL WORKS

Sr No	REF. Nos CH/ITEM	Item No.	Description	Unit	Estimated Quantity	Rate (Rs)	Rate Quoted by The Contractor	Amount (Rs)
MRS, 2nd BI-ANNUAL-2018 (1st July-2018 to 31st December-2018) DISTRICT OKARA								
A) Schedule Items								
1		1.1	<u>Light Circuits.</u>					
			Supply, installation and commissioning of light circuit wiring, to be wired with 3x2.5mm sq. (1P+1N+1CPC) PVC insulated 300/500 V grade wire, manufactured by M/s. Pakistan Cables Ltd, Pioneer Cables, Newage Cables in and including cost of 3/4" dia. heavy duty PVC conduit make Beta, Shavyl or Premium, recessed in , walls, Roof slab, or on surface or above false ceiling or as required as per site conditions, all PVC conduit accessories, pull boxes, steel pull wires , complete in all respects. Each circuit shall have independent CPC. Maximum wiring of 2 light circuits can be pulled through 1" dia. PVC conduit. (CK=19)					

Contractor

In-charge Tender Cell, UAF

	[Ref: Item 10 (a- iii)/24]]		Supply and erection of single core PVC insulated copper conductor cables in prelaidd PVC pipe/M.S conduit G.I pipe\wooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only) i) Cost of 1 No. 1x 2.5 mm (7/0.029")	Rft	3990	15.95		
	[Ref: Item 3(iii)/24]		Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 25mm	Rft	1330	47.85		
		1.2	<u>1st Light Point Controlled By One Switch</u>					
			Wiring of first light point controlled by one switch and wired with 2x1.5 mm sq.(P+N) PVC insulated wires 300/500 V grade, manufactured by M/s. Pakistan Cables Ltd, Pioneer Cables, Newage Cables in and including cost of 3/4" dia. heavy duty PVC conduit make Beta, Shavyl or Premium, recessed in wall, columns slabs or above light carrier all PVC conduit accessories, 3" high PVC junction boxes, pull boxes, steel pull wires, PVC flexible conduit from ceiling junction box to light fixture with brass chuck nut including 1.5mm sq. PVC insulated wire of colour green as CPC, M.S. sheet steel switch box 16 SWG with earth terminal and 2 coats of enameled paint, M.S. box shall be of the same size as that of 1, 2 or 3 gang flush type plate switches, excluding cost of gang type light switches 10 amps (CK=33)					
	[Ref: Item 10 (a-i)/24]		Supply and erection of single core PVC insulated copper conductor cables in prelaidd PVC pipe/M.S conduit G.I pipe\wooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only)	Rft	5415	11.7		

Contractor

In-charge Tender Cell, UAF

			i) Cost of 1 No. 1x 1.5 mm (3/0.029")					
	[Ref: Item 3(ii)/24]		Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 20mm	Rft	2707.5	41.45		
			Supply and erection of PVC sheet box for recessed wiring, including making holes for ragulators, switches and plugs, complete in all respect as approved by the engineer incharge.					
		1.3	<u>Point- Points Wiring</u>					
			Same as Item No. 1.2 but Loop wiring of a light point from fist light point with 2x1.5 mm sq.(P+N) PVC insulated wires 300/500 V grade, manufactured by M/s. Pakistan Cables Ltd, Pioneer Cables, Newage Cables in and including cost of 3/4" dia. heavy duty PVC conduit make Beta, Shavyl or Premium recessed in wall, columns slabs or above light carrier all PVC conduit accessories, 3" high PVC junction boxes, pull boxes, steel pull wires, PVC flexible conduit from ceiling junction box to light fixture with brass chuck nut including 1.5mm sq. PVC insulated wire of colour green as CPC, M.S. sheet steel switch box 16 SWG with earth terminal and 2 coats of enameled paint. (CK=90)					
	[Ref: Item 10 (a-i)/24]		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 and capping/G.I wire/trenches (rate for cables only)i) Cost of 1 No. 1x 1.5 mm (3/0.029")	Rft	6750	11.7		

Contractor

In-charge Tender Cell, UAF

	[Ref: Item 3(ii)/24]		Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 20mm PVC pipe	Rft	3375	41.45		
		1.4	<u>1- 13 Amps Switch Socket</u>					
			Wiring and fixing of one 13A light plug sockets from DB to point with 2x1 core 4 mm sq. + 1x2.5mm sq. CPC, PVC wires 300/500 Volt grade, M/s. Pakistan Cables Ltd, Pioneer Cables, Newage Cables in and including cost of 1" dia. heavy duty PVC conduit, make Beta, Shavyl or Premium recessed in walls, floor, above false ceiling or as required as per site conditions, all PVC conduit make Beta accessories, pull boxes, steel pull wires, M.S. box shall be made of 16 SWG sheet steel with earth terminal having 2 coats of antirust paint, M.S. box shall be of the same size as that of 1-13Amps switch socket, including cost of 13 Amps 3 pin combined switch socket make BUSH Pakistan. Wiring shall be done directly from the MCB installed in the respective DB without any claim of circuit. (CK=10)					
	[Ref: Item 10 (a-iv)/24]		Supply and erection of single core PVC insulated copper conductor cables in prelaidd PVC pipe/M.S conduit G.I pipe\wooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x4 mm ² (7/0.036")	Rft	3240	22.95		
	[Ref: Item 10 (a-iii)/24]		Supply and erection of single core PVC insulated copper conductor cables in prelaidd PVC pipe/M.S conduit G.I pipe\wooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only)	Rft	1620	15.95		

Contractor

In-charge Tender Cell, UAF

			ii) Cost of 1x2.5 mm ² (7/0.029")					
	[Ref: Item 3(ii)/24]		Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials iii) Cost of 25 mm PVC pipe	Rft	1620	47.85		
		1.5	<u>Loop-Loop- 13 Amps Switch Socket</u>					
			Same as above item No. 1.4 but loop wiring of 13A light plug socket outlet from DB to point with 2x1 core 4 mm sq. + 1x2.5mm sq. CPC, PVC wires 300/500 Volt grade, make M/s. Pakistan Cables Ltd, Pioneer Cables, Newage Cables in and including cost of 1" dia. heavy duty PVC conduit, make Beta, Shavyl or Premium recessed in walls, floor, above false ceiling or as required as per site conditions, all PVC conduit make Beta accessories, pull boxes, steel pull wires, M.S. box shall be made of 16 SWG sheet steel with earth terminal having 2 coats of antirust paint, M.S. box shall be of the same size as that of 1-13Amps switch socket, including cost of 13 Amps 3 pin combined switch socket make BUSH Pakistan. Wiring shall be done directly from the MCB installed in the respective DB without any claim of circuit.					
	[Ref: Item 10 (a-iv)/24]		Supply and erection of single core PVC insulated copper conductor cables in prelaidd PVC pipe/M.S conduit G.I pipe\wooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x4 mm ² (7/0.036")	Rft	4590	22.95		

Contractor

In-charge Tender Cell, UAF

	[Ref: Item 10 (a-iii)/24]		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 and capping/G.I wire/trenches (rate for cables only) ii) Cost of 1x2.5 mm2 (7/0.029")	Rft	2295	15.95		
	[Ref: Item 3(ii)/24]		Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specialsiii) Cost of 25 mm PVC pipe	Rft	2295	47.85		
		1.6	<u>1 x 3 Pin 20 Amps Switch Socket</u>					
			Wiring and fixing of one 20A power sockets outlet with 2x 4mm2(P+N) & 1x2.5mm2 as CPC single core cables from DB to point combined switch socket outlet creamic Base with Rocker Switch (Shuttered) Silver Point, Neon Light Heavy duty 2P+E, 20A,250V. PVC wires 300/500 Volt grade, M/s. Pakistan Cables Ltd, Pioneer Cables,Newage Cables in and including cost of 1" dia. heavy duty PVC conduit, make Beta , Popular recessed in walls, floor, above false ceiling or as required as per site conditions, all PVC conduit make Beta, Shavyl or Premium accessories, pull boxes, steel pull wires, M.S. box shall be made of 16 SWG sheet steel with earth terminal having 2 coats of antirust paint , M.S. box shall be of the same size as that of 1-20Amps switch socket, including cost of 15 Amps 3 pin combined switch socket make BUSH Pakistan. Wiring shall be done directly from the MCB installed in the respective DB without any claim of circuit.(CK=2)					

Contractor

In-charge Tender Cell, UAF

	[Ref: Item 10 (a-iv)/24]		Supply and erection of single core PVC insulated copper conductor cables in prelaidd PVC pipe/M.S conduit G.I pipe\wooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x4 mm2 (7/0.036")	Rft	360	22.95		
	[Ref: Item 10 (a-iii)/24]		Supply and erection of single core PVC insulated copper conductor cables in prelaidd PVC pipe/M.S conduit G.I pipe\wooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x2.5 mm (7/0.029")	Rft	180	15.95		
	[Ref: Item 3(ii)/24]		Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 25 mm	Rft	180	47.85		
		1.7	<u>1 x 3 Pin 20 Amps Switch Socket for AC</u>					
			Wiring and fixing of one 20A power sockets outlet with 2x 6mm2(P+N) & 1x4mm2 as CPC single core cables from DB to point combined switch socket outlet creamic Base with Rocker Switch (Shuttered) Silver Point, Neon Light Heavy duty 2P+E, 20A,250V. PVC wires 300/500 Volt grade, M/s. Pakistan Cables Ltd, Pioneer Cables,Newage Cables in and including cost of 1" dia. heavy duty PVC conduit, make Beta , Popular recessed in walls, floor, above false ceiling or as required as per site conditions, all PVC conduit make Beta, Shavyl or Premium accessories, pull boxes, steel pull wires, M.S. box shall be made of 16 SWG sheet steel with earth terminal having 2 coats of antirust paint , M.S. box shall be of the same size as that of 1-15Amps switch socket, including cost of 15					

Contractor

In-charge Tender Cell, UAF

			Amps 3 pin combined switch socket make BUSH Pakistan. Wiring shall be done directly from the MCB installed in the respective DB without any claim of circuit.(CK=16)					
	[Ref: Item 10 (a-v)/24]		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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x4 mm ² (7/0.044")	Rft	2880	32.25		
	[Ref: Item 10 (a-iv)/24]		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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x2.5 mm (7/0.036")	Rft	1440	22.95		
	[Ref: Item 3(ii)/24]		Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 25 mm	Rft	1440	47.85		
		1.8	Fan Points Conforming to same specifications as mentioned above for Item No. 1.2. but wiring of ceiling fan points, including cost of MS hook box circular type having MS hook 16 mm (5/8") dia make Unique, Beta to be casted in RCC slab, MS switch board of appropriate size to accommodate dimmer, complete in all respects, including dimmer provided by the Fan manufacturer.(CK=21)					
	[Ref : Item 49/24]	i	Supply and erection of 3/8" (10 mm) dia M.S. bar fan hook placed at the time of casting of slab.	Each	21	39.45		

Contractor

In-charge Tender Cell, UAF

	[Ref : Item 14(ii)/24]	ii	Back Box (7"x4")	Each	21	221.90		
	[Ref: Item 10 (a-i)/24]	iii	Supply and erection of single core PVC insulated copper conductor cables in prelaid PVC pipe/M.S conduit G.I pipe\wooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 1.5 mm (3/0.029")	Rft	1995	11.7		
	[Ref: Item 3(ii)/24]	iv	Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 20mm	Rft	997.5	41.45		
		1.9	<u>Exhaust Fans Points</u> Conforming to same specifications as mentioned above in Item No. 1.2 but wiring of exhaust fan point excluding cost of hook box but including cost of 10 A switch make Clipsal M.S box 16 SWG with earth terminal, 2 coats of antirust point, all fixing accessories, 1-5 Amps ceiling rose and including one switch of 10 amps switch. (CK=15)					
	[Ref: Item 10 (a-i)/24]		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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 1.5 mm (3/0.029")	Rft	1425	11.7		
	[Ref: Item 3(ii)/24]		Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 20mm	Rft	712.5	41.45		
2			<u>L.T. Power Cables</u>					

Contractor

In-charge Tender Cell, UAF

			Supply at site, installation, testing and commissioning of PVC insulated non armoured copper conductor cable 600 / 1000 Volt grade manufactured by any one of the manufacturers M/s. Pakistan Cables Ltd, Pioneer Cables, Newage Cables in prelaidd conduits / trenches to be installed as per routes shown on drawings including cost of all necessary materials, connections, identification tags, cables lugs properly crimped at both ends for the following sizes complete in all respects. Actual length of cables to be installed shall be practically measured at site by the Contractor, duly authenticated by the employers electrical engineer before placing the order with the manufacturer, however, approximate length of cables are shown herewith. Payments shall be made as per actual length installed.					
	-	2.1	<u>4 Core Cable PVC/PVC</u>	-	-	-	-	
	13-d-(iii)/24		c) 4 core 50mm sq. armoured Cable	Rft	150	1014.95		
	13-d-(ii)/24		c) 4 core 35mm sq. armoured Cable	Rft	300	750.30		
		2.2	<u>Circuit Protective Conductor (CPC)</u>					
	12-(ii)/24		c) 1 core 25mm sq.	Rft	150	129.55		
	12-(i)/24		c) 1 core 16mm sq.	Rft	300	77.90		
3			<u>PVC Conduit</u>					

Contractor

In-charge Tender Cell, UAF

		3.1	Supply at site of PVC conduit heavy duty make Beta, Shavyl or Premium to be concealed in RCC slabs, walls, floor, columns above false ceiling or as required as per site conditions including cost of all PVC conduit accessories, steel pull wires, complete in all respects.					
	3(vi)/24		e) 2" Did PVC Conduit	Rft	200	84.25		
		3.2	<u>PVC PIPE FOR TELEPHONE SYSTEM</u>					
			Supply and erection of PVC pipe for wiring recessed in walls, including inspection boxes, pull boxes, hooks, cutting harries, and repairing surface, etc., complete with all specials.					
	3-(iii)/24	a	25 mm i/d	Rft	350	47.85		
	3-(v)/24	b	40 mm i/d	Rft	75	71.05		
		3.3	<u>PVC PIPE FOR COMPUTER SYSTEM</u>					
			Supply and erection of PVC pipe for wiring recessed in walls, including inspection boxes, pull boxes, hooks, cutting harries, and repairing surface, etc., complete with all specials.					
	3-(iii)/24	a	25 mm i/d	Rft	270	47.85		
	3-(v)/24	b	40 mm i/d	Rft	125	71.05		
			Total A-(Schedule Items)=					
B) Non-Schedule Items.								
1			Switch & Sockets.					
	Approved NS	1.1	i) Providing and Installation of PVC Sheet Back Box 7.5 cm x 7.5 cm (6"x3") (Non Metallic) China Made	Each	8	78.00		
	Approved NS	1.2	i) Providing and Installation of PVC Sheet Back Box 7.5 cm x 7.5 cm (3"x3") (Non Metallic) China Made	Each	109	120.00		

Contractor

In-charge Tender Cell, UAF

	E-1053	1.3	Supply & fitting of 10A, 1 Gang 1 Way Switch Clipsal Made Bush / Orange made, As per approval of Engineer Incharge.	Each	2	248.00		
	E-1048	1.4	Supply & fitting of 10A, 2 Gang 1 Way Switch Clipsal Made Bush / Orange made, As per approval of Engineer Incharge.	Each	3	366.00		
	E-1050	1.5	Supply & fitting of 10A, 4 Gang 1 Way Switch Clipsal Made Bush / Orange made, As per approval of Engineer Incharge.	Each	3	669.00		
	E-1051	1.6	Supply & fitting of 10A, 5 Gang 1 Way Switch Clipsal Made Bush / Orange made, As per approval of Engineer Incharge.	Each	4	777.00		
	E-1052	1.7	Supply & fitting of 10A, 6 Gang 1 Way Switch Clipsal Made Bush / Orange made, As per approval of Engineer Incharge.	Each	20	989.00		
	E-1057	1.10	Supply & fitting of 13A switch socket Clipsal Made	Each	69	561.00		
	E-1059	1.14	Supply & fitting of 15A switch socket Clipsal Made	Each	17	610.00		
2			<u>Light Fittings And Fixtures</u>					
		2.1	<u>LIGHTS</u>					
	E-1018	i	Supply & fitting of LED Down Light 18 Watts Surface mounted DN027C LED CW 6500K Philips Made	Each	147	2703		
	E-1009	i	Supply & fitting of LED flood light 50 watts IP65 BVP 135 Philips Made	Each	2	7665		
	E-1054	2.2	Supply & fitting of Fan speed controller switched Clipsal Made	Each	21	1242.00		
	E-1045		Supply & fitting of ceiling Fan 56" copper (Energy Efficient Pak Fan Deluxe Model as approved by PEECA)	Each	21	4498		

Contractor

In-charge Tender Cell, UAF

	Approved NS		Providing and Installation of PVC Fan Box Including Rod Popular Made.	Each	21	150		
		2.4	<u>Exhaust Fans</u>					
			Supply & fitting of Exhaust Fan 12" copper plastic body (Energy Efficient Model) G.F.C or Equivalent Made NEECA/PEECA Approved					
	E-1021	i	12" dia (Plastic Body).	Each	15	3118		
3			<u>L.T. Switchgear</u>					
			<u>Distribution Board Concealed</u>					
			Supply, installation, connection of wires cables, and commissioning of distribution boards concealed type or to be installed on wall, made of 16 SWG M.S. sheet with hinged door, handle, catcher, earthing bar and neutral link with necessary holes, nuts, bolts, washers, earthing of DB door with braided copper internal wiring , PVC cable glands for incoming and out going wires/cables, 2 earthing terminals designation label engraved on plastic sheet of appropriate size to be pasted on the front side of DB, 3 phase indication lamps of colour red, yellow, blue, make Hager, Legrand (France) SV122 SV128 SV126 moulded case circuit breaker with overload and short circuit protection (MCCB) to be installed on the incoming side, Icu not less than 10 KA , and for miniature circuit breakers Icu 6 KA make G.E (Europe & USA), M.G., Legrand (France), ABB (Italy) Terasaki (Japan) having overload and short circuit protection, including cost of all necessary fixing accessories complete in all respects make					

