

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

PUNJAB BUILDING DEPARTMENT
TENDER/CONTRACT DOCUMENTS

Name of Work:- _____

Name of Contractor: - _____

Estimated Cost of Work Rs:- _____

Amount of Earnest Money Rs:- _____

Deposit at Call No:- _____

Treasury Challan No:- _____

Time Limit:- _____

Contractor

Executive Engineer

Stereo LB No, 386 (revised)

Agreement No.-----

Stereo I.B No. 389 (revised)

Stereo I.B No. 28(revised)

Stereo I.B No. 29(revised)

UNIVERSITY OF AGRICULTURE, FAISALABAD**ITEM RATE TENDER & CONTRACT FOR WORKS**

- | | | |
|---|------------------------------------|---|
| 1 | Name of work | 1. Extension of 2nd Floor, Finishing Works of Confucius Institute at University of Agriculture, Faisalabad (Package-01)
2. Remaining & Finishing Works of Women Sports Complex (Squash Courts, Gymnasium, Swimming Pool, Multipurpose Hall) at University of Agriculture, Faisalabad
3. External Development of Boys (Jinnah) Hostel at University of Agriculture, Faisalabad |
| 2 | Estimated cost | For (01) RS. 190.776M/-, for (02)RS. 165.281M/-, for (03) RS. 108.686M/- |
| 3 | Time for completion | For (01) 08-Months, for (02) 05-Months, for (03) 05-Months |
| 4 | Amount of Bid Security | PKR----- Million (s) |
| 5 | Issued to | ----- |
| 6 | Pre-tender conference | ----- |
| 7 | Dead Line for submission of Tender | 22-09-2022 up to 11:00AM----- |
| 8 | Opening of Tender | 22-09-2022 up to 11:30AM----- |
| 9 | Issued by | Executive Engineer, University of Agriculture, Faisalabad. |

Signature:-----

Date:-----

OFFICE STAMP

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

Contractor**Executive Engineer**

GENERAL DIRECTIONS FOR THE GUIDANCE OF THE TENDERER

1. These directions are provided to assist the tenderer in preparing and submitting his tender. The tender shall contain all information and data required to be furnished and shall be prepared and submitted in accordance with the instructions set forth herein.
2. All necessary documents, such as copies of specifications (excluding standard specification books, MRS, **2nd Bi-Annual 2022 District Faisalabad**), contract documents, including bill of quantities, estimated scheduled rates and any other documents required in connection with the preparation of tender or execution of works, signed by the engineer-in-charge will accompany the tender form and the cost of such annexed documents will be reflected in the cost of the tender form.
3. The tenderer will not be reimbursed for any costs of any kind, whatsoever, incurred in connection with the preparation and submission of his tender.
4. No single tender shall include more than one work. A tenderer who wishes to tender for two or more works shall submit tender for each work, separately.
5. The memorandum of work tendered for, and the schedule of materials and equipment to be supplied by the engineer-in-charge and the rates at which they are to be charged for (annexed hereto) shall be filled in the office of the engineer-in-charge before the tender form is issued. At this stage the tenderer should ensure that the tender form so issued is complete in all respects.
6. The tenderer shall note that the ultimate responsibility for the quality of work and its conformity with the specifications and drawings rests solely with the successful bidder whose tender is accepted.
7. The tenderer shall, at his own expense, inspect and examine the site and surroundings and obtain for himself, on his own responsibility, all information that may be necessary for preparing the tender and entering into contract, and shall determine and satisfy himself by such means as he may consider necessary or desirable as to all matters pertaining to the tender. The tenderer shall also satisfy himself before submitting his tender as to the nature of grounds, hydrological and climatic conditions, the form and nature of the site, the nature and lay out of the terrain, the availability of labour, water, electric power and transportation facilities in the area. The tenderer shall specially investigate into the sources of materials to be used for the works and satisfy himself about the quality and quantities of materials available for the completion of the work and the means of access to the site, the accommodation he may require and, in general, shall himself obtain all necessary information, as to the risks, contingencies and other circumstances which may influence or affect his tender. The engineer-in-charge shall not assume any responsibility regarding information gathered interpretation or deduction, which the tenderer may arrive at, from the date that may be furnished with the contract documents.
8. (a) The tenderer shall fill up the Bill of Quantities and indicate the percentage rate above or below the MRS of rates for the "MRS items" on which he is willing to undertake each item of work. No premium will be quoted by the contractor against non-MRS/item rates, for which the rate and amount has already been filled in by the engineer-in-charge in the bid schedule.
- (b) In case tenders are called on item rate basis, the tenderer shall quote his own unit rate in the Bill of quantities on which he is willing to undertake each item of work.