Contractor

In-charge Tender Cell, UAF

			Tariq Electric, Billal Engineering, PEL, Techno Engineering.					
	Appendix 'c'	3.1	<u>DBLP-G</u> 01 No. Incoming 100 Amp MCCB TP, RC=10 kA 30 No. Outgoing 10/16/20 Amp MCB SP, RC=6 kA a) Volt Selector Switch b) 1 No Digital voltmeter c) 3 No indication lights 220 Volt d) 3 Ph N & Earth copper busboars e) Internal wiring & Line-up terminal,Cable Numbering Sleeves etc f) Panel steel grid painted along with locking arrangement	Each	2	65977		
	Appendix 'c'	1.4	<u>MPB (Main Panel Board- WAPDA)</u> 01 No. Incoming 200 Amp MCCB TP, RC=35 kA 03 No. Outgoing 100 Amp MCCB TP, RC=16 kA a) 3 No Digital ammeter b) 3 No Digital voltmeter c) 3 No indication lights 220 Volt d) 3 Nos. Current Transformer 300/5A e) 300 Amp. 3 Ph N & Earth copper busboars f) Internal wiring & Line-up terminal,Cable Numbering Sleeves etc g) Panel steel grid painted along with locking arrangement h) Cost Includes Brass Cable glands, Thimbles, Nut bolts, Installation, Termination and Commissioning	Each	1	194053		
4		4.1	<u>Earthing System</u>					

Contractor

In-charge Tender Cell, UAF

	Appendix 'c' Page No-4		Supply, installation, commissioning and testing of the earthing system including cost of the following 3 meter long of 5/8"dia tinned copper electrodes. up-to water level including cost of boring and lowering complete with clamp and 2 X 25mm ² stranded copper conductor from copper rod to ground surface in 1-1/2" uPVC Pipe class D with watering cap manhole with cover as per detail complete in all respects. and the resistance should up to 1-3 Ohms. the installation / test should be conducted in presence of engineer incharge.	Job	1	44138		
		4.2	<u>Earth Connecting Point</u>					
	Appendix 'c' Page No-5		Supply, installation of earth connecting points consisting of copper plate 12" long, 2" wide and 1/2" thick to be installed as and where shown on drawings on the wall of the trenches, complete with fixing arrangement, brass nuts bolts complete in all respects to facilitate connections of Incoming copper strips and Outgoing CPC.	Nos.	1	3278		
		4.3	<u>Manhole</u>					
	Appendix 'c' Page No-6		Constructing of 2'x 2'x 2.5' (internal size) including earth work 4" thick PCC 1:4:8 9" thick first class burnt brick work in 1:5 mortar, plastered inside in 1:5 cement sand and 4" thick RCC cover with grade 40 reinforcement.	Nos.	1	7238		
5			<u>Telephone System</u>					
		5.2	<u>Telephone Outlet</u>					
	Approved N.S		Supply / Erection of Bush made data single socket (RJ-11) including 16 SWG back box of 3"x3" size complete in all respect.	Each	4	778.48		
		5.3	<u>Telephone Cables</u>					

Contractor

In-charge Tender Cell, UAF

			Providing & laying multi pairs (Twisted) PVC insulated / underground cable of best quality (siemens, Germany, or Best imported as per approved sample) in pre-laid PVC recessed conduit or fixed cable duct/ Tray as per satisfaction of the Electrical Engineer.					
	Approved N.S	a	<u>4-5 Pair Cable CAT-6/UG/PVC (0.6 mm sq) (From DP to each Room)</u>	Rft	950	22		
		5.4	<u>Telephone Junction Box 20 Pairs (TJB)</u>					
	Appendix 'c' Page No-15		Supply, installation and commissioning of telephone junction box 250/5 make Krone Germany Krone No. 6525/1/022/00 of approved colour, designation label as per drawing, including disconnecting modules of 20 Nos. Type 2/10 LSA Plus Profile Krone Germany No. 6089/1/102/02 for incoming and out going telephone cables, all necessary accessories complete in all respects.	Each	1	6,466		
6			<u>TV Cable System</u>					
		6.2	<u>TV Socket</u>					
			Supply & erection of Bush/Clipsal series. TV Socket 9.5mm Direct					
	Appendix 'c' Page No-7		<u>TV Socket 9.5mm Direct</u>	Each	16	964		
		6.3	<u>TV Cables</u>					
			Providing and laying coaxial PVC insulated TV Antenna cable 50 ohms of best quality (imported) in pre-laid PVC recessed conduit or fixed cable duct as per satisfaction of the Electrical Engineer.					

Contractor

In-charge Tender Cell, UAF

	Appendix 'c' Page No-8	a	<u>Coaxial Cable RG-6</u> <u>(From JB to each room)</u>	Rft	1200	62		
		6.4	<u>TV Junction Box</u>					
	E-1079		P/F of MS Sheet Box 16 SWG including cutting , molding, welding, painting with powder coated paint (3-Coats) with lock and key arrangement complete in all respects	Each	2	2100		
			Total B(Non-Schedule Items)=					
			Total (A+B)=					

Contractor

In-charge Tender Cell, UAF

**ESTABLISHMENT OF SUB-CAMPUS OF UNIVERSITY OF AGRICULTURE
FAISALABAD, AT DEPALPUR - OKARA (HEC FUNDED)**

STAFF LIBRARY

BILL OF QUANTITIES

CIVIL WORKS

Item No.	MRS ITEMS NO	Description of Items	Unit	Qty	Rate (Rs.)	Rate Quoted by The Contractor	Amount (Rs.)
MRS, 2nd BI-ANNUAL-2018 (1st July-2018 to 31st December-2018) DISTRICT OKARA							
		SCHEDULE ITEMS-A					
		Earth Work					
1	CH:3/47(a)	Jungle clearance and removing within 100 ft. (30 m).a) light	1000 Sft	2,000.00	152.35		
2	CH:3/21(b)	Excavation in foundation of building and other sructures, including debelling,dressing,refilling around structure with excavated eart,watering and ramming lead upto one chain 100ft and lift upto 5 ft.in ordinary soil.	1000 Cft	4,215.86	6,434.20		
3	CH:3/15(i)(ii)	Filling, watering and ramming earth under floors:					
		i) with surplus earth from foundation, etc.	1000 Cft	2,810.57	3,083.00		
		ii) with new earth excavated from outside,lead upto 5 Mile.(as per actual borrow pit lead)	1000 Cft	3,261.99	12,299.60		

Contractor

In-charge Tender Cell, UAF

		Anti-Termite					
4	CH:25/42	Spraying anti-termite liquid mixed with water in the ratio of 1:40.	100 Sft	3,938.33	224.80		
5	CH:6/5	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:-					
		(i) Ratio 1: 4: 8	100 Cft	428.25	13,002.75		
		Plain and Reinforcement Concrete					
6	CH:6/5	Cement concrete plain including placing, compacting , finishing and curing complete (including screening and washing of stone aggregate)					
6.1		(i) Ratio 1: 4: 8 (Under Footing)	100 Cft	279.95	17,919.25		
6.2		(f) Ratio 1: 2: 4 (Under Floor)	100 Cft	240.94	22,832.05		
	CH:6/6	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.):-					
7	(a)(ii)	Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and other structural members other than those mentioned in i) above not requiring form work (i.e. horizontal shuttering) complete in all respects:-					
		(3) Type C (Ratio1: 2: 4)(Footings)	Per/ Cft	1,259.54	266.70		

Contractor

In-charge Tender Cell, UAF

8	(a)(i)	Reinforced cement concrete slabs, beams, girders, Lintels and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects;-					
		GROUND FLOOR					
		Type B (Ratio 1: 1½: 3)(Column)	Per/ Cft	280.25	392.05		
		Type C (Ratio 1: 2: 4)(Lintel)	Per/ Cft	64.69	361.90		
		Type C (Ratio 1: 2: 4)(Beam)	Per/ Cft	895.28	361.90		
		Type C (Ratio 1: 2: 4)(Slab)	Per/ Cft	844.00	361.90		
		Steel Reinforcement					
9	CH:6/9	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)(ii) Deformed bar (Grade 60)	100Kg	10,790.92	13,223.50		
10	CH:6/33(a)	Providing and laying damp proof course of cement concrete 1:2: 4(using cement, sand and shingle), including bitumen coating :- (a) with one coat of bitumen and one coat of polythene sheet ii) 2" thick (50 mm)	100 Sft	142.88	5,293.45		
11	CH:6/35(a)	Providing and laying vertical damp proof course with cement sand plaster and bitumen coating (a) with one coat of bitumen and one coat of polythene sheet ii) Ratio 1:3 b) ¾ " thick (20 mm)	100 Cft	476.25	3,424.15		
		Brick Work					

Contractor

In-charge Tender Cell, UAF

12	CH:7/-4i	Pacca brick work in foundation and plinth in:- Cement, sand mortar:-Ratio 1:6	100 Cft	912.98	17,558.45		
		GROUND FLOOR					
13	CH:7/5i	Pacca brick work in ground floor:-Ratio 1:5	100 Cft	1,485.75	19,211.40		
14	CH:7/5i	Pacca brick work in ground floor :-Ratio 1:4	100 Cft	250.03	19,734.60		
		Flooring					
15	CH:7/30	Supplying and filling sand under floor; or plugging in wells	100 Cft	668.66	1,693.90		
16	CH:10/3	Providing, laying, watering and ramming brick ballast 1½ to 2"(40 mm to 50 mm) gauge mixed with 25 % sand, for floor foundation, complete in all respects	100 Cft	669.03	4,300.30		
17	CH:10/22	2"(50 mm) thick mosaic flooring, consisting of ½ "(13 mm) mosaic topping of one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over 1½"(40 mm) thick floor of 1:2:4 cement concrete, including rubbing and polishing complete with finishing :-					
		(a) using grey cement	100 Sft	40.24	10,884.74		
		(b) using white cement	100 Sft	40.24	11,661.84		

Contractor

In-charge Tender Cell, UAF

18	CH:10/22	Mosaic dado or skirting with one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over ½"(13 mm) thick cement plaster 1:3, including rubbing and polishing, complete with finishing: ii) ½"(13 mm) thick					
		(a) using grey cement	100 Sft	9.50	10,716.15		
		(b) using white cement	100 Sft	9.50	11,234.30		
19	CH:10/15(c)	Providing and laying topping of cement concrete 1:2:4, including surface finishing and dividing in panels:- 1½"(40 mm) thick					
		Plinth Protection	100 Sft	570.00	3,848.20		
20	CH:10/42(a)	Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels					
		a) Size 2" x 3/8" (50 x 10 mm)	Per Rft.	618.29	6.60		
		Surface Rendering					
21	CH:11/10(b)	Cement plaster ratio 1:3 under soffit of RCC roof slabs only, upto 20' height. 3/8" (10 mm) thick. (ceiling plaster)	100 Sft	1,731.23	2,074.05		
22	CH:11/9(b)	Cement plaster 1:5 on internal walls upto 20' (6 m) height and 1/2" (13 mm) thick.	100 Sft	1,000.24	1,747.25		
	CH:11/9(c)	Cement plaster 1:5 on internal walls upto 20' (6 m) height and 3/4" (20 mm) thick.	100 Sft	1,000.24	2,370.10		

Contractor

In-charge Tender Cell, UAF

23	CH:11/18(b)	Cement pointing struck joints, on walls, upto 20' (6.00 m) hieght:- b) ratio 1:3	100 Sft	3,009.75	1,851.05		
		Wood Work					
24	CH:12/50	Providing and fixing 1½" (40mm) 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" (50mm x 10mm) around shutter including chromium plated fitting, iron hinges with aluminium kick plate 22 SWG on both sides & finger plate complete in all respect.	Per/Sft	35.00	363.10		
25	CH:12/58(b)	Providing and fixing ornamental wooden architrave 3" x(1½" tapered to ¼") all along the door frame complete in all respect.b)Deodar wood architrave	Per/Sft	35.00	44.95		
26	CH:12/21	Providing and fixing, approved quality mortice lock complete in aal respect	Each	1.00	551.05		
		Painting and Warnishing					
27	CH:13/31	Preparing surface and painting with emulsion paint:-3 Coats New Surface	100 Sft	3,731.72	1,153.45		
28	CH:13/32A	Providing and applying weather shield paint of approved quality on external surface of building including preparation of surface, application of primer complete in all respect:- 3 Coats New Surface	100 Sft	246.00	2,885.85		

Contractor

In-charge Tender Cell, UAF

29	CH:13/5(c)	Preparing surface and painting of doors and windows any type (including edges) 3 Coats New Surface	100 Sft	70.00	1,562.65		
		Metal Work					
30	CH:25/44	Providing and fixing windows consisting of M.S. box section frame 2"x1½", (50x40mm) leaves frame 1½"x1" (40x25mm) box section frame for glazing 3/8"x3/8" (10x10mm) using 16 SWG sheet 'U' shaped rubber supported with 1"x1/8" (25x3mm) M.S. flat for fixing 3/16" (5 mm) thick glass panes M.S. box section ½"x½" (13x13mm) of 16 SWG for fixing 24 SWG wire gauze on outer side by means of ¾"x1/8" (20x3mm) M.S. flat and screws including grill of M.S. flat ½"x1/8" (13x3mm) or ¼"x¼" (6x6mm) square bar with independent frame of ½"x½" (13x13mm) box section of 16 SWG i/c all C.P. fitting and painting 3 coats complete in all respect	Per/Sft	270.00	491.90		
31	CH:25/37	Providing and fixing 24 SWG G.I. sheet rolling shutter, consisting of steel frame of M.S. channel 2"x1¼"x1/8" (50x30x3 mm), angle iron 1½"x1½"x1/8" (40x40x3 mm), M.S. plate 1'x1'x1/8" (300x300x3 mm), G.I. pipe 1½" (37mm) dia, springs 2' (600 mm) centre to centre, rollers, 24 SWG G.I. covering 1 ft. x 1 ft. (300x300 mm), handles, holdfast, and painting three coats, complete in all respects.	Per/Sft	423.32	260.30		
		Roofing & Water Proofing					

Contractor

In-charge Tender Cell, UAF

32	CH:9/45a	Providing and Laying Insulation material of Extruded Polystyrene XPS in Rigid Insulation / Foam Board on roof or walls, Density 32-38Kg/M, compressive strength 250-400 kpa, R-value 5 per inch thickness and water absorption (1% by volume, cell structure closed cell) i/c cutting and placing in position complete in all respect. a) 1" thick	100 Sft	1,665.00	5,688.00		
33	CH:9/5	Single layer of tiles 9"x4½"x1½" (225x113x40 mm) laid over 4"(100 mm) earth and 1" (25 mm) mud plaster without Bhoosa, grouted with cement sand 1:3 on top of RCC roof slab, provided with 34 lbs. per %Sft. or 1.72 Kg/Sq.m bitumen coating sand blinded.i/c P/L polythene sheet 500 gauge	100 Sft	1,665.00	6520.5		
34	CH:9/15	Construction of Khuras on roof 2' x 2' x 6"	Each	3.00	497.55		
35	CH:9/16	Bottom Khuras of brick masonry in cement mortar 1:6,4'x2'x4½" (1200x600x113 mm) over 3" (75 mm) cement concrete 1:4:8.	Each	3.00	836.2		
	Total "A"(Schedule items)						
		NON SCHEDULE ITEMS-B					
		Flooring					
1	N.S	Providing and laying Porcelain tiles flooring (full body) 16"x16" laid over 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement and matching pigment i/c cutting charges complete in all respects as approved & Directed by the Engineer Incharge. (Master, DWV series Polished (Dark color) class SB	Per/Sft	1,500.00	227.00		
		Skirting					

Contractor

In-charge Tender Cell, UAF

2	N.S	Providing and laying Porcelain tiles flooring (full body) 16"x4"x3/8" laid over 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement and matching pigment i/c cutting charges complete in all respects as approved & Directed by the Engineer Incharge. (Master, DWV series Polished (Dark color) class SB Dado/ Skirting	Per/Sft	53.28	240.00		
		Dado					
		Entrance Steps / Podium					
3	N.S	Providing and fixing 3/4" thick pre-polished Marble Slab Granite uniform texture full width area above 2 sft laid over 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement & matching pigment i/c beveling charges on exposed edges complete in all respect as approved / directed by the Engineer Incharge	Per/Sft	45.00	613.00		
		Miscellenious					
4	Approved N.SC-0006	Providing and Fixing Gypsum boad 2'x2' flase ceiling make DFB with 7mm thiness with aluminum foil on the back of tile fixed on imported CKM Tees and Fittings and supported with local angle with G.I 16 Guage at appropriate distance i/c cost of hooks, clamps, carriage and labour charges at any height etc complete in all repect and as per satesfaction of Engineer Incharge (Library)	Per/Sft	1,500.00	63.00		

Contractor

In-charge Tender Cell, UAF

5	Approved N.S	Providing and Fixing of M.S steel chowkats full jam of 10-1/2"x 2" single rebate of M.S 16 SWG with up to 4 Nos 5" long C.P hinges screwed / welded M.S flat iron 2" x 1/8" in back of hinges welded inside i/c 3/8" dia bars 2 Nos bottom with 6 NOS 6" long hold fast angle iron 1.5"x1.5"x3/16" also back fill with P.C.C 1:2:4 i/c painting with red oxide and bitumen coating on surface touching with concrete complete in all respect.	Per/Sft	35.00	330.00		
6	N.S	Supply, provide and fix in position uPVC rain water down pipe lines conforming to ISO 3633:1991 and BS 3505 1968 (wall thickness 3.2mm) including proper joints complete in all respects, and system leak-free:					
		4" dia	Rft	54.00	250		
7	N.S	Provide and fix uPVC plain bends with grating (as rain water inlets at roof), water tight connection leak-free:					
		4" dia	Each	3.00	1,400		
8	N.S	Provide and fix uPVC shoe bends (as rain water outlets), water tight connection leak-free					
		4" dia	Each	3.00	1,000		
		Total "B"(Non Schedule items)					
		Net Total (A+B)					

Contractor

In-charge Tender Cell, UAF

**ESTABLISHMENT OF SUB-CAMPUS OF UNIVERSITY OF AGRICULTURE FAISALABAD,
AT DEPALPUR - OKARA (HEC FUNDED)**

STAFF LIBRARY

BILL OF QUANTITIES

ELECTRICAL WORKS

Sr No.	REF. Nos CH/ITEM	Item. No.	Description	Unit	Estimated Quantity	Rate (Rs)	Rate Quoted by The Contractor	Amount (Rs)
MRS, 2nd BI-ANNUAL-2018 (1st July-2018 to 31st December-2018) DISTRICT OKARA								
A) Schedule Items								
1		1.1	<u>Light Circuits.</u>					
			Supply, installation and commissioning of light circuit wiring, to be wired with 3x2.5mm sq. (1P+1N+1CPC) PVC insulated 300/500 V grade wire, manufactured by M/s. Pakistan Cables Ltd, Pioneer Cables, Newage Cables in and including cost of 3/4" dia. heavy duty PVC conduit make Beta, Shavyl or Premium, recessed in , walls, Roof slab, or on surface or above false ceiling or as required as per site conditions, all PVC conduit accessories, pull boxes, steel pull wires , complete in all respects. Each circuit shall have independent CPC. Maximum wiring of 2 light circuits can be pulled through 1" dia. PVC conduit. (CK=2)					
	[Ref: Item 10 (a-iii)/24]]		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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1 No. 1x 2.5 mm (7/0.029")	Rft	360	15.95		

Contractor

In-charge Tender Cell, UAF

	[Ref: Item 3(iii)/24]		Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 25mm	Rft	120	47.85		
		1.2	<u>1st Light Point Controlled By One Switch</u>					
			Wiring of first light point controlled by one switch and wired with 2x1.5 mm sq.(P+N) PVC insulated wires 300/500 V grade, manufactured by M/s. Pakistan Cables Ltd, Pioneer Cables, Newage Cables in and including cost of 3/4" dia. heavy duty PVC conduit make Beta, Shavyl or Premium, recessed in wall, columns slabs or above light carrier all PVC conduit accessories, 3" high PVC junction boxes, pull boxes, steel pull wires, PVC flexible conduit from ceiling junction box to light fixture with brass chuck nut including 1.5mm sq. PVC insulated wire of colour green as CPC, M.S. sheet steel switch box 16 SWG with earth terminal and 2 coats of enameled paint, M.S. box shall be of the same size as that of 1, 2 or 3 gang flush type plate switches, excluding cost of gang type light switches 10 amps (CK=16)					
	[Ref: Item 10 (a-i)/24]		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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1 No. 1x 1.5 mm (3/0.029")	Rft	1200	11.7		
	[Ref: Item 3(ii)/24]		Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 20mm	Rft	600	41.45		
		1.3	<u>Point- Points Wiring</u>					

Contractor

In-charge Tender Cell, UAF

			Same as Item No. 1.2 but Loop wiring of a light point from first light point with 2x1.5 mm sq.(P+N) PVC insulated wires 300/500 V grade, manufactured by M/s. Pakistan Cables Ltd, Pioneer Cables, Newage Cables in and including cost of 3/4" dia. heavy duty PVC conduit make Beta, Shavyl or Premium recessed in wall, columns slabs or above light carrier all PVC conduit accessories, 3" high PVC junction boxes, pull boxes, steel pull wires, PVC flexible conduit from ceiling junction box to light fixture with brass chuck nut including 1.5mm sq. PVC insulated wire of colour green as CPC, M.S. sheet steel switch box 16 SWG with earth terminal and 2 coats of enameled paint.(CK=144)					
	[Ref: Item 10 (a-i)/24]		Supply and erection of single core PVC insulated copper conductor cables in prelaidd PVC pipe/M.S conduit G.I pipe\wooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only) i) Cost of 1 No. 1x 1.5 mm (3/0.029")	Rft	1350	11.7		
	[Ref: Item 3(ii)/24]		Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 20mm PVC pipe	Rft	675	41.45		
		1.4	<u>1- 13 Amps Switch Socket</u>					

Contractor

In-charge Tender Cell, UAF

			Wiring and fixing of one 13A light plug sockets from DB to point with 2x1 core 4 mm sq. + 1x2.5mm sq. CPC, PVC wires 300/500 Volt grade, M/s. Pakistan Cables Ltd, Pioneer Cables, Newage Cables in and including cost of 1" dia. heavy duty PVC conduit, make Beta, Shavyl or Premium recessed in walls, floor, above false ceiling or as required as per site conditions, all PVC conduit make Beta accessories, pull boxes, steel pull wires, M.S. box shall be made of 16 SWG sheet steel with earth terminal having 2 coats of antirust paint, M.S. box shall be of the same size as that of 1-13Amps switch socket, including cost of 13 Amps 3 pin combined switch socket make BUSH Pakistan. Wiring shall be done directly from the MCB installed in the respective DB without any claim of circuit. (CK=16)					
	[Ref: Item 10 (a-iv)/24]		Supply and erection of single core PVC insulated copper conductor cables in prelaidd PVC pipe/M.S conduit G.I pipe\wooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x4 mm ² (7/0.036")	Rft	360	22.95		
	[Ref: Item 10 (a-iii)/24]		Supply and erection of single core PVC insulated copper conductor cables in prelaidd PVC pipe/M.S conduit G.I pipe\wooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only) ii) Cost of 1x2.5 mm ² (7/0.029")	Rft	180	15.95		
	[Ref: Item 3(ii)/24]		Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials iii) Cost of 25 mm PVC pipe	Rft	180	47.85		
		1.5	<u>Loop-Loop- 13 Amps Switch Socket</u>					

Contractor

In-charge Tender Cell, UAF

			Same as above item No. 1.4 but loop wiring of 13A light plug socket outlet from DB to point with 2x1 core 4 mm sq. + 1x2.5mm sq. CPC, PVC wires 300/500 Volt grade, make M/s. Pakistan Cables Ltd, Pioneer Cables, Newage Cables in and including cost of 1" dia. heavy duty PVC conduit, make Beta, Shavyl or Premium recessed in walls, floor, above false ceiling or as required as per site conditions, all PVC conduit make Beta accessories, pull boxes, steel pull wires, M.S. box shall be made of 16 SWG sheet steel with earth terminal having 2 coats of antirust paint, M.S. box shall be of the same size as that of 1-13Amps switch socket, including cost of 13 Amps 3 pin combined switch socket make BUSH Pakistan. Wiring shall be done directly from the MCB installed in the respective DB without any claim of circuit.					
	[Ref: Item 10 (a-iv)/24]		Supply and erection of single core PVC insulated copper conductor cables in prelaidd PVC pipe/M.S conduit G.I pipe\wooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x4 mm ² (7/0.036")	Rft	420	22.95		
	[Ref: Item 10 (a-iii)/24]		Supply and erection of single core PVC insulated copper conductor cables in prelaidd PVC pipe/M.S conduit G.I pipe\wooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only) ii) Cost of 1x2.5 mm ² (7/0.029")	Rft	210	15.95		
	[Ref: Item 3(ii)/24]		Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials iii) Cost of 25 mm PVC pipe	Rft	210	47.85		
		1.6	<u>1 x 3 Pin 20 Amps Switch Socket</u>					

Contractor

In-charge Tender Cell, UAF

		Wiring and fixing of one 20A power sockets outlet with 2x 4mm ² (P+N) & 1x2.5mm ² as CPC single core cables from DB to point combined switch socket outlet ceramic Base with Rocker Switch (Shuttered) Silver Point, Neon Light Heavy duty 2P+E, 20A,250V. PVC wires 300/500 Volt grade, M/s. Pakistan Cables Ltd, Pioneer Cables, Newage Cables in and including cost of 1" dia. heavy duty PVC conduit, make Beta, Popular recessed in walls, floor, above false ceiling or as required as per site conditions, all PVC conduit make Beta, Shavyl or Premium accessories, pull boxes, steel pull wires, M.S. box shall be made of 16 SWG sheet steel with earth terminal having 2 coats of antirust paint, M.S. box shall be of the same size as that of 1-20Amps switch socket, including cost of 15 Amps 3 pin combined switch socket make BUSH Pakistan. Wiring shall be done directly from the MCB installed in the respective DB without any claim of circuit.(CK=2)					
	[Ref: Item 10 (a-iv)/24]	Supply and erection of single core PVC insulated copper conductor cables in prelaidd PVC pipe/M.S conduit G.I pipe\wooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x4 mm ² (7/0.036")	Rft	900	22.95		
	[Ref: Item 10 (a-iii)/24]	Supply and erection of single core PVC insulated copper conductor cables in prelaidd PVC pipe/M.S conduit G.I pipe\wooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x2.5 mm (7/0.029")	Rft	450	15.95		
	[Ref: Item 3(ii)/24]	Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 25 mm	Rft	450	47.85		

Contractor

In-charge Tender Cell, UAF

		1.8	Fan Conforming to same specifications as mentioned above for Item No. 1.2. but wiring of ceiling fan points, including cost of MS hook box circular type having MS hook 16 mm (5/8") dia make Unique, Beta to be casted in RCC slab, MS switch board of appropriate size to accommodate dimmer, complete in all respects, including dimmer provided by the Fan manufacturer.(CK=88)					
	[Ref : Item 49/24]	i	Supply and erection of 3/8" (10 mm) dia M.S. bar fan hook placed at the time of casting of slab.	Each	9	39.45		
	[Ref : Item 14(ii)/24]	ii	Back Box (7"x4")	Each	9	221.90		
	[Ref: Item 10 (a-i)/24]	iii	Supply and erection of single core PVC insulated copper conductor cables in prelaidd PVC pipe/M.S conduit G.I pipe\wooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 1.5 mm (3/0.029")	Rft	855	11.7		
	[Ref: Item 3(ii)/24]	iv	Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 20mm	Rft	427.5	41.45		
		3.2	<u>PVC PIPE FOR TELEPHONE SYSTEM</u>					
			Supply and erection of PVC pipe for wiring recessed in walls, including inspection boxes, pull boxes, hooks, cutting harries, and repairing surface, etc., complete with all specials.					
	3-(iii)/24	a	25 mm i/d	Rft	550	47.85		
		3.3	<u>PVC PIPE FOR COMPUTER SYSTEM</u>					
			Supply and erection of PVC pipe for wiring recessed in walls, including inspection boxes, pull boxes, hooks, cutting harries, and repairing surface, etc., complete with all specials.					

Contractor

In-charge Tender Cell, UAF

	3-(iii)/24	a	25 mm i/d	Rft	500	47.85		
			Total A-(Schedule Items)=					
B) Non-Schedule Items.								
1			Switch & Sockets.					
	Approved NS	1.1	i) Providing and Installation of PVC Sheet Back Box 7.5 cm x 7.5 cm (6"x3") (Non Metallic) China Made	Each	6	78.00		
	Approved NS	1.2	i) Providing and Installation of PVC Sheet Back Box 7.5 cm x 7.5 cm (3"x3") (Non Metallic) China Made	Each	13	120.00		
	E-1052	1.7	Supply & fitting of 10A, 6 Gang 1 Way Switch Clipsal Made Bush / Orange made, As per approval of Engineer Incharge.	Each	6	989.00		
	E-1057	1.10	Supply & fitting of 13A switch socket Clipsal Made	Each	8	561.00		
	E-1059	1.14	Supply & fitting of 15A switch socket Clipsal Made	Each	5	610.00		
2			<u>Light Fittings And Fixtures</u>					
		2.1	<u>LIGHTS</u>					
	E-1018	i	Supply & fitting of LED Down Light 18 Watts Surface mounted DN027C LED CW 6500K Philips Made	Each	43	2703		
	E-1054	2.2	Supply & fitting of Fan speed controller switched Clipsal Made	Each	9	1242.00		
	E-1045		Supply & fitting of ceiling Fan 56" copper (Energy Efficient Pak Fan Deluxe Model as approved by PEECA)	Each	9	4498		
	Approved NS		Providing and Installation of PVC Fan Box Including Rod Popular Made.	Each	9	150		
5			<u>Telephone System</u>					
		5.2	<u>Telephone Outlet</u>					

Contractor

In-charge Tender Cell, UAF

	Approved N.S		Supply / Erection of Bush made data single socket (RJ-11) including 16 SWG back box of 3"x3" size complete in all respect.	Each	2	778.48		
		5.3	<u>Telephone Cables</u>					
			Providing & laying multi pairs (Twisted) PVC insulated / underground cable of best quality (siemens, Germany, or Best imported as per approved sample) in pre-laid PVC recessed conduit or fixed cable duct/ Tray as per satisfaction of the Electrical Engineer.					
	Approved N.S	a	4-5 Pair Cable CAT-6/UG/PVC (0.6 mm sq) (From DP to each Room)	Rft	180	21.66		
6			<u>Computer System</u>					
		6.2	<u>Computer Outlet</u>					
	Approved N.S		Supply / Erection of Bush made data single socket (RJ-45) including 16 SWG back box of 3"x3" size complete in all respect.	Each	2	1222.47		
		6.3	<u>Computer Cables</u>					
			Wiring for each data/computer point included cost of 1 no. 4 pair CAT- 6 (UTP) cable tinned copper conductor PVC insulated PVC sheathed manufactured by Krone, 3M, Clipsal to support data rates upto1GBits/s. or more than 1 GBits/s with connections at both ends, designation labels					
	Approved N.S	a	1 no. 4 pair CAT- 6 (UTP) cable tinned copper conductor PVC insulated PVC sheathed.	Rft	180	22		
		6.4	<u>Junction Box</u>					
	E-1079		Supply, installation and commissioning of junction box for incoming and out going Computer cables,all necessary accessories complete in all respects.	Sft	1	2,100		
			Total B(Non-Schedule Items)=					
			Total (A+B)=					

Contractor

In-charge Tender Cell, UAF

**ESTABLISHMENT OF SUB-CAMPUS OF UNIVERSITY OF AGRICULTURE
FAISALABAD, AT DEPALPUR - OKARA (HEC FUNDED)**

MOSQUE

BILL OF QUANTITIES

CIVIL WORKS

Item No.	MRS ITEMS NO	Description of Items	Unit	Qty	Rate (Rs.)	Rate Quoted by The Contractor	Amount (Rs.)
MRS, 2nd BI-ANNUAL-2018 (1st July-2018 to 31st December-2018) DISTRICT OKARA							
		SCHEDULE ITEMS-A					
		Earth Work					
1	CH:3/47(a)	Jungle clearance and removing within 100 ft. (30 m).a) light	1000 Sft	3,100.00	152.35		
2	CH:3/21(b)	Excavation in foundation of building and other sructures, including debelling,dressing,refilling around structure with excavated eart,watering and ramming lead upto one chain 100ft and lift upto 5 ft.in ordinary soil.	1000 Cft	1,479.75	6,434.20		
3	CH:3/15(i)(ii)	Filling, watering and ramming earth under floors:					
		i) with surplus earth from foundation, etc.	1000 Cft	986.50	3,083.00		
		ii) with new earth excavated from outside,lead upto 5 Mile.(as per actual borrow pit lead)	1000 Cft	7,181.67	12,299.60		

Contractor

In-charge Tender Cell, UAF

		Anti-Termite					
4	CH:25/42	Spraying anti-termite liquid mixed with water in the ratio of 1:40.	100 Sft	2,331.25	224.80		
5	CH:6/5	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:-					
		(i) Ratio 1: 4: 8	100 Cft	655.50	13,002.75		
		Plain and Reinforcement Concrete					
6	CH:6/5	Cement concrete plain including placing, compacting , finishing and curing complete (including screening and washing of stone aggregate)					
6.1		(i) Ratio 1: 4: 8 (Under Footing)	100 Cft	7.50	17,919.25		
6.2		(f) Ratio 1: 2: 4 (Under Floor)	100 Cft	92.95	22,832.05		
	CH:6/6	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.):-					
7	(a)(ii)	Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and other structural members other than those mentioned in i) above not requiring form work (i.e. horizontal shuttering) complete in all					

Contractor

In-charge Tender Cell, UAF

		respects:-					
		(3) Type C (Ratio 1: 2: 4)(Footings)	Per/ Cft	53.75	266.70		
8	(a)(i)	Reinforced cement concrete slabs, beams, girders, Lintels and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects;-					
		GROUND FLOOR					
		Type B (Ratio 1: 1½: 3)(Column)	Per/ Cft	17.16	392.05		
		Type C (Ratio 1: 2: 4)(Lintel)	Per/ Cft	73.50	361.90		
		Type C (Ratio 1: 2: 4)(Beam)	Per/ Cft	139.88	361.90		
		Type C (Ratio 1: 2: 4)(Slab)	Per/ Cft	790.00	361.90		
		Steel Reinforcement					
9	CH:6/9	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)(ii) Deformed bar (Grade 60)	100Kg	3,238.34	13,223.50		