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

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

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tenders and the expiration of the period of tender validity i.e. sixty (60) days as specified by the tenderer in the Form of Tender may result in the forfeiture of the tender security.

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

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charge may ask tenderers individually for clarification of their tenders, including breakdowns of unit rates. The request for clarification and the response shall be in writing or by cable, but no change in the price or substance of the tender shall be sought, offered or permitted except as required to confirm the correction of arithmetical errors discovered by the Engineer-in-charge during the evaluation of the tender.

- 26 (A) In case the total tendered amount is less than 5% of the approved estimated (DNIT) amount, the lowest bidder will have to deposit additional performance security from the Scheduled Bank ranging from 5% to 10% as under, within 15 days of issuance of notice or within expiry period of bid, whichever is earlier.

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

27. The Engineer-in-charge shall have the right of rejecting all or any of the tenders without assigning any reason thereof. The Engineer-in-charge will not be bound to award the contract to the lowest or to any other tenderer.
28. The unit rates and prices entered in the bid schedule will be the rates at which the contractor will be paid (subject to the adjustment specified in clause 55 of the annexed conditions) and shall be deemed to include all costs of performing the work, including income tax, super tax and/or other charges, duties and taxes of the Government, autonomous, semi-autonomous and local bodies, profits and costs of accepting the general risk, liabilities and obligations set forth in or implied from the contract.
29. Prior to the expiration of the period of tender validity (60 days) prescribed in the Tender Form or any extension thereof that may have been granted by the tenderer, the Engineer-in-charge will notify the successful tenderer by cable and confirm in writing by registered letter that his tender has been accepted. This letter of acceptance shall name the sum which will be paid in consideration of the execution, completion and maintenance of the works as prescribed in the contract, (hereinafter called the contract price). The notification of award will constitute the formation of the contract.
30. At the time, the Engineer-in-charge notifies acceptance of the tender to the tenderer he will send the tenderer the Form of Agreement provided in the tender documents, incorporating all agreements between the parties. Within fifteen (15) days of receipt of the Agreement, the successful tenderer shall furnish the performance security (10% of the Contract Price) and sign the contract in the presence of the Engineer-in-charge.
31. After the successful tenderer has signed the contract furnished adequate performance security the Engineer-in-charge will notify to the unsuccessful tenderers that they were unsuccessful.
32. The completion period will be reckoned from the date of delivering the award or the handing over of the site to the contractor, whichever is later.
33. A copy of the contract agreement may be obtained by the contractor at his own cost.

Contractor

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TENDER FOR WORK

To
The Executive Engineer

Dear Sir,

I/We.....

(Name of the contractor)

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

(Name of the work)

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

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

2. As security for the due performance of the undertaking and obligations of this tender, I/We submit herewith a deposit at call receipt No..... dated. In the amount of Rs.....(Rupees.....from.....the.....BankBranchdrawn in your favour or may payable to you as earnest money, the full value of which will be absolutely forfeited to Government,, without prejudice to any other rights or remedies of the said *Government*, should I/We withdraw or modify' the tender within its validity period of sixty (60) days, following the date of receipt of tender.
- 3.I/We understand that if my/our tender is accepted, the 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 hereto, in the sum equal to 10 (ten) percent of the cost of the work in same form sum equal to 10 (ten) percent of the cost of the work in the same form and on the same condition as are prescribed by and to the satisfaction of the Engineer-in-charge.
5. I/We also agree that when materials and/or equipment for the work are provided by the t, the rates to be paid for them shall be as provided in Appendices annexed hereto.