Contractor

In-charge Tender Cell, UAF

10	CH:6/33(a)	Providing and laying damp proof course of cement concrete 1:2: 4(using cement, sand and shingle), including bitumen coating :- (a) with one coat of bitumen and one coat of polythene sheet ii) 2" thick (50 mm)	100 Sft	273.19	5,293.45		
11	CH:6/35(a)	Providing and laying vertical damp proof course with cement sand plaster and bitumen coating (a) with one coat of bitumen and one coat of polythene sheet ii) Ratio 1:3 b) ¾ " thick (20 mm)	100 Cft	522.50	3,424.15		
		Brick Work					
12	CH:7/-4i	Pacca brick work in foundation and plinth in:- Cement, sand mortar:-Ratio 1:6	100 Cft	1,436.27	17,558.45		
		GROUND FLOOR					
13	CH:7/5i	Pacca brick work in ground floor:-Ratio 1:5	100 Cft	2,949.75	19,211.40		
14	CH:7/5i	Pacca brick work in ground floor :-Ratio 1:4	100 Cft	368.06	19,734.60		
		Flooring					
15	CH:7/30	Supplying and filling sand under floor; or plugging in wells	100 Cft	893.80	1,693.90		
16	CH:10/3	Providing, laying, watering and ramming brick ballast 1½ to 2"(40 mm to 50 mm) gauge mixed with 25 % sand, for floor foundation, complete in all respects	100 Cft	893.80	4,300.30		

Contractor

In-charge Tender Cell, UAF

17	CH:10/22	2"(50 mm) thick mosaic flooring, consisting of ½ "(13 mm) mosaic topping of one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over 1½"(40 mm) thick floor of 1:2:4 cement concrete, including rubbing and polishing complete with finishing :-					
		(a) using grey cement	100 Sft	1,094.55	10,884.74		
		(b) using white cement	100 Sft	1,094.55	11,661.84		
18	CH:10/22	Mosaic dado or skirting with one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over ½"(13 mm) thick cement plaster 1:3, including rubbing and polishing, complete with finishing: ii) ½"(13 mm) thick					
		(a) using grey cement	100 Sft	97.79	10,716.15		
		(b) using white cement	100 Sft	97.79	11,234.30		
19	CH:10/15(c)	Providing and laying topping of cement concrete 1:2:4, including surface finishing and dividing in panels:- 1½"(40 mm) thick					
		Plinth Protection	100 Sft	660.00	3,848.20		
20	CH:10/42(a)	Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels					

Contractor

In-charge Tender Cell, UAF

		a) Size 2" x 3/8" (50 x 10 mm)	Per Rft.	1,973.46	6.60		
		Surface Rendering					
21	CH:11/10(b)	Cement plaster ratio 1:3 under soffit of RCC roof slabs only, upto 20' height. 3/8" (10 mm) thick. (ceiling plaster)	100 Sft	2,189.09	2,074.05		
22	CH:11/9(b)	Cement plaster 1:5 on internal walls upto 20' (6 m) height and 1/2" (13 mm) thick.	100 Sft	2,347.50	1,747.25		
	CH:11/9(c)	Cement plaster 1:5 on internal walls upto 20' (6 m) height and 3/4" (20 mm) thick.	100 Sft	2,347.50	2,370.10		
23	CH:11/18(b)	Cement pointing struck joints, on walls, upto 20' (6.00 m) height:- b) ratio 1:3	100 Sft	4,114.00	1,851.05		
		Wood Work					
24	CH:12/7(a)	First class deodar wood wrought joinery in doors and windows, etc. panelled, or panelled or glazed, or fully glazed, fixed in position, including chowkat, holdfast, hinges, tower bolts, chocks, rubber stop, cleats/G.I. clamps, handles and chord with hooks, etc. complete (excluding sliding bolt or lock):- a) 2" thick (50 mm)	Per/Sft	59.50	1,198.10		

Contractor

In-charge Tender Cell, UAF

25	CH:12/50	Providing and fixing 1½" (40mm) 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" (50mm x 10mm) around shutter including chromium plated fitting, iron hinges with aluminium kick plate 22 SWG on both sides & finger plate complete in all respect.	Per/Sft	31.50	363.10		
26	CH:12/58(b)	Providing and fixing ornamental wooden architrave 3" x(1½" tapered to ¼") all along the door frame complete in all respect.b)Deodar wood architrave	Per/Sft	94.50	44.95		
27	CH:12/21	Providing and fixing, approved quality mortice lock complete in aal respect	Each	2.00	551.05		
		Painting and Warnishing					
28	CH:13/31	Preparing surface and painting with emulsion paint:-3 Coats New Surface	100 Sft	6,884.09	1,153.45		
29	CH:13/32A	Providing and applying weather shield paint of approved quality on external surface of building including preparation of surface, application of primer complete in all respect:- 3 Coats New Surface	100 Sft	136.00	2,885.85		
30	CH:13/7	French polishing new surface	100 Sft	119.00	2,726.70		
31	CH:13/5(c)	Preparing surface and painting of doors and windows any type (including edges) 3 Coats New Surface	100 Sft	63.00	1,562.65		
		Metal Work					

Contractor

In-charge Tender Cell, UAF

32	CH:25/44	Providing and fixing windows consisting of M.S. box section frame 2"x1½", (50x40mm) leaves frame 1½"x1" (40x25mm) box section frame for glazing 3/8"x3/8" (10x10mm) using 16 SWG sheet 'U' shaped rubber supported with 1"x1/8" (25x3mm) M.S. flat for fixing 3/16" (5 mm) thick glass panes M.S. box section ½"x½" (13x13mm) of 16 SWG for fixing 24 SWG wire gauze on outer side by means of ¾"x1/8" (20x3mm) M.S. flat and screws including grill of M.S. flat ½"x1/8" (13x3mm) or ¼"x¼" (6x6mm) square bar with independent frame of ½"x½" (13x13mm) box section of 16 SWG i/c all C.P. fitting and painting 3 coats complete in all respect	Per/Sft	190.00	491.90		
33	CH:25/51	Providing and fixing all types of partly fixed and partly openable glazed anodised bronze colour aluminium doors, using delux 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.	Per/Sft	314.50	543.30		
		Roofing & Water Proofing					

Contractor

In-charge Tender Cell, UAF

34	CH:9/45a	Providing and Laying Insulation material of Extruded Polystyrene XPS in Rigid Insulation / Foam Board on roof or walls, Density 32-38Kg/M, compressive strength 250-400 kpa, R-value 5 per inch thickness and water absorption (1% by volume, cell structure closed cell) i/c cutting and placing in position complete in all respect. a) 1" thick	100 Sft	1,580.00	5,688.00		
35	CH:9/5	Single layer of tiles 9"x4½"x1½" (225x113x40 mm) laid over 4"(100 mm) earth and 1" (25 mm) mud plaster without Bhoosa, grouted with cement sand 1:3 on top of RCC roof slab, provided with 34 lbs. per %Sft. or 1.72 Kg/Sq.m bitumen coating sand blinded.i/c P/L polythene sheet 500 gauge	100 Sft	1,580.00	6520.5		
36	CH:9/15	Construction of Khuras on roof 2' x 2' x 6"	Each	3.00	497.55		
37	CH:9/16	Bottom Khuras of brick masonry in cement mortar 1:6,4'x2'x4½" (1200x600x113 mm) over 3" (75 mm) cement concrete 1:4:8.	Each	3.00	836.2		
	Total "A"(Schedule items)						
		NON SCHEDULE ITEMS-B					
		Flooring					

Contractor

In-charge Tender Cell, UAF

1	N.S	Providing and laying CERAMIC FLOOR TILES (PREMIUM) Size 12x12(CFT MATT) laid over 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement and matching pigment i/c cutting charges complete in all respects as approved & directed by the Engineer Incharge. Flooring. STILE TILES (Shabbir Tiles)	Per/Sft	248.59	158		
		Dado					
2	N.S	Providing and laying CERAMIC WALL TILES (PREMIUM) size 12"x18" laid over 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement and matching pigment i/c cutting charges complete in all respects as approved & directed by the Engineer Incharge.STILE TILES (Shabbir Tiles) Dado/ Skirting	Per/Sft	362.00	171.00		
		Entrance Steps / Podium					
3	N.S	Providing and fixing 3/4" thick pre-polished Marble Slab Granite uniform texture full width area above 2 sft laid over 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement & matching pigment i/c beveling charges on exposed edges complete in all respect as approved / directed by the Engineer Incharge	Per/Sft	63.00	613.00		

Contractor

In-charge Tender Cell, UAF

4	Approved N.S	Providing and Fixing M.S steel chowkats full jam of 5-1/2"x 2" single rebate of M.S 16 SWG with up to 4 Nos 5" long C.P hinges screwed / welded M.S flat iron 2" x 1/8" in back of hinges welded inside i/c 3/8" dia bars 2 Nos bottom with 6 NOS 6" long hold fast angle iron 1.5"x1.5"x3/16" also back fill with P.C.C 1:2:4 i/c painting with red oxide and bitumen coating on surface touching with concrete complete in all respect.	Per/Sft	35.00	291.00		
5	N.S	Supply, provide and fix in position uPVC rain water down pipe lines conforming to ISO 3633:1991 and BS 3505 1968 (wall thickness 3.2mm) including proper joints complete in all respects, and system leak-free:					
		4" dia	Rft	54.00	250		
6	N.S	Provide and fix uPVC plain bends with grating (as rain water inlets at roof), water tight connection leak-free:					
		4" dia	Each	3.00	1,400		
7	N.S	Provide and fix uPVC shoe bends (as rain water outlets), water tight connection leak-free					
		4" dia	Each	3.00	1,000		
		Total "B"(Non Schedule items)					
		Net Total (A+B)					

Contractor

In-charge Tender Cell, UAF

ESTABLISHMENT OF SUB-CAMPUS OF UNIVERSITY OF AGRICULTURE FAISALABAD, AT DEPALPUR - OKARA (HEC FUNDED)

MOSQUE

BILL OF QUANTITIES

PUBLIC HEALTH WORKS

Sr #	MRS	Description	Unit	Qty.	Unit Rate (Rs)	Rate Quoted by The Contractor	Amount (Rs)
MRS, 2nd BI-ANNUAL-2018 (1st July-2018 to 31st December-2018) DISTRICT OKARA							
		<u>SCHEDULE ITEMS</u>					
1	19-1-i	Providing and fitting glazed earthen ware water closet European type, excluding seat and cover:-	Each	1	2,191.50		
		-					
		<u>G.I Piping</u>					
2	23-22-iii	Providing, laying, cutting, jointing, testing and disinfecting G.I. pipeline in trenches, (Cost of sockets, tees, elbows, bends, valves, crosses, unions and plugs, etc. is included in the rates) with socket joints, using G.I pipes of B.S.S. 1387-1967 complete in all respects, with specials and valves. Heavy Duty					
		a) ¾" i/d (20 mm) 3.25mm thick	Rft	30	141.15		
		<u>SEWERAGE</u>					

Contractor

In-charge Tender Cell, UAF

3	21-1	Providing and laying RCC pipe, moulded with cement concrete 1:1.5:3, with spigot socket or collar joint, etc. including cost of reinforcement, confirming to B.S. 5911: Part I: 1981, class "L" including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing, cutting pipes where necessary, finishing and testing, etc. complete.					
		(i) 150 mm (6:) i/d	Rft	10	190.50		
		(ii) 225 mm (9:) i/d	Rft	0	343.20		
4	23-27	Providing, laying, cutting, jointing, testing and disinfecting. pipes of B.S.S. with 'D' 2 and valves is not included in the Class working pressure complete in all respects:-					
		a) 2" i/d (75 mm)	Rft	94	79.95		
		b) 3" i/d (75 mm)	Rft	138	169.00		
		c) 4" i/d (110 mm)	Rft	52	281.60		
5	21-17	Providing and fixing 6" thick RCC manhole cover with 3"x3"x1/4" angle iron frame, 22" i/d as per standard drawing STD/PD no. 7 of 1977, complete in all respects.	Per set	1	4,729.90		
Total "A"(Schedule items)							
		<u>NON SCHEDULE ITEMS</u>					
1	PH-0018	P/F OF WATER CLOSET ORRISA PATTERN FULL SIZE 3 star Made	Nos.	1	2,850		
2	PH-0017	P/F OF FLUSHING CISTERN. 3 Star Made	Nos.	2	3,300		
3	PH-0019	P/F OF VANITY COUNTER BASIN INCLUDING COST OF FITTINGS. 3 Star Made	Nos.	2	4,340		

Contractor

In-charge Tender Cell, UAF

4	PH-0008	P/F OF BASIN MIXER (801) 1/2" DIA Faisal Made	Nos.	14	4,750		
5	PH-0001	P/F OF BIB COCK 1/2" DIA. (005) Master Made	Nos.	2	1,145		
6	PH-0004	P/F OF TEE STOP COCK (1404) 1/2" DIA. Faisal Made	Nos.	6	1,232		
7	PH-0022	P/F OF SOAP Dish 2007). Master Made	Nos.	6	525		
8	PH-0022	Providing and fixing toilet paper holder heavy duty master made with fitting material.	Nos.	2	1,200		
9	PH-0021	P/F OF TOWEL RAIL WITH BRACKETS CHROMIUM PLATED (5302). Faisal Made	Nos.	2	920		
10	PH-0115	Making Sewerage Connection To Existing Manhole Of Main Sewerage Pipe Line Including Cost Of Plugging, Dewatering, De-Silting, Making Hole In Wall Repairing And Restoration Etc Complete In Working Condition	Job	1	1,200		
11	PH-0014	P/F OF MUSLIM SHOWER (1406). Faisal Made	Nos.	2	867		
12		PPR PIPE					
	PH-0025	P/F OF PPRC PIPE 25MM DIA COMPLETE WITH ALL RESPECT. Dadex Made	60	Rft	135		

Contractor

In-charge Tender Cell, UAF

	PH-0027	P/F OF PPRC PIPE 32MM DIA COMPLETE WITH ALL RESPECT. Dadex Made	35	Rft	145		
	PH-0031	P/F OF PPRC PIPE 50MM DIA COMPLETE WITH ALL RESPECT. Dadex Made	150	Rft	340		
13		Valves					
		Providing and installing valves of following nominal dia,					
	PH-0111	P/F OF H&LE VALVE 1". Faisal Made	1	Nos.	900		
	PH-0113	P/F OF GATE VALVE 2" DIA. Kitz Made	1	Nos.	6,300		
14		Vent Cowel					
	PH-0095	P/F OF NIKASI VENT COWL 110MM.DADEX MADE:					
		4" i.d	2	Nos	190		
15		Multifloor Trap					
	PH-0020	P/F OF NIKASI P-TARP 110MM. DADEX MADE	10	Nos.	1,700		
Total"B" From NS LIST							
16	NS	Clean Out					
		Providing and fixing clean out with threads ferule fixed in pipe with the help of solvent, as shown on drawing, complete in all respects as per specifications and drawings.					
		3" i.d	1	Nos.	4,450		
		4" i.d	2	Nos.	5,450		
17	NS	Gully Trap					
		Providing and making Gully trap 1'-0"x1'-0" internal size	1	Nos.	15,000		

Contractor

In-charge Tender Cell, UAF

		including 9" thick brick masonry (1:4), 1/2" th. Plastering (1:3) i/side, benching with PCC 1:2:4 4" th. with cement finish, including steel grating cover, chamber 6" dia RCC Pipe and connection with manhole. complete in all respect as per specifications, drawings & Engineer in charge.					
18	NS	Manhole					
		Providing and constructing 2'x2' manhole with brick work including excavation, backfilling, RCC work PCC 1:2:4 cambering, plastering in 1:4 inside & outside, water proofing etc., upto 6' depth and size including ladder top slab, 18" heavy duty C.I. Manhole cover with frame "ALPINE INDUSTRIAL CON", "CME", "NPC SUPER" as shown on the drawings, complete in all respect as per specifications and drawings.	1	Nos.	25,000		
19	NS	Khurra / R.W.C.B					
		Providing and making top khurra/R.W.C.B using 3" thick plain cement concrete 1:2:4 matching with roof tiles with steel trowel finishing at desired level including curing, finishing, complete in all respect as per specifications and drawings.					
		i) 2'x2'.	1	Nos.	1,500		
Total "C"(Non Schedule items)							
Total (A+B+C)							

Contractor

In-charge Tender Cell, UAF

**ESTABLISHMENT OF SUB-CAMPUS OF UNIVERSITY OF AGRICULTURE
FAISALABAD, AT DEPALPUR - OKARA (HEC FUNDED)**

MOSQUE

BILL OF QUANTITIES

ELECTRICAL WORKS

Sr No.	REF. Nos CH/ITEM	Item. No.	Description	Unit	Estimated Quantity	Rate (Rs)	Rate Quoted by The Contractor	Amount (Rs)
MRS, 2nd BI-ANNUAL-2018 (1st July-2018 to 31st December-2018) DISTRICT OKARA								
A) Schedule Items								
1		1.1	<u>Light Circuits.</u>					
			Supply, installation and commissioning of light circuit wiring, to be wired with 3x2.5mm sq. (1P+1N+1CPC) PVC insulated 300/500 V grade wire, manufactured by M/s. Pakistan Cables Ltd, Pioneer Cables, Newage Cables in and including cost of 3/4" dia. heavy duty PVC conduit make Beta, Shavyl or Premium, recessed in , walls, Roof slab, or on surface or above false ceiling or as required as per site conditions, all PVC conduit accessories, pull boxes, steel pull wires , complete in all respects. Each circuit shall have independent CPC. Maximum wiring of 2 light circuits can be pulled through 1" dia. PVC conduit. (CK=16)					

Contractor

In-charge Tender Cell, UAF

	[Ref: Item 10 (a-iii)/24]]		Supply and erection of single core PVC insulated copper conductor cables in prelaidd PVC pipe/M.S conduit G.I pipe\wooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only) i) Cost of 1 No. 1x 2.5 mm (7/0.029")	Rft	540	15.95		
	[Ref: Item 3(iii)/24]		Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 25mm	Rft	180	47.85		
		1.2	<u>1st Light Point Controlled By One Switch</u>					
			Wiring of first light point controlled by one switch and wired with 2x1.5 mm sq.(P+N) PVC insulated wires 300/500 V grade, manufactured by M/s. Pakistan Cables Ltd, Pioneer Cables, Newage Cables in and including cost of 3/4" dia. heavy duty PVC conduit make Beta, Shavyl or Premium, recessed in wall, columns slabs or above light carrier all PVC conduit accessories, 3" high PVC junction boxes, pull boxes, steel pull wires, PVC flexible conduit from ceiling junction box to light fixture with brass chuck nut including 1.5mm sq. PVC insulated wire of colour green as CPC, M.S. sheet steel switch box 16 SWG with earth terminal and 2 coats of enameled paint, M.S. box shall be of the same size as that of 1, 2 or 3 gang flush type plate switches, excluding cost of gang type light switches 10 amps (CK=48)					
	[Ref: Item 10 (a-i)/24]		Supply and erection of single core PVC insulated copper conductor cables in prelaidd PVC pipe/M.S conduit G.I pipe\wooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only)	Rft	1020	11.7		

Contractor

In-charge Tender Cell, UAF

			i) Cost of 1 No. 1x 1.5 mm (3/0.029")					
	[Ref: Item 3(ii)/24]		Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 20mm	Rft	510	41.45		
		1.3	<u>Point- Points Wiring</u>					
			Same as Item No. 1.2 but Loop wiring of a light point from fist light point with 2x1.5 mm sq.(P+N) PVC insulated wires 300/500 V grade, manufactured by M/s. Pakistan Cables Ltd, Pioneer Cables, Newage Cables in and including cost of 3/4" dia. heavy duty PVC conduit make Beta, Shavyl or Premium recessed in wall, columns slabs or above light carrier all PVC conduit accessories, 3" high PVC junction boxes, pull boxes, steel pull wires, PVC flexible conduit from ceiling junction box to light fixture with brass chuck nut including 1.5mm sq. PVC insulated wire of colour green as CPC, M.S. sheet steel switch box 16 SWG with earth terminal and 2 coats of enameled paint.(CK=144)					
	[Ref: Item 10 (a-i)/24]		Supply and erection of single core PVC insulated copper conductor cables in prelaidd PVC pipe/M.S conduit G.I pipe\wooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only)i) Cost of 1 No. 1x 1.5 mm (3/0.029")	Rft	840	11.7		

Contractor

In-charge Tender Cell, UAF

	[Ref: Item 3(ii)/24]		Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 20mm PVC pipe	Rft	420	41.45		
		1.4	<u>1- 13 Amps Switch Socket</u>					
			Wiring and fixing of one 13A light plug sockets from DB to point with 2x1 core 4 mm sq. + 1x2.5mm sq. CPC, PVC wires 300/500 Volt grade, M/s. Pakistan Cables Ltd, Pioneer Cables, Newage Cables in and including cost of 1" dia. heavy duty PVC conduit, make Beta, Shavyl or Premium recessed in walls, floor, above false ceiling or as required as per site conditions, all PVC conduit make Beta accessories, pull boxes, steel pull wires, M.S. box shall be made of 16 SWG sheet steel with earth terminal having 2 coats of antirust paint, M.S. box shall be of the same size as that of 1-13Amps switch socket, including cost of 13 Amps 3 pin combined switch socket make BUSH Pakistan. Wiring shall be done directly from the MCB installed in the respective DB without any claim of circuit. (CK=16)					
	[Ref: Item 10 (a-iv)/24]		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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x4 mm ² (7/0.036")	Rft	300	22.95		
	[Ref: Item 10 (a-iii)/24]		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 and capping/G.I wire/trenches (rate for cables only)	Rft	150	15.95		

Contractor

In-charge Tender Cell, UAF

			ii) Cost of 1x2.5 mm ² (7/0.029")					
	[Ref: Item 3(ii)/24]		Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials iii) Cost of 25 mm PVC pipe	Rft	150	47.85		
		1.5	<u>Loop-Loop- 13 Amps Switch Socket</u>					
			Same as above item No. 1.4 but loop wiring of 13A light plug socket outlet from DB to point with 2x1 core 4 mm sq. + 1x2.5mm sq. CPC, PVC wires 300/500 Volt grade, make M/s. Pakistan Cables Ltd, Pioneer Cables, Newage Cables in and including cost of 1" dia. heavy duty PVC conduit, make Beta, Shavyl or Premium recessed in walls, floor, above false ceiling or as required as per site conditions, all PVC conduit make Beta accessories, pull boxes, steel pull wires, M.S. box shall be made of 16 SWG sheet steel with earth terminal having 2 coats of antirust paint, M.S. box shall be of the same size as that of 1-13Amps switch socket, including cost of 13 Amps 3 pin combined switch socket make BUSH Pakistan. Wiring shall be done directly from the MCB installed in the respective DB without any claim of circuit.					
	[Ref: Item 10 (a-iv)/24]		Supply and erection of single core PVC insulated copper conductor cables in prelaidd PVC pipe/M.S conduit G.I pipe\wooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x4 mm ² (7/0.036")	Rft	400	22.95		

Contractor

In-charge Tender Cell, UAF

	[Ref: Item 10 (a-iii)/24]		Supply and erection of single core PVC insulated copper conductor cables in prelaidd PVC pipe/M.S conduit G.I pipe\wooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only) ii) Cost of 1x2.5 mm2 (7/0.029")	Rft	200	15.95		
	[Ref: Item 3(ii)/24]		Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specialsiii) Cost of 25 mm PVC pipe	Rft	200	47.85		
		1.6	<u>1 x 3 Pin 15 Amps Switch Socket</u>					
			Wiring and fixing of one 15A power sockets outlet with 2x 4mm2(P+N) & 1x2.5mm2 as CPC single core cables from DB to point combined switch socket outlet creamic Base with Rocker Switch (Shuttered) Silver Point, Neon Light Heavy duty 2P+E, 20A,250V. PVC wires 300/500 Volt grade, M/s. Pakistan Cables Ltd, Pioneer Cables,Newage Cables in and including cost of 1" dia. heavy duty PVC conduit, make Beta , Popular recessed in walls, floor, above false ceiling or as required as per site conditions, all PVC conduit make Beta, Shavyl or Premium accessories, pull boxes, steel pull wires, M.S. box shall be made of 16 SWG sheet steel with earth terminal having 2 coats of antirust paint , M.S. box shall be of the same size as that of 1-20Amps switch socket, including cost of 15 Amps 3 pin combined switch socket make BUSH Pakistan. Wiring shall be done directly from the MCB installed in the respective DB without any claim of circuit.(CK=6)					

Contractor

In-charge Tender Cell, UAF

	[Ref: Item 10 (a-iv)/24]		Supply and erection of single core PVC insulated copper conductor cables in prelaidd PVC pipe/M.S conduit G.I pipe\wooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x4 mm2 (7/0.036")	Rft	120	22.95		
	[Ref: Item 10 (a-iii)/24]		Supply and erection of single core PVC insulated copper conductor cables in prelaidd PVC pipe/M.S conduit G.I pipe\wooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x2.5 mm (7/0.029")	Rft	60	15.95		
	[Ref: Item 3(ii)/24]		Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 25 mm	Rft	60	47.85		
		1.6	<u>1 x 3 Pin 20 Amps Switch Socket</u>					

Contractor

In-charge Tender Cell, UAF

		Wiring and fixing of one 20A power sockets outlet with 2x 4mm ² (P+N) & 1x2.5mm ² as CPC single core cables from DB to point combined switch socket outlet ceramic Base with Rocker Switch (Shuttered) Silver Point, Neon Light Heavy duty 2P+E, 20A,250V. PVC wires 300/500 Volt grade, M/s. Pakistan Cables Ltd, Pioneer Cables, Newage Cables in and including cost of 1" dia. heavy duty PVC conduit, make Beta , Popular recessed in walls, floor, above false ceiling or as required as per site conditions, all PVC conduit make Beta, Shavyl or Premium accessories, pull boxes, steel pull wires, M.S. box shall be made of 16 SWG sheet steel with earth terminal having 2 coats of antirust paint , M.S. box shall be of the same size as that of 1-20Amps switch socket, including cost of 15 Amps 3 pin combined switch socket make BUSH Pakistan. Wiring shall be done directly from the MCB installed in the respective DB without any claim of circuit.(CK=2)					
	[Ref: Item 10 (a-iv)/24]	Supply and erection of single core PVC insulated copper conductor cables in prelaidd PVC pipe/M.S conduit G.I pipe\wooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x4 mm ² (7/0.036")	Rft	360	22.95		
	[Ref: Item 10 (a-iii)/24]	Supply and erection of single core PVC insulated copper conductor cables in prelaidd PVC pipe/M.S conduit G.I pipe\wooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x2.5 mm (7/0.029")	Rft	180	15.95		

Contractor

In-charge Tender Cell, UAF

	[Ref: Item 3(ii)/24]		Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specialsii) Cost of 25 mm	Rft	180	47.85		
		1.8	Fan Points Conforming to same specifications as mentioned above for Item No. 1.2. but wiring of ceiling fan points, including cost of MS hook box circular type having MS hook 16 mm (5/8") dia make Unique, Beta to be casted in RCC slab, MS switch board of appropriate size to accommodate dimmer, complete in all respects, including dimmer provided by the Fan manufacturer.(CK=88)					
	[Ref : Item 49/24]	i	Supply and erection of 3/8" (10 mm) dia M.S. bar fan hook placed at the time of casting of slab.	Each	9	39.45		
	[Ref : Item 14(ii)/24]	ii	Back Box (7"x4")	Each	9	221.90		
	[Ref: Item 10 (a-i)/24]	iii	Supply and erection of single core PVC insulated copper conductor cables in prelaaid PVC pipe/M.S conduit G.I pipe\wooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 1.5 mm (3/0.029")	Rft	855	11.7		
	[Ref: Item 3(ii)/24]	iv	Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 20mm	Rft	427.5	41.45		

Contractor

In-charge Tender Cell, UAF

		1.8	Wall Bracket Fan Points Conforming to same specifications as mentioned above for Item No. 1.2. but wiring of Wall bracket fan points, including cost of MS hook box MS switch board of appropriate size to accommodate dimmer, complete in all respects, including dimmer provided by the Fan manufacturer.(CK=19)					
	[Ref: Item 10 (a-i)/24]	iii	Supply and erection of single core PVC insulated copper conductor cables in prelaid PVC pipe/M.S conduit G.I pipe\wooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 1.5 mm (3/0.029")	Rft	95	11.7		
	[Ref: Item 3(ii)/24]	iv	Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 20mm	Rft	47.5	41.45		
		1.9	Exhaust Fans Points Conforming to same specifications as mentioned above in Item No. 1.2 but wiring of exhaust fan point excluding cost of hook box but including cost of 10 A switch make Clipsal M.S box 16 SWG with earth terminal, 2 coats of antirust point, all fixing accessories, 1-5 Amps ceiling rose and including one switch of 10 amps switch. (CK=11)					
	[Ref: Item 10 (a-i)/24]		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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 1.5 mm (3/0.029")	Rft	285	11.7		

Contractor

In-charge Tender Cell, UAF

	[Ref: Item 3(ii)/24]		Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 20mm	Rft	143	41.45		
2			<u>L.T. Power Cables</u>					
			Supply at site, installation, testing and commissioning of PVC insulated non armoured copper conductor cable 600 / 1000 Volt grade manufactured by any one of the manufacturers M/s. Pakistan Cables Ltd, Pioneer Cables, Newage Cables in prelaidd conduits / trenches to be installed as per routes shown on drawings including cost of all necessary materials, connections, identification tags, cables lugs properly crimped at both ends for the following sizes complete in all respects. Actual length of cables to be installed shall be practically measured at site by the Contractor, duly authenticated by the employers electrical engineer before placing the order with the manufacturer, however, approximate length of cables are shown herewith. Payments shall be made as per actual length installed.					
	-	2.1	<u>4 Core Cable PVC/PVC</u>	-	-	-	-	
	13-c-(vi)/24		c) 4 core 16mm sq. (equivalent 19/0.064")	Rft	150	271.10		
		2.2	<u>Circuit Protective Conductor (CPC)</u>					
	11-(V)/24		c) 1 core 6mm sq.	Rft	150	36.10		
3			<u>PVC Conduit</u>					

Contractor

In-charge Tender Cell, UAF

		3.1	Supply at site of PVC conduit heavy duty make Beta, Shavyl or Premium to be concealed in RCC slabs, walls, floor, columns above false ceiling or as required as per site conditions including cost of all PVC conduit accessories, steel pull wires, complete in all respects.					
	3(vi)/24		e) 2" Did PVC Conduit	Rft	150	84.25		
		3.2	<u>PVC PIPE FOR AUDIO SYSTEM</u>					
			Supply and erection of PVC pipe for wiring recessed in walls, including inspection boxes, pull boxes, hooks, cutting harries, and repairing surface, etc., complete with all specials.					
	3-(iii)/24	a	25 mm i/d	Rft	450	47.85		
			Total A-(Schedule Items)=					
B) Non-Schedule Items.								
1			Switch & Sockets.					
	Approved NS	1.1	i) Providing and Installation of PVC Sheet Back Box 7.5 cm x 7.5 cm (6"x3") (Non Metallic) China Made	Each	8	78.00		
	Approved NS	1.2	i) Providing and Installation of PVC Sheet Back Box 7.5 cm x 7.5 cm (3"x3") (Non Metallic) China Made	Each	14	120.00		
	E-1048	1.4	Supply & fitting of 10A, 2 Gang 1 Way Switch Clipsal Made Bush / Orange made, As per approval of Engineer Incharge.	Each	2	366.00		
	E-1050	1.5	Supply & fitting of 10A, 4 Gang 1 Way Switch Clipsal Made Bush / Orange made, As per approval of Engineer Incharge.	Each	4	669.00		
	E-1052	1.7	Supply & fitting of 10A, 6 Gang 1 Way Switch Clipsal Made Bush / Orange made, As per approval of Engineer Incharge.	Each	2	989.00		

Contractor

In-charge Tender Cell, UAF

	E-1057	1.10	Supply & fitting of 13A switch socket Clipsal Made	Each	9	561.00		
	E-1059	1.14	Supply & fitting of 15A switch socket Clipsal Made	Each	3	610.00		
2			<u>Light Fittings And Fixtures</u>					
		2.1	<u>LIGHTS</u>					
	E-1018	i	Supply & fitting of LED Down Light 18 Watts Surface mounted DN027C LED CW 6500K Philips Made	Each	31	2703		
	E-1009	i	Supply & fitting of LED flood light 50 watts IP65 BVP 135 Philips Made	Each	2	7665		
	Appendix 'c' Page No-12	iii	Supply and erection of outdoor water tight fancy wall bracket light, flexible wire including connection from ceiling rose etc complete in all respect as approved by the engineer make Phillips, Omega or Sunlight.	Each	6	3842		
	E-1054	2.2	Supply & fitting of Fan speed controller switched Clipsal Made	Each	9	1242.00		
	E-1045		Supply & fitting of ceiling Fan 56" copper (Energy Efficient Pak Fan Deluxe Model as approved by PEECA)	Each	9	4498		
	Approved NS		Providing and Installation of PVC Fan Box Including Rod Popular Made.	Each	9	150		
		2.4	<u>Exhaust Fans</u>					
			Supply & fitting of Exhaust Fan 12" copper plastic body (Energy Efficient Model) G.F.C or Equivalent Made NEECA/PEECA Approved					

Contractor

In-charge Tender Cell, UAF

	E-1021	i	12" dia (Plastic Body).	Each	3	3118		
		2.3	<u>Wall Bracket Fan</u>					
	Approved NS		Providing and installtion of wall bracket fan 18" Size Lahore Fan. (Energy Efficient Fan as approved by PEECA)	Each	1	4101		
3			<u>L.T. Switchgear</u>					
			<u>Distribution Board Concealed</u>					
			Supply, installation, connection of wires cables, and commissioning of distribution boards concealed type or to be installed on wall, made of 16 SWG M.S. sheet with hinged door, handle, catcher, earthing bar and neutral link with necessary holes, nuts, bolts, washers, earthing of DB door with braided copper internal wiring , PVC cable glands for incoming and out going wires/cables, 2 earthing terminals designation label engraved on plastic sheet of appropriate size to be pasted on the front side of DB, 3 phase indication lamps of colour red, yellow, blue, make Hager, Legrand (France) SV122 SV128 SV126 moulded case circuit breaker with overload and short circuit protection (MCCB) to be installed on the incoming side, Icu not less than 10 KA , and for miniature circuit breakers Icu 6 KA make G.E (Europe & USA), M.G., Legrand (France), ABB (Italy) Terasaki (Japan) having overload and short circuit protection, including cost of all necessary fixing accessories complete in all respects make Tariq Electric, Billal Engineering, PEL, Techno Engineering.					