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

Thanking you,

Yours faithfully,

(Signature of Tenderer)

Dated thisDay

NAME.....

Of20...

*Address.....

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

(Signature of Executive Engineer)

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

Contractor

Executive Engineer

MEMORANDUM OF WORK

- | | | |
|----|---|--|
| a) | General Description | <p>1. Extension of 2nd Floor, Finishing Works of Confucius Institute at University of Agriculture, Faisalabad (Package-01)</p> <p>2. Remaining & Finishing Works of Women Sports Complex (Squash Courts, Gymnasium, Swimming Pool, Multipurpose Hall) at University of Agriculture, Faisalabad</p> <p>3. External Development of Boys (Jinnah) Hostel at University of Agriculture, Faisalabad</p> |
| b) | Estimated Cost | <p>RS. 190.776M/-, RS. 165.281M/-, RS. 108.686M/-</p> |
| 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) | <p>Rs.3,815,520/-Rs.3,305,620/- Rs. 2,173,720/-</p> |
| d) | Percentage of security deposit to be retained forms the bills. | |
| | i) On the amount of work done up to Rs.5.0 million | Ten (10) percent |
| | ii) On the amount of work done beyond Rs.5.0 million. | Five (5) percent |
| e) | Minimum amount of interim running bills | Rupees five million (Rs.----- only |
| f) | Mobilization period | Fifteen (15) calendar days |
| g) | Time allowed for completing the work after the expiry of mobilization period | -----calendar months |
| h) | Amount of performance security in the form of Bank Guarantee (see contract conditions clause 7 and General direction 26 (a) | Five (05) percent of the accepted tender price in the case of tenders with cost of exceeding Rs.50.00 million and as per general condition 26(a) for all tenders. |
| i) | Period of maintenance (after the date of issuance of certificate of completion) | Twelve (12) calendar months. |

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SUMMARY OF COST

1. Extension of 2nd Floor, Finishing Works of Confucius Institute at University of Agriculture, Faisalabad (Package-01)

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

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

CIVIL WORKS: (GREY STRUCTURE)

Item #	MRS Ref#	Description of Items.	Unit	Quantity	Rate Quoted by the Contractor	Amount (PKR)
		SCHEDULE ITEMS:				
1	Ch.3/21 (a-ii) (P.30)	<u>EARTH WORK:</u> Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m). b) in ordinary soil.	Per Cft	100.00		
2	Ch.6/5(i) (P.41)	<u>PLAIN CEMENT CONCRETE (1:4:8) :</u> Providing and laying of Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1:4:8				
		a) Ground Floor	Per Cft	10.00		
		b) First Floor	Per Cft	10.00		
	+Ch.6/16(a) (P.45)	c) Second Floor	Per Cft	1716.00		

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3	Ch. 6/2 (P.41)	<u>DRY RAMMED STONE BALLAST:</u> Providing and laying of dry rammed stone ballast, 1½" to 2" (40 mm to 50 mm) gauge.				
		a) Second Floor	Per Cft	500.00		
4	9/46 (ii) (P.66)	<u>WATER PROOFING MEMBRANE ON WALLS AND FLOOR:</u> Providing and applying torch-on plain water proofing bitumenous membrane of specified thickness (made of Roof-Grip/EuroBit) duly lapped/connected by heating with Torch over ps-6 primer i/c preparation/smoothen the surface complete in all respect as approved and directed by the Engineer Incharge. ii) 4 mm thick	Per Sft	4620.00		
5	Ch.26/37(i) i) (P.214)	<u>POLYTHENE SHEET :</u> Supplying and laying polythene sheet over D.P.C. walls, under floors and on roofs, etc. 500 gauge (.005" thick)	Per Sft	4620.00		
6	Ch.6/5(f) (P.41)	<u>PCC 1:2:4 UNDER FLOORING:</u> Providing and laying of cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate) :- complete in all respects, Ratio 1:2:4				
		a) Ground Floor	Per Cft	10.00		
		b) First Floor	Per Cft	10.00		
	+Ch.6/16(a) (P.45)	c) Second Floor	Per Cft	1167.00		

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7	Ch.6/6a (iii-3) (P.42)	<u>REINFORCED CEMENT CONCRETE WORK</u> :Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-				
		Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members, complete in all respects:- Type C (nominal mix 1: 2: 4)	Per Cft	100.00		
8	Ch.6/6a (i-2) (P.42)	<u>REINFORCED CEMENT CONCRETE WORK</u> : Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-				
		i) Reinforced cement concrete in roof slab, beams, lintels, girders, stairs and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1: 1½: 3)				
		a) Ground Floor	Per Cft	72.00		
	+6/6 (d)	b) First Floor	Per Cft	10.00		

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	+6/6 (d+d)	c) Second Floor	Per Cft	128.00		
	Ch.6/6a (ii-b) (P.42)	Reinforced cement concrete in retaining/Shear walls laid in situ or precast laid in position, or prestressed members cast in situ (Form work on both sides) , complete in all respects : Type B (nominal mix 1: 1½: 3)				
		a) Ground Floor	Per Cft	198.00		
9	Ch.6/12 (c) (P.45)	<u>STEEL REINFORCEMENT:</u> Supply and Fabrication of mild steel reinforcement for cement concrete including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars). Deformed bars (Grade-60)	Per Kg	640.00		
10	Ch.7/5(i) (P.53)	<u>BRICK MASONRY:</u> Providing, laying and jointing pacca brick work in buildings using first class new bricks, raking of joints and curing in ratio 1:5 cement, sand mortar as per drawings and specifications, complete in all respects.				
		a) Ground Floor	Per Cft	100.00		
	+7/6 (P.53)	b) First Floor	Per Cft	100.00		
	+7/6 (P.53)	c) Second Floor	Per Cft	1000.00		
11	11/9 (b) (P.76)	<u>INTERNAL WALL PLASTER :</u> Providing and laying of Cement plaster ratio 1:4 upto 20' (6.00 m) height:- ½" (13 mm) thick, complete in all respect.				
		a) Ground Floor	Per Sft	100.00		

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	11/28 (P.78)	b) First Floor	Per Sft	100.00		
	11/28 (P.78)	c) Second Floor	Per Sft	1644.00		
12	11/8 (b)+ 11/32 (ii) (P.76 & 78)	<u>1" THICK GROOVE PLASTER EXTERNAL SIDE :</u> Providing and laying of ½" (13 mm) thick Cement sand plaster (1:3) (cement and sand) , and providing ½" (13 mm) thick grooved cement sand plaster 1:3 over existing plastered and roughened surface including making of 1/2" deep grooves (Horizontally and vertically) upto 20' (6.00 m) height , complete as per drawings and as directed by the Engineer-in-charge.				
		a) Ground Floor	Per Sft	100.00		
	11/28 (P.78)	b) First Floor	Per Sft	100.00		
	11/28 (P.78)	c) Second Floor	Per Sft	990.00		
13	11/9 (c) (P.76)	<u>EXTERNAL WALL PLASTER :</u> Providing and laying of ¾" (20 mm) thick Cement Plaster ratio 1:4 on External walls upto 20' (6.00 m) height, complete in all respect.				
		a) Ground Floor	Per Sft	100.00		
	11/28 (P.78)	b) First Floor	Per Sft	100.00		
	11/28 (P.78)	c) Second Floor	Per Sft	990.00		