Contractor

In-charge Tender Cell, UAF

	Appendix 'c' Page No-16	3.1	DBLP-G FOR MOSQUE 01 No. Incoming 50 Amp MCCB TP, RC=10 kA 15 No. Outgoing 10/16/20 Amp MCB SP, RC=6 kA a) Volt Selector Switch b) 1 No Digital voltmeter c) 3 No indication lights 220 Volt d) 3 Ph N & Earth copper busboards e) Internal wiring & Line-up terminal, Cable Numbering Sleeves etc f) Panel steel grid painted along with locking arrangement	Each	1	46249		
4		4.1	<u>Earthing System</u>					
	Appendix 'c' Page No-4		Supply, installation, commissioning and testing of the earthing system including cost of the following 3 meter long of 5/8" dia tinned copper electrodes. up-to water level including cost of boring and lowering complete with clamp and 2 X 25mm ² stranded copper conductor from copper rod to ground surface in 1-1/2" uPVC Pipe class D with watering cap manhole with cover as per detail complete in all respects. and the resistance should up to 1-3 Ohms. the installation / test should be conducted in presence of engineer incharge.	Job	1	44138		
		4.2	<u>Earth Connecting Point</u>					
	Appendix 'c' Page No-5		Supply, installation of earth connecting points consisting of copper plate 12" long, 2" wide and 1/2" thick to be installed as and where shown on drawings on the wall of the trenches, complete with fixing arrangement, brass nuts bolts complete in all respects to facilitate connections of Incoming copper strips and Outgoing CPC.	Nos.	1	3278		
		4.3	<u>Manhole</u>					

Contractor

In-charge Tender Cell, UAF

	Appendix 'c' Page No-6		Constructing of 2'x 2'x 2.5' (internal size) including earth work 4" thick PCC 1:4:8 9" thick first class burnt brick work in 1:5 mortar, plastered inside in 1:5 cement sand and 4" thick RCC cover with grade 40 reinforcement.	Nos.	1	7238		
6			<u>Audio System</u>					
	Appendix 'c' Page No-9	1	Supply and installation of Wall Speaker with 5W~15W selection mode. Make TOA.	Each	6	17548		
	Appendix 'c' Page No-10	2	Supply and installation of Goosenect Dynamic Microphone. Make TOA.	Each	1	20402		
	Appendix 'c' Page No-11	3	Supply and installation of Amplifier - 240 Watts with 3 Mic Input and 2x AUX input. Make TOA.	Each	1	90739		
	Appendix 'c' Page No-12	3	Wiring of Each P.A Points, wired with PA Speaker Cable, 2 x 1.23mm, Bare CU Type, manufactured by Ventilux Inc	Rft	800	75		
			Total B(Non-Schedule Items)=					
			Total (A+B)=					

Contractor

In-charge Tender Cell, UAF

**ESTABLISHMENT OF SUB-CAMPUS OF UNIVERSITY OF AGRICULTURE
FAISALABAD, AT DEPALPUR - OKARA (HEC FUNDED)**

MULTIPURPOSE HALL

BILL OF QUANTITIES

CIVIL WORKS

Item No.	MRS ITEMS NO	Description of Items	Unit	Qty	Rate (Rs.)	Rate Quoted by The Contractor	Amount (Rs.)
MRS, 2nd BI-ANNUAL-2018 (1st July-2018 to 31st December-2018) DISTRICT OKARA							
		SCHEDULE ITEMS-A					
		Earth Work					
1	CH:3/47(a)	Jungle clearance and removing within 100 ft. (30 m).a) light	1000 Sft	20,149.35	152.35		
2	CH:3/21(b)	Excavation in foundation of building and other structures, including debelling,dressing,refilling around structure with excavated eart,watering and ramming lead upto one chain 100ft and lift upto 5 ft.in ordinary soil.	1000 Cft	22,608.01	6,434.20		
3	CH:3/15(i)(ii)	Filling, watering and ramming earth under floors:					
		i) with surplus earth from foundation, etc.	1000 Cft	15,072.01	3,083.00		
		ii) with new earth excavated from outside,lead upto 5 Mile.(as per actual borrow pit lead)	1000 Cft	42,317.51	12,299.60		

Contractor

In-charge Tender Cell, UAF

		Anti-Termite					
4	CH:25/42	Spraying anti-termite liquid mixed with water in the ratio of 1:40.	100 Sft	18,359.26	224.80		
5	CH:6/5	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:-					
		(i) Ratio 1: 4: 8	100 Cft	1,721.63	13,002.75		
		Plain and Reinforcement Concrete					
6	CH:6/5	Cement concrete plain including placing, compacting , finishing and curing complete (including screening and washing of stone aggregate)					
6.1		(i) Ratio 1: 4: 8 (Under Footing)	100 Cft	1,073.88	17,919.25		
6.2		(f) Ratio 1: 2: 4 (Under Floor)	100 Cft	430.63	22,832.05		
	CH:6/6	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.):-					
7	(a)(ii)	Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and other structural members other than those mentioned in i) above not requiring form work (i.e. horizontal shuttering) complete in all respects:-					

Contractor

In-charge Tender Cell, UAF

		(3) Type C (Ratio 1: 2: 4)(Footings)	Per/ Cft	6,391.56	266.70		
8	(a)(i)	Reinforced cement concrete slabs, beams, girders, Lintels and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects;-					
		GROUND FLOOR					
		Type B (Ratio 1: 1½: 3)(Column)	Per/ Cft	2,751.81	392.05		
		Type C (Ratio 1: 2: 4)(Lintel)	Per/ Cft	423.00	361.90		
		Type C (Ratio 1: 2: 4)(Beam)	Per/ Cft	4,322.47	361.90		
		Type C (Ratio 1: 2: 4)(Slab)	Per/ Cft	3,926.50	361.90		
		FIRST FLOOR					
		Type B (Ratio 1: 1½: 3)(Column)	Per/ Cft	1,318.00	414.90		
		Type C (Ratio 1: 2: 4)(Lintel)	Per/ Cft	98.44	384.75		
		Type C (Ratio 1: 2: 4)(Beam)	Per/ Cft	764.81	384.75		
		Type C (Ratio 1: 2: 4)(Slab)	Per/ Cft	1,151.00	384.75		
		SECOND FLOOR					
		Type B (Ratio 1: 1½: 3)(Column)	Per/ Cft	531.00	437.75		
		Type C (Ratio 1: 2: 4)(Beam)	Per/ Cft	5,180.63	407.60		
		Type C (Ratio 1: 2: 4)(Slab)	Per/ Cft	3,907.50	407.60		
		Steel Reinforcement					

Contractor

In-charge Tender Cell, UAF

9	CH:6/9	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) (ii) Deformed bar (Grade 60)	100Kg	104,705.43	13,223.50		
10	CH:6/33(a)	Providing and laying damp proof course of cement concrete 1:2: 4(using cement, sand and shingle), including bitumen coating :- (a) with one coat of bitumen and one coat of polythene sheet ii) 2" thick (50 mm)	100 Sft	1,118.81	5,293.45		
11	CH:6/35(a)	Providing and laying vertical damp proof course with cement sand plaster and bitumen coating (a) with one coat of bitumen and one coat of polythene sheet ii) Ratio 1:3 b) ¾ " thick (20 mm)	100 Cft	1,640.00	3,424.15		
		Brick Work					
12	CH:7/-4i	Pacca brick work in foundation and plinth in:- Cement, sand mortar:-Ratio 1:6	100 Cft	4,184.60	17,558.45		
		GROUND FLOOR					
13	CH:7/5i	Pacca brick work in ground floor:-Ratio 1:5	100 Cft	11,160.72	19,211.40		
14	CH:7/5i	Pacca brick work in ground floor :-Ratio 1:4	100 Cft	1,055.43	19,734.60		
		FIRST FLOOR					
15	CH:7/5i	Pacca brick work in First floor:-Ratio 1:5	100 Cft	4,118.63	19,993.65		
		SECOND FLOOR					
16	CH:7/5i	Pacca brick work in Second floor:-Ratio 1:5	100 Cft	1,685.25	20,948.80		
		Flooring					

Contractor

In-charge Tender Cell, UAF

17	CH:7/30	Supplying and filling sand under floor; or plugging in wells	100 Cft	5,731.42	1,693.90		
18	CH:10/3	Providing, laying, watering and ramming brick ballast 1½ to 2"(40 mm to 50 mm) gauge mixed with 25 % sand, for floor foundation, complete in all respects	100 Cft	5,731.42	4,300.30		
19	CH:10/22	2"(50 mm) thick mosaic flooring, consisting of ½ "(13 mm) mosaic topping of one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over 1½"(40 mm) thick floor of 1:2:4 cement concrete, including rubbing and polishing complete with finishing :-					
		(a) using grey cement	100 Sft	6,702.84	10,884.74		
		(b) using white cement	100 Sft	6,702.84	11,661.84		
20	CH:10/22	Mosaic dado or skirting with one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over ½"(13 mm) thick cement plaster 1:3, including rubbing and polishing, complete with finishing: ii) ½"(13 mm) thick					
		(a) using grey cement	100 Sft	367.13	10,716.15		
		(b) using white cement	100 Sft	367.13	11,234.30		
21	CH:10/15(c)	Providing and laying topping of cement concrete 1:2:4, including surface finishing and dividing in panels:- 1½"(40 mm) thick					
		Plinth Protection	100 Sft	1,926.00	3,848.20		

Contractor

In-charge Tender Cell, UAF

22	CH:10/42(a)	Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels					
		a) Size 2" x 3/8" (50 x 10 mm)	Per Rft.	9,969.41	6.60		
		Surface Rendering					
23	CH:11/10(b)	Cement plaster ratio 1:3 under soffit of RCC roof slabs only, upto 20' height. 3/8" (10 mm) thick. (ceiling plaster)	100 Sft	16,015.96	2,074.05		
24	CH:11/9(b)	Cement plaster 1:5 on internal walls upto 20' (6 m) height and 1/2" (13 mm) thick.	100 Sft	16,384.48	1,747.25		
	CH:11/9(c)	Cement plaster 1:5 on internal walls upto 20' (6 m) height and 3/4" (20 mm) thick.	100 Sft	16,384.48	2,370.10		
25	CH:11/18(b)	Cement pointing struck joints, on walls, upto 20' (6.00 m) height:- b) ratio 1:3	100 Sft	14,712.50	1,851.05		
26	CH:11/18(b)	Extra for lime, mud or cement plaster and pointing from 20' (6.00 m) and above for each additional 10' (3.00 m) height or part thereof.	100 Sft	7,375.00	235.35		
		Wood Work					
26	CH:12/7(a)	First class deodar wood wrought joinery in doors and windows, etc. panelled, or panelled or glazed, or fully glazed, fixed in position, including chowkat, holdfast, hinges, tower bolts, chocks, rubber stop, cleats/G.I. clamps, handles and chord with hooks, etc. complete (excluding sliding bolt or lock):- a) 2" thick (50 mm)	Per/Sft	320.00	1,198.10		

Contractor

In-charge Tender Cell, UAF

27	CH:12/50	Providing and fixing 1½" (40mm) 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" (50mm x 10mm) around shutter including chromium plated fitting, iron hinges with aluminium kick plate 22 SWG on both sides & finger plate complete in all respect.	Per/Sft	465.50	363.10		
28	CH:12/58(b)	Providing and fixing ornamental wooden architrave 3" x(1½" tapered to ¼") all along the door frame complete in all respect.b)Deodar wood architrave	Per/Sft	785.50	44.95		
29	CH:12/21	Providing and fixing, approved quality mortice lock complete in aal respect	Each	29.00	551.05		
30	CH:12/59	Providing and fixing Vin board cabinet ¾" thick with drawers 3"deep in 'Kitchen including termite proofing and polishing with synthetic enamel as specified, with handles hinges,screws etc., complete in all respects.iv) 2' deep,with back	Per/Sft	104.50	687.25		
		Painting and Warnishing					
31	CH:13/31	Preparing surface and painting with emulsion paint:-3 Coats New Surface	100 Sft	48,784.93	1,153.45		
32	CH:13/32A	Providing and applying weather shield paint of approved quality on external surface of building including preparation of surface, application of primer complete in all respect:- 3 Coats New Surface	100 Sft	515.75	2,885.85		
33	CH:13/7	French polishing new surface	100 Sft	350.00	2,726.70		

Contractor

In-charge Tender Cell, UAF

34	CH:13/5(c)	Preparing surface and painting of doors and windows any type (including edges) 3 Coats New Surface	100 Sft	931.00	1,562.65		
		Metal Work					
35	CH:25/39	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.	61.50	678.90		
36	CH:25/44	Providing and fixing windows consisting of M.S. box section frame 2"x1½", (50x40mm) leaves frame 1½"x1" (40x25mm) box section frame for glazing 3/8"x3/8" (10x10mm) using 16 SWG sheet 'U' shaped rubber supported with 1"x1/8" (25x3mm) M.S. flat for fixing 3/16" (5 mm) thick glass panes M.S. box section ½"x½" (13x13mm) of 16 SWG for fixing 24 SWG wire gauze on outer side by means of ¾"x1/8" (20x3mm) M.S. flat and screws including grill of M.S. flat ½"x1/8" (13x3mm) or ¼"x¼" (6x6mm) square bar with independent frame of ½"x½" (13x13mm) box section of 16 SWG i/c all C.P. fitting and painting 3 coats complete in all respect	Per/Sft	1,959.00	491.90		

Contractor

In-charge Tender Cell, UAF

37	CH:25/37	Providing and fixing 24 SWG G.I. sheet rolling shutter, consisting of steel frame of M.S. channel 2"x1¼"x1/8" (50x30x3 mm), angle iron 1½"x1½"x1/8" (40x40x3 mm), M.S. plate 1"x1"x1/8" (300x300x3 mm), G.I. pipe 1½" (37mm) dia, springs 2' (600 mm) centre to centre, rollers, 24 SWG G.I. covering 1 ft. x 1 ft. (300x300 mm), handles, holdfast, and painting three coats, complete in all respects.	Per/Sft	423.32	260.30		
		Roofing & Water Proofing					
38	CH:9/45a	Providing and Laying Insulation material of Extruded Polystyrene XPS in Rigid Insulation / Foam Board on roof or walls, Density 32-38Kg/M, compressive strength 250-400 kpa, R-value 5 per inch thickness and water obsorbtion (1% by volume, cell structure clored cell) i/c cutting and placing in position complete in all respect. a) 1" thick	100 Sft	17,730.00	5,688.00		
39	CH:9/5	Single layer of tiles 9"x4½"x1½" (225x113x40 mm) laid over 4"(100 mm) earth and 1" (25 mm) mud plaster without Bhoosa, grouted with cement sand 1:3 on top of RCC roof slab, provided with 34 lbs. per %Sft. or 1.72 Kg/Sq.m bitumen coating sand blinded.i/c P/L polythene sheet 500 gauge	100 Sft	17,730.00	6520.5		
40	CH:9/15	Construction of Khuras on roof 2' x 2' x 6"	Each	14.00	497.55		
41	CH:9/16	Bottom Khuras of brick masonry in cement mortar 1:6,4'x2'x4½" (1200x600x113 mm) over 3" (75 mm) cement concrete 1:4:8.	Each	14.00	836.2		
		Total "A"(Schedule items)					
		NON SCHEDULE ITEMS-B					
		Flooring					

Contractor

In-charge Tender Cell, UAF

1	N.S	Providing and laying Porcelain tiles flooring (full body) 16"x16" laid over 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement and matching pigment i/c cutting charges complete in all respects as approved & Directed by the Engineer Incharge. (Master, DWV series Polished (Dark color) class SB	Per/Sft	1,165.31	227.00		
2	N.S	Providing and laying CERAMIC FLOOR TILES (PREMIUM) Size 12x12(CFT MATT) laid over 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement and matching pigment i/c cutting charges complete in all respects as approved & directed by the Engineer Incharge. Flooring. STILE TILES (Shabbir Tiles)	Per/Sft	829.95	158		
		Skirting					
3	N.S	Providing and laying Porcelain tiles flooring (full body) 16"x4"x3/8" laid over 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement and matching pigment i/c cutting charges complete in all respects as approved & Directed by the Engineer Incharge. (Master, DWV series Polished (Dark color) class SB Dado/ Skirting	Per/Sft	46.29	240.00		
		Dado					
4	N.S	Providing and laying CERAMIC WALL TILES (PREMIUM) size 12"x18" laid over 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement and matching pigment i/c cutting charges complete in all respects as approved & directed by the Engineer Incharge.STILE TILES (Shabbir Tiles) Dado/ Skirting	Per/Sft	1,054.30	171.00		
		Entrance Steps / Podium					

Contractor

In-charge Tender Cell, UAF

5	N.S	Providing and fixing 3/4" thick pre-polished Marble Slab Granite uniform texture full width area above 2 sft laid over 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement & matching pigment i/c beveling charges on exposed edges complete in all respect as approved / directed by the Engineer Incharge	Per/Sft	1,023.64	613.00		
		Kitchen Counter					
6	N.S	Providing and fixing 3/4" thick pre-polished Marble Slab Sunny Grey uniform texture full width area above 2 sft laid over 3/4" thick cement sand mortar (1:2) i/c filling joints in white cement & matching pigment i/c making gola on exposed edges complete in all respect as approved / directed by the Engineer Incharge.	Per/Sft	57.00	305.00		
		Miscellenious					
7	Approved N.S	Providing and Fixing of M.S steel chowkats full jam of 10-1/2"x 2" single rebate of M.S 16 SWG with up to 4 Nos 5" long C.P hinges screwed / welded M.S flat iron 2" x 1/8" in back of hinges welded inside i/c 3/8" dia bars 2 Nos bottom with 6 NOS 6" long hold fast angle iron 1.5"x1.5"x3/16" also back fill with P.C.C 1:2:4 i/c painting with red oxide and bitumen coating on surface touching with concrete complete in all respect.	Per/Sft	273.00	330.00		
8	Approved N.S	Providing and Fixing M.S steel chowkats full jam of 5-1/2"x 2" single rebate of M.S 16 SWG with up to 4 Nos 5" long C.P hinges screwed / welded M.S flat iron 2" x 1/8" in back of hinges welded inside i/c 3/8" dia bars 2 Nos bottom with 6 NOS 6" long hold fast angle iron 1.5"x1.5"x3/16" also back fill with P.C.C 1:2:4 i/c painting with red oxide and bitumen coating on surface touching with concrete complete in all respect.	Per/Sft	192.50	291.00		

Contractor

In-charge Tender Cell, UAF

9	N.S	Providing and fixing glazed Aluminium frame Glass wall with openable door as shown in drawing using sections of Pakistan Cables (Pvt.) Ltd., or Chawla Aluminium or approved equivalent, 100mm wide and 2 mm thick frames up to required height, including imported 12mm thick tempered clear glass, with imported floor hinges of make tristar , SS door handle 4' long, with complete hardware, locks(myco of japan or approved) etc. as shown on drawings, and as per sample approved by the Engineer.	Per/Sft	340.00	1,264.00		
10	N.S	Supply, provide and fix in position uPVC rain water down pipe lines conforming to ISO 3633:1991 and BS 3505 1968 (wall thickness 3.2mm) including proper joints complete in all respects, and system leak-free:					
		4" dia	Rft	252.00	250		
11	N.S	Provide and fix uPVC plain bends with grating (as rain water inlets at roof), water tight connection leak-free:					
		4" dia	Each	14.00	1,400		
12	N.S	Provide and fix uPVC shoe bends (as rain water outlets), water tight connection leak-free					
		4" dia	Each	14.00	1,000		
		Total "B"(Non Schedule items)					
		Net Total (A+B)					

Contractor

In-charge Tender Cell, UAF

ESTABLISHMENT OF SUB-CAMPUS OF UNIVERSITY OF AGRICULTURE FAISALABAD, AT DEPALPUR - OKARA (HEC FUNDED)

MULTIPURPOSE HALL

BILL OF QUANTITIES

PUBLIC HEALTH WORKS

Sr #	MRS	Description	Unit	Qty.	Unit Rate (Rs)	Rate Quoted by The Contractor	Amount (Rs)
MRS, 2nd BI-ANNUAL-2018 (1st July-2018 to 31st December-2018) DISTRICT OKARA							
		<u>SCHEDULE ITEMS</u>					
1	19-1-i	Providing and fitting glazed earthen ware water closet European type, excluding seat and cover:-	Each	7	2,191.50		
2	19-9-i	Providing and fixing glazed earthen ware sink, including bracket set, waste pipe and waste coupling: 60x45 cm (24"x18")	Each	1	1,740.60		
		<u>G.I Piping</u>					
3	23-22-iii	Providing, laying, cutting, jointing, testing and disinfecting G.I. pipeline in trenches, (Cost of sockets, tees, elbows, bends, valves, crosses, unions and plugs, etc. is included in the rates) with socket joints, using G.I pipes of B.S.S. 1387-1967 complete in all respects, with specials and valves. Heavy Duty					
		a) ¾" i/d (20 mm) 3.25mm thick	Rft	425	141.15		
		<u>SEWERAGE</u>					

Contractor

In-charge Tender Cell, UAF

4	21-1	Providing and laying RCC pipe, moulded with cement concrete 1:1.5:3, with spigot socket or collar joint, etc. including cost of reinforcement, confirming to B.S. 5911: Part I: 1981, class "L" including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing, cutting pipes where necessary, finishing and testing, etc. complete.					
		(i) 150 mm (6:) i/d	Rft	221	190.50		
		(ii) 225 mm (9:) i/d	Rft	30	343.20		
5	23-27	Providing, laying, cutting, jointing, testing and disinfecting. pipes of B.S.S. with 'D' 2 and valves is not included in the Class working pressure complete in all respects:-					
		a) 2" i/d (75 mm)	Rft	1	79.50		
		b) 3" i/d (75 mm)	Rft	415	169.00		
		c) 4" i/d (110 mm)	Rft	180	281.60		
6	21-17	Providing and fixing 6" thick RCC manhole cover with 3"x3"x1/4" angle iron frame, 22" i/d as per standard drawing STD/PD no. 7 of 1977, complete in all respects.	Per set	5	4,729.90		
Total "A"(Schedule items)							
		<u>NON SCHEDULE ITEMS</u>					
1	PH-0018	P/F OF WATER CLOSET ORRISA PATTERN FULL SIZE 3 star Made	Nos.	2	2,850		
2	PH-0017	P/F OF FLUSHING CISTERN. 3 Star Made	Nos.	9	3,300		
3	PH-0016	P/F OF WASH H& BASIN WITH PEDESTAL & FITTINGS. 3 StarMade	Nos.	6	5,894		
4	PH-0019	P/F OF VANITY COUNTER BASIN INCLUDING COST OF FITTINGS. 3 Star Made	Nos.	5	4,340		
5	PH-0009	P/F OF SINK MIXER (020) 1/2" DIA Master Made	Nos.	1	4,500		

Contractor

In-charge Tender Cell, UAF

6	PH-0008	P/F OF BASIN MIXER (801) 1/2" DIA Faisal Made	Nos.	11	4,750		
7	PH-0001	P/F OF BIB COCK 1/2" DIA. (005) Master Made	Nos.	9	1,145		
8	PH-0004	P/F OF TEE STOP COCK (1404) 1/2" DIA. Faisal Made	Nos.	31	1,232		
9	PH-0022	P/F OF SOAP Dish 2007). Master Made	Nos.	11	525		
10	PH-0022	Providing and fixing toilet paper holder heavy duty master made with fitting material.	Nos.	9	1,200		
11	PH-0021	P/F OF TOWEL RAIL WITH BRACKETS CHROMIUM PLATED (5302). Faisal Made	Nos.	11	920		
12	PH-0115	Making Sewerage Connection To Existing Manhole Of Main Sewerage Pipe Line Including Cost Of Plugging, Dewatering, De-Silting, Making Hole In Wall Repairing And Restoration Etc Complete In Working Condition	Job	1	1,200		
13	PH-0014	P/F OF MUSLIM SHOWER (1406). Faisal Made	Nos.	9	867		
14		PPR PIPE					
	PH-0025	P/F OF PPRC PIPE 25MM DIA COMPLETE WITH ALL RESPECT. Dadex Made	205	Rft	135		
	PH-0027	P/F OF PPRC PIPE 32MM DIA COMPLETE WITH ALL RESPECT. Dadex Made	140	Rft	145		

Contractor

In-charge Tender Cell, UAF

	PH-0029	P/F OF PPRC PIPE 40MM DIA COMPLETE WITH ALL RESPECT. Dadex Made	90	Rft	230		
	PH-0031	P/F OF PPRC PIPE 50MM DIA COMPLETE WITH ALL RESPECT. Dadex Made	150	Rft	340		
	PH-0033	P/F OF PPRC PIPE 63MM DIA COMPLETE WITH ALL RESPECT.Dadex Made	310	Rft	525		
15		Valves					
		Providing and installing valves of following nominal dia,					
	PH-0111	P/F OF H&LE VALVE 1". Faisal Made	2	Nos.	900		
	PH-0112	P/F OF H&LE VALVE 1-1/2" DIA. Faisal Made	2	Nos.	1,700		
	PH-0113	P/F OF GATE VALVE 2" DIA. Kitz Made	4	Nos.	6,300		
16		Vent Cowel					
	PH-0095	P/F OF NIKASI VENT COWL 110MM.DADEX MADE:					
		4" i.d	5	Nos	190		
17		Multifloor Trap					
	PH-0020	P/F OF NIKASI P-TARP 110MM. DADEX MADE	26	Nos.	1,700		
18	NS	Glass					
		Providing and fixing best quality distortion free imported Belgium glass (beveled) mirrors 5mm thick, with hard board backing, chromium plated screws/brackets, complete in all respects as per specifications and drawings.	77	Sqft	180		
19	NS	Valves					

Contractor

In-charge Tender Cell, UAF

		Providing and installing ball valves of following nominal dia, Kitz make or approved Equaivalent, including jointing, fitting, painting, testing, complete in all respects to match with PPR and PE pipes of following diameters.					
		32 mm	6	Nos	5,106		
		63 mm	5	Nos	22,000		
20	NS	Providing and installing Gas Geyser including All types of Valves & fitting accessories, complete in all respect as per specifications and drawings.					
		35 Gallon Geyser	2	Nos.	30,000		
		6 Gallon Instant Geyser	1	Nos.	15,000		
21	NS	Clean Out					
		Providing and fixing clean out with threads ferule fixed in pipe with the help of solvent, as shown on drawing, complete in all respects as per specifications and drawings.					
		3" i.d	6	Nos.	4,450		
		4" i.d	5	Nos.	5,450		
22	NS	Gully Trap					
		Providing and making Gully trap 1'-0"x1'-0" internal size including 9" thick brick masonry (1:4), 1/2" th. Plastering (1:3) i/side, benching with PCC 1:2:4 4" th. with cement finish, including steel grating cover, chamber 6" dia RCC Pipe and connection with manhole. complete in all respect as per specifications, drawings & Engineer in charge.	5	Nos.	15,000		
23	NS	Manhole					
		Providing and constructing 2'x2' manhole with brick work including excavation, backfilling, RCC work PCC 1:2:4 cambering, plastering in 1:4 inside & outside, water proofing etc., upto 6' depth and size including ladder top slab, 18" heavy duty C.I. Manhole cover with frame "ALPINE INDUSTRIAL CON", "CME", "NPC SUPER" as shown on the drawings, complete in all respect as per specifications and drawings.	5	Nos.	25,000		
24	NS	Khurra / R.W.C.B					

Contractor

In-charge Tender Cell, UAF

		Providing and making top khurra/R.W.C.B using 3” thick plain cement concrete 1:2:4 matching with roof tiles with steel trowel finishing at desired level including curing, finishing, complete in all respect as per specifications and drawings.					
		i) 2’x2’.	3	Nos.	1,500		
Total "C"(Non Schedule items)							
Total (A+B+C)							

Contractor

In-charge Tender Cell, UAF

**ESTABLISHMENT OF SUB-CAMPUS OF UNIVERSITY OF AGRICULTURE
FAISALABAD, AT DEPALPUR - OKARA CAMPUS (HEC FUNDED)**

MULTIPURPOSE HALL

BILL OF QUANTITIES

ELECTRICAL WORKS

Sr No.	REF. Nos CH/ITEM	Item. No.	Description	Unit	Estimated Quantity	Rate (Rs)	Rate Quoted by The Contractor	Amount (Rs)
MRS, 2nd BI-ANNUAL-2018 (1st July-2018 to 31st December-2018) DISTRICT OKARA								
A) Schedule Items								
1		1.1	<u>Light Circuits.</u>					
			Supply, installation and commissioning of light circuit wiring, to be wired with 3x2.5mm sq. (1P+1N+1CPC) PVC insulated 300/500 V grade wire, manufactured by M/s. Pakistan Cables Ltd, Pioneer Cables, Newage Cables in and including cost of 3/4" dia. heavy duty PVC conduit make Beta, Shavyl or Premium, recessed in , walls, Roof slab, or on surface or above false ceiling or as required as per site conditions, all PVC conduit accessories, pull boxes, steel pull wires , complete in all respects. Each circuit shall have independent CPC. Maximum wiring of 2 light circuits can be pulled through 1" dia. PVC conduit. (CK=16)					

Contractor

In-charge Tender Cell, UAF

	[Ref: Item 10 (a-iii)/24]]		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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1 No. 1x 2.5 mm (7/0.029")	Rft	1920	15.95		
	[Ref: Item 3(iii)/24]		Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 25mm	Rft	640	47.85		
1		1.1	<u>6 Light Control by 1 MCB.</u>					
			Supply, installation and commissioning of light circuit wiring, to be wired with 3x2.5mm sq. (1P+1N+1CPC) PVC insulated 300/500 V grade wire, manufactured by M/s. Pakistan Cables Ltd, Pioneer Cables, Newage Cables in and including cost of 3/4" dia. heavy duty PVC conduit make Beta, Shavyl or Premium, recessed in , walls, Roof slab, or on surface or above false ceiling or as required as per site conditions, all PVC conduit accessories, pull boxes, steel pull wires , complete in all respects. Each circuit shall have independent CPC. Maximum wiring of 2 light circuits can be pulled through 1" dia. PVC conduit. (CK=5)					
	[Ref: Item 10 (a-iii)/24]]		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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1 No. 1x 2.5 mm (7/0.029")	Rft	1350	15.95		

Contractor

In-charge Tender Cell, UAF

	[Ref: Item 3(iii)/24]		Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 25mm	Rft	450	47.85		
1		1.1	<u>5 Light Control by 1 MCB.</u>					
			Supply, installation and commissioning of light circuit wiring, to be wired with 3x2.5mm sq. (1P+1N+1CPC) PVC insulated 300/500 V grade wire, manufactured by M/s. Pakistan Cables Ltd, Pioneer Cables, Newage Cables in and including cost of 3/4" dia. heavy duty PVC conduit make Beta, Shavyl or Premium, recessed in , walls, Roof slab, or on surface or above false ceiling or as required as per site conditions, all PVC conduit accessories, pull boxes, steel pull wires , complete in all respects. Each circuit shall have independent CPC. Maximum wiring of 2 light circuits can be pulled through 1" dia. PVC conduit. (CK=4)					
	[Ref: Item 10 (a-iii)/24]]		Supply and erection of single core PVC insulated copper conductor cables in prelaidd PVC pipe/M.S conduit G.I pipe\wooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only) i) Cost of 1 No. 1x 2.5 mm (7/0.029")	Rft	1080	15.95		
	[Ref: Item 3(iii)/24]		Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 25mm	Rft	360	47.85		
		1.2	<u>1st Light Point Controlled By One Switch</u>					

Contractor

In-charge Tender Cell, UAF

			Wiring of first light point controlled by one switch and wired with 2x1.5 mm sq.(P+N) PVC insulated wires 300/500 V grade, manufactured by M/s. Pakistan Cables Ltd, Pioneer Cables, Newage Cables in and including cost of 3/4" dia. heavy duty PVC conduit make Beta, Shavyl or Premium, recessed in wall, columns slabs or above light carrier all PVC conduit accessories, 3" high PVC junction boxes, pull boxes, steel pull wires, PVC flexible conduit from ceiling junction box to light fixture with brass chuck nut including 1.5mm sq. PVC insulated wire of colour green as CPC, M.S. sheet steel switch box 16 SWG with earth terminal and 2 coats of enameled paint, M.S. box shall be of the same size as that of 1, 2 or 3 gang flush type plate switches, excluding cost of gang type light switches 10 amps (CK=48)					
	[Ref: Item 10 (a-i)/24]		Supply and erection of single core PVC insulated copper conductor cables in prelaidd PVC pipe/M.S conduit G.I pipe\wooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only) i) Cost of 1 No. 1x 1.5 mm (3/0.029")	Rft	4125	11.7		
	[Ref: Item 3(ii)/24]		Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 20mm	Rft	2063	41.45		
		1.3	<u>Point- Points Wiring</u>					

Contractor

In-charge Tender Cell, UAF

			Same as Item No. 1.2 but Loop wiring of a light point from fist light point with 2x1.5 mm sq.(P+N) PVC insulated wires 300/500 V grade, manufactured by M/s. Pakistan Cables Ltd, Pioneer Cables, Newage Cables in and including cost of 3/4" dia. heavy duty PVC conduit make Beta, Shavyl or Premium recessed in wall, columns slabs or above light carrier all PVC conduit accessories, 3" high PVC junction boxes, pull boxes, steel pull wires, PVC flexible conduit from ceiling junction box to light fixture with brass chuck nut including 1.5mm sq. PVC insulated wire of colour green as CPC, M.S. sheet steel switch box 16 SWG with earth terminal and 2 coats of enameled paint.(CK=144)					
	[Ref: Item 10 (a-i)/24]		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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1 No. 1x 1.5 mm (3/0.029")	Rft	2760	11.7		
	[Ref: Item 3(ii)/24]		Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 20mm PVC pipe	Rft	1380	41.45		
		1.4	<u>1- 13 Amps Switch Socket</u>					

Contractor

In-charge Tender Cell, UAF

		Wiring and fixing of one 13A light plug sockets from DB to point with 2x1 core 4 mm sq. + 1x2.5mm sq. CPC, PVC wires 300/500 Volt grade, M/s. Pakistan Cables Ltd, Pioneer Cables, Newage Cables in and including cost of 1" dia. heavy duty PVC conduit, make Beta, Shavyl or Premium recessed in walls, floor, above false ceiling or as required as per site conditions, all PVC conduit make Beta accessories, pull boxes, steel pull wires, M.S. box shall be made of 16 SWG sheet steel with earth terminal having 2 coats of antirust paint, M.S. box shall be of the same size as that of 1-13Amps switch socket, including cost of 13 Amps 3 pin combined switch socket make BUSH Pakistan. Wiring shall be done directly from the MCB installed in the respective DB without any claim of circuit. (CK=16)					
	[Ref: Item 10 (a-iv)/24]	Supply and erection of single core PVC insulated copper conductor cables in prelaidd PVC pipe/M.S conduit G.I pipe\wooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x4 mm ² (7/0.036")	Rft	1920	22.95		
	[Ref: Item 10 (a-iii)/24]	Supply and erection of single core PVC insulated copper conductor cables in prelaidd PVC pipe/M.S conduit G.I pipe\wooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only) ii) Cost of 1x2.5 mm ² (7/0.029")	Rft	960	15.95		
	[Ref: Item 3(ii)/24]	Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials iii) Cost of 25 mm PVC pipe	Rft	960	47.85		

Contractor

In-charge Tender Cell, UAF

		1.5	<u>Loop-Loop- 13 Amps Switch Socket</u>					
			Same as above item No. 1.4 but loop wiring of 13A light plug socket outlet from DB to point with 2x1 core 4 mm sq. + 1x2.5mm sq. CPC, PVC wires 300/500 Volt grade, make M/s. Pakistan Cables Ltd, Pioneer Cables, Newage Cables in and including cost of 1" dia. heavy duty PVC conduit, make Beta, Shavyl or Premium recessed in walls, floor, above false ceiling or as required as per site conditions, all PVC conduit make Beta accessories, pull boxes, steel pull wires, M.S. box shall be made of 16 SWG sheet steel with earth terminal having 2 coats of antirust paint, M.S. box shall be of the same size as that of 1-13Amps switch socket, including cost of 13 Amps 3 pin combined switch socket make BUSH Pakistan. Wiring shall be done directly from the MCB installed in the respective DB without any claim of circuit.					
	[Ref: Item 10 (a-iv)/24]		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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x4 mm ² (7/0.036")	Rft	1760	22.95		
	[Ref: Item 10 (a-iii)/24]		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 and capping/G.I wire/trenches (rate for cables only) ii) Cost of 1x2.5 mm ² (7/0.029")	Rft	880	15.95		

Contractor

In-charge Tender Cell, UAF

	[Ref: Item 3(ii)/24]		Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials iii) Cost of 25 mm PVC pipe	Rft	880	47.85		
		1.6	<u>1 x 3 Pin 15 Amps Switch Socket</u>					
			Wiring and fixing of one 15A power sockets outlet with 2x 4mm ² (P+N) & 1x2.5mm ² as CPC single core cables from DB to point combined switch socket outlet creamic Base with Rocker Switch (Shuttered) Silver Point, Neon Light Heavy duty 2P+E, 20A,250V. PVC wires 300/500 Volt grade, M/s. Pakistan Cables Ltd, Pioneer Cables, Newage Cables in and including cost of 1" dia. heavy duty PVC conduit, make Beta , Popular recessed in walls, floor, above false ceiling or as required as per site conditions, all PVC conduit make Beta, Shavyl or Premium accessories, pull boxes, steel pull wires, M.S. box shall be made of 16 SWG sheet steel with earth terminal having 2 coats of antirust paint , M.S. box shall be of the same size as that of 1-20Amps switch socket, including cost of 15 Amps 3 pin combined switch socket make BUSH Pakistan. Wiring shall be done directly from the MCB installed in the respective DB without any claim of circuit.(CK=6)					
	[Ref: Item 10 (a-iv)/24]		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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x4 mm ² (7/0.036")	Rft	480	22.95		

Contractor

In-charge Tender Cell, UAF

	[Ref: Item 10 (a-iii)/24]		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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x2.5 mm (7/0.029")	Rft	240	15.95		
	[Ref: Item 3(ii)/24]		Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 25 mm	Rft	240	47.85		
		1.8	Fan Points Conforming to same specifications as mentioned above for Item No. 1.2. but wiring of ceiling fan points, including cost of MS hook box circular type having MS hook 16 mm (5/8") dia make Unique, Beta to be casted in RCC slab, MS switch board of appropriate size to accommodate dimmer, complete in all respects, including dimmer provided by the Fan manufacturer.(CK=88)					
	[Ref : Item 49/24]	i	Supply and erection of 3/8" (10 mm) dia M.S. bar fan hook placed at the time of casting of slab.	Each	31	39.45		
	[Ref : Item 14(ii)/24]	ii	Back Box (7"x4")	Each	31	221.90		
	[Ref: Item 10 (a-i)/24]	iii	Supply and erection of single core PVC insulated copper conductor cables in prelaid PVC pipe/M.S conduit G.I pipe\wooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 1.5 mm (3/0.029")	Rft	2945	11.7		

Contractor

In-charge Tender Cell, UAF

	[Ref: Item 3(ii)/24]	iv	Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 20mm	Rft	1472.5	41.45		
		1.8	<u>Wall Bracket Fan Points</u> Conforming to same specifications as mentioned above for Item No. 1.2. but wiring of Wall bracket fan points, including cost of MS hook box MS switch board of appropriate size to accommodate dimmer, complete in all respects, including dimmer provided by the Fan manufacturer.(CK=19)					
	[Ref: Item 10 (a-i)/24]	iii	Supply and erection of single core PVC insulated copper conductor cables in prelaid PVC pipe/M.S conduit G.I pipe\wooden strip batten/wooden casing and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 1.5 mm (3/0.029")	Rft	1710	11.7		
	[Ref: Item 3(ii)/24]	iv	Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 20mm	Rft	855	41.45		
		1.9	<u>Exhaust Fans Points</u> Conforming to same specifications as mentioned above in Item No. 1.2 but wiring of exhaust fan point excluding cost of hook box but including cost of 10 A switch make Clipsal M.S box 16 SWG with earth terminal, 2 coats of antirust point, all fixing accessories, 1-5 Amps ceiling rose and including one switch of 10 amps switch. (CK=11)					

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	[Ref: Item 10 (a-i)/24]		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 and capping/G.I wire/trenches (rate for cables only) i) Cost of 1x 1.5 mm (3/0.029")	Rft	760	11.7		
	[Ref: Item 3(ii)/24]		Supply and erection of PVC pipe for wiring recessed in wall including inspection boxes pull boxes, hooks, cutting jharries, and repairing surface, etc, complete with all specials ii) Cost of 20mm	Rft	380	41.45		
2			<u>L.T. Power Cables</u>					
			Supply at site, installation, testing and commissioning of PVC insulated non armoured copper conductor cable 600 / 1000 Volt grade manufactured by any one of the manufacturers M/s. Pakistan Cables Ltd, Pioneer Cables, Newage Cables in prelaid conduits / trenches to be installed as per routes shown on drawings including cost of all necessary materials, connections, identification tags, cables lugs properly crimped at both ends for the following sizes complete in all respects. Actual length of cables to be installed shall be practically measured at site by the Contractor, duly authenticated by the employers electrical engineer before placing the order with the manufacturer, however, approximate length of cables are shown herewith. Payments shall be made as per actual length installed.					
	-	2.1	<u>4 Core Cable PVC/PVC</u>	-	-	-	-	
	13-d-(iii)/24		a) 4 core 50mm sq.	Rft	150	1014.95		

Contractor

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	13-c-(vii)/24		a) 4 core 25mm sq. (equivalent 19/0.064")	Rft	200	504.55		
		2.2	<u>Circuit Protective Conductor (CPC)</u>					
	12-(i)/24		a) 1 core 16mm sq.	Rft	200	77.90		
	12-(ii)/25		b) 1 core 25mm sq.	Rft	150	129.55		
3			<u>PVC Conduit</u>					
		3.1	Supply at site of PVC conduit heavy duty make Beta, Shavyl or Premium to be concealed in RCC slabs, walls, floor, columns above false ceiling or as required as per site conditions including cost of all PVC conduit accessories, steel pull wires, complete in all respects.					
	3(vi)/24		e) 2" Did PVC Conduit	Rft	500	84.25		
		3.2	<u>PVC PIPE FOR AUDIO SYSTEM</u>					
			Supply and erection of PVC pipe for wiring recessed in walls, including inspection boxes, pull boxes, hooks, cutting harries, and repairing surface, etc., complete with all specials.					
	3-(iii)/24	a	25 mm i/d	Rft	450	47.85		
		3.2	<u>PVC PIPE FOR TELEPHONE SYSTEM</u>					
			Supply and erection of PVC pipe for wiring recessed in walls, including inspection boxes, pull boxes, hooks, cutting harries, and repairing surface, etc., complete with all specials.					
	3-(iii)/24	a	25 mm i/d	Rft	550	47.85		
		3.3	<u>PVC PIPE FOR CABLE TV SYSTEM</u>					
			Supply and erection of PVC pipe for wiring recessed in walls, including inspection boxes, pull boxes, hooks, cutting harries, and repairing surface, etc., complete with all specials.					

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	3-(iii)/24	a	25 mm i/d	Rft	500	47.85		
			Total A-(Schedule Items)=					
B) Non-Schedule Items.								
1			Switch & Sockets.					
	Approved NS	1.1	i) Providing and Installation of PVC Sheet Back Box 7.5 cm x 7.5 cm (6"x3") (Non Metallic) China Made	Each	44	78.00		
	Approved NS	1.2	i) Providing and Installation of PVC Sheet Back Box 7.5 cm x 7.5 cm (3"x3") (Non Metallic) China Made	Each	100	120.00		
	E-1053	1.3	Supply & fitting of 10A, 1 Gang 1 Way Switch Clipsal Made Bush / Orange made, As per approval of Engineer Incharge.	Each	4	248.00		
	E-1048	1.4	Supply & fitting of 10A, 2 Gang 1 Way Switch Clipsal Made Bush / Orange made, As per approval of Engineer Incharge.	Each	6	366.00		
	E-1050	1.5	Supply & fitting of 10A, 4 Gang 1 Way Switch Clipsal Made Bush / Orange made, As per approval of Engineer Incharge.	Each	14	669.00		
	E-1051	1.6	Supply & fitting of 10A, 5 Gang 1 Way Switch Clipsal Made Bush / Orange made, As per approval of Engineer Incharge.	Each	21	777.00		
	E-1052	1.7	Supply & fitting of 10A, 6 Gang 1 Way Switch Clipsal Made Bush / Orange made, As per approval of Engineer Incharge.	Each	44	989.00		
	E-1057	1.10	Supply & fitting of 13A switch socket Clipsal Made	Each	68	561.00		
	E-1059	1.14	Supply & fitting of 15A switch socket Clipsal Made	Each	8	610.00		
2			<u>Light Fittings And Fixtures</u>					

Contractor

In-charge Tender Cell, UAF

		2.1	<u>LIGHTS</u>					
	E-1018	i	Supply & fitting of LED Down Light 18 Watts Surface mounted DN027C LED CW 6500K Philips Made	Each	178	2703		
	E-1009	i	Supply & fitting of LED flood light 50 watts IP65 BVP 135 Philips Made	Each	8	7665		
	Appendix 'c' Page No-1	ii	Supply and erection of 100 Watts LED high bay Lights with hanging arrangements, flexible wire including connection from ceiling rose etc complete in all respect as approved by the engineer make Phillips, Omega or Sunlight.	Each	45	32078		
	E-1054	2.2	Supply & fitting of Fan speed controller switched Clipsal Made	Each	31	1242.00		
	E-1045		Supply & fitting of ceiling Fan 56" copper (Energy Efficient Pak Fan Deluxe Model as approved by PEECA)	Each	31	4498		
	Approved NS		Providing and Installation of PVC Fan Box Including Rod Popular Made.	Each	31	150		
		2.4	<u>Exhaust Fans</u>					
			Supply & fitting of Exhaust Fan 12" copper plastic body (Energy Efficient Model) G.F.C or Equivalent Made NEECA/PEECA Approved					
	E-1021	i	12" dia (Plastic Body).	Each	8	3118		
		2.3	<u>Wall Bracket Fan</u>					
	Approved NS		Providing and installation of wall bracket fan 18" Size Lahore Fan. (Energy Efficient Fan as approved by PEECA)	Each	18	4101		
3			<u>L.T. Switchgear</u>					
			<u>Distribution Board Concealed</u>					

Contractor

In-charge Tender Cell, UAF

			Supply, installation, connection of wires cables, and commissioning of distribution boards concealed type or to be installed on wall, made of 16 SWG M.S. sheet with hinged door, handle, catcher, earthing bar and neutral link with necessary holes, nuts, bolts, washers, earthing of DB door with braided copper internal wiring , PVC cable glands for incoming and out going wires/cables, 2 earthing terminals designation label engraved on plastic sheet of appropriate size to be pasted on the front side of DB, 3 phase indication lamps of colour red, yellow, blue, make Hager, Legrand (France) SV122 SV128 SV126 moulded case circuit breaker with overload and short circuit protection (MCCB) to be installed on the incoming side, Icu not less than 10 KA , and for miniature circuit breakers Icu 6 KA make G.E (Europe & USA), M.G., Legrand (France), ABB (Italy) Terasaki (Japan) having overload and short circuit protection, including cost of all necessary fixing accessories complete in all respects make Tariq Electric, Billal Engineering, PEL, Techno Engineering.					
Appendix 'c'	3.1	<u>DBLP-1G,DB-HALL</u> 01 No. Incoming 75 Amp MCCB TP, RC=10 kA 24 No. Outgoing 10/16/20 Amp MCB SP, RC=6 kA a) Volt Selector Switch b) 1 No Digital voltmeter c) 3 No indication lights 220 Volt d) 3 Ph N & Earth copper busboards e) Internal wiring & Line-up terminal,Cable Numbering Sleeves etc f) Panel steel grid painted along with locking arrangement	Each	2	57582			

Contractor

In-charge Tender Cell, UAF

	Appendix 'c' Page No-3	1.4	MPB (Main Panel Board- WAPDA) 01 No. Incoming 150 Amp MCCB TP, RC=35 kA 03 No. Outgoing 75 Amp MCCB TP, RC=16 kA a) 3 No Digital ammeter b) 3 No Digital voltmeter c) 3 No indication lights 220 Volt d) 3 Nos. Current Transformer 300/5A e) 300 Amp. 3 Ph N & Earth copper busboards f) Internal wiring & Line-up terminal, Cable Numbering Sleeves etc g) Panel steel grid painted along with locking arrangement h) Cost Includes Brass Cable glands, Thimbles, Nut bolts, Installation, Termination and Commissioning	Each	1	211573		
4		4.1	<u>Earthing System</u>					
	Appendix 'c' Page No-4		Supply, installation, commissioning and testing of the earthing system including cost of the following 3 meter long of 5/8"dia tinned copper electrodes. up-to water level including cost of boring and lowering complete with clamp and 2 X 25mm ² stranded copper conductor from copper rod to ground surface in 1-1/2" uPVC Pipe class D with watering cap manhole with cover as per detail complete in all respects. and the resistance should up to 1-3 Ohms. the installation / test should be conducted in presence of engineer incharge.	Job	1	44138		
		4.2	<u>Earth Connecting Point</u>					

Contractor

In-charge Tender Cell, UAF

	Appendix 'c' Page No-5		Supply, installation of earth connecting points consisting of copper plate 12" long, 2" wide and 1/2" thick to be installed as and where shown on drawings on the wall of the trenches, complete with fixing arrangement, brass nuts bolts complete in all respects to facilitate connections of Incoming copper strips and Outgoing CPC.	Nos.	1	3278		
		4.3	<u>Manhole</u>					
	Appendix 'c' Page No-6		Constructing of 2'x 2'x 2.5' (internal size) including earth work 4" thick PCC 1:4:8 9" thick first class burnt brick work in 1:5 mortar, plastered inside in 1:5 cement sand and 4" thick RCC cover with grade 40 reinforcement.	Nos.	1	7238		
5			<u>Telephone System</u>					
		5.2	<u>Telephone Outlet</u>					
	Approved N.S		Supply / Erection of Bush made data single socket (RJ-11) including 16 SWG back box of 3"x3" size complete in all respect.	Each	2	778.48		
		5.3	<u>Telephone Cables</u>					
			Providing & laying multi pairs (Twisted) PVC insulated / underground cable of best quality (siemens, Germany, or Best imported as per approved sample) in pre-laid PVC recessed conduit or fixed cable duct/ Tray as per satisfaction of the Electrical Engineer.					
	Approved N.S	a	4-5 Pair Cable CAT-6/UG/PVC (0.6 mm sq) (From DP to each Room)	Rft	300	21.66		
6			<u>TV Cable System</u>					
		6.2	<u>TV Socket</u>					
			Supply & erection of Bush/Clipsal series. TV Socket 9.5mm Direct					
	Appendix 'c' Page		TV Socket 9.5mm Direct	Each	3	964		

Contractor

In-charge Tender Cell, UAF

	No-7							
		6.3	<u>TV Cables</u>					
			Providing and laying coaxial PVC insulated TV Antina cable 50 ohms of best quality (impored) in pre-laid PVC recessed conduit or fixed cable duct as per satisfaction of the Electrical Engineer.					
	Appendix 'c' Page No-8	a	Coaxial Cable RG-6 (From JB to each room)	Rft	600	62		
		6.4	<u>TV Junction Box</u>					
	E-1079		P/F of MS Sheet Box 16 SWG including cutting , molding, welding, painting with powder coated paint (3-Coats) with lock and key arrangement complete in all respects	Each	1	2100		
6			<u>Audio System</u>					
	Appendix 'c' Page No-9	1	Supply and installation of Wall Speaker with 5W~15W selection mode. Make TOA.	Each	8	17548		
	Appendix 'c' Page No-10	2	Supply and installation of Goosenect Dynamic Microphone. Make TOA.	Each	1	20402		
	Appendix 'c' Page No-11	3	Supply and installation of Amplifer - 240 Watts with 3 Mic Input and 2x AUX input. Make TOA.	Each	1	90739		
	Appendix 'c' Page No-12	3	Wiring of Each P.A Points, wired with PA Speaker Cable, 2 x 1.23mm, Bare CU Type, manufactured by Ventilux Inc	Rft	800	75		
			Total B(Non-Schedule Items)=					
			Total (A+B)=					

Contractor

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