Contractor

Executive Engineer

14	12/17 (ii & iii) (P.84)	<u>M.S</u> <u>CHOWKAT:</u> Providing and fixing 2" wide MS Chowkat single/double rebate made of 16 SWG MS sheet pressed/ welded/ supported with M.S. flat 1-1/4"x1/8" i/c 6" long M.S. Flat 1"x1/8" hold fasts (6-Nos) welded/ screwed, punching of lock hole covered with MS Box, coating with anti rust paint including filling with cement sand mortar (1:8) and embedding hold fast in cement concrete (1:2:4), complete in all respect as approved and directed by Engineer Incharge.				
		a) 10.50 " wide	Per Sft	60.00		
		b) 5.50 " wide	Per Sft	18.00		
		TOTAL AMOUNT (SCHEDULE ITEMS) = PKR.				
		G.TOTAL AMOUNT (PKR)				

Contractor

Executive Engineer

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

CIVIL WORKS: (FINISHING)

Item #	MRS Ref#	Description of Items.	Unit	Quantity	Rate Quoted by the Contractor	Amount (PKR)
		SCHEDULE ITEMS:				
1	Ch.4/13 (P.34)	<u>DISMANTLING OF BRICK MASONRY:</u> Dismantling brick work in lime or cement mortar, including disposal of salvage materials upto any lift & lead, complete in all respects as directed by the Engineer-in-charge.	Per Cft	100.00		
2	Ch.4/19(a) (P.35)	<u>DISMANTLING OF PCC:</u> Dismantling cement concrete plain 1:4:8, including disposal of salvage materials upto any lift & lead, complete in all respects as directed by the Engineer-in-charge.	Per Cft	100.00		
3	Ch.4/20 (P.35)	<u>DISMANTLING OF R.C.C:</u> Dismantling cement concrete reinforced, separating reinforcement from concrete, cleaning and straightening the same and disposal of salvage materials upto any lift & lead, complete in all respects as directed by the Engineer-in-charge.	Per Cft	236.00		

Contractor

Executive Engineer

4	Ch.26/43 (P.214)	<u>ANTI-TERMITE TREATMENT :</u> Spraying anti termite proofing by using liquid FMC Biflex 2.5%EC Mixing Ratio 1:50=137-Sft or using liquid MIRAGE Ali Akbar /RANGERS Auriga 5% SC Mixing Ability-HEXTAR Ratio 1:110=205-Sft or any other equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect .as approved by the Engineer Incharge.	Per Sft	5000.00		
5	10/40(a) (P.72)	<u>MARBLE STRIP:</u> Providing and fixing marble strip of any shade for dividing the concrete/mosaic flooring into panels a) Size 1½" x 3/8 " (40 x 10 mm)	Per Rft	500.00		
6	25/64 (P.210)	<u>STAIN LESS STEEL STAIR RAILING:</u> Providing and fixing 2'-9" high stair railing comprising of non magnetic (304) Stain less steel 2" dia pipe railing of 18 SWG welded with vertical posts of 2" dia stainless steel round/ Squar pipe @ 2-ft c/c fixed on alternate steps with 3" long steel screws and brass rawal plugs , 3-Nos diagonal stainless steel pipes of 1/2" dia passes through gables fixed on vertical post, i/c stainless steel welding, fixing & polishing complete in all respects as approved and directed by the Engineer Incharge.	Per Rft	416.00		
7	25/65 (P.210)	<u>WALL MOUNTED S.S RAILING PIPE:</u> Providing and fixing 2" dia 18 SWG non-magnetic Stain less steel pipe (304) wall mounted hand rail comprising fixed with 2" long steel bracket with screws i/c the cost of hardware etc. & stainless steel welding & polishing complete in all respects as approved and directed by the Engineer Incharge.	Per Rft	426.00		

Contractor

Executive Engineer

8	25/35 (P.205)	<u>M.S RAILING:</u> Providing and fixing terrace railing of 2" (50 mm) i/d conduit pipe 16 SWG, welded with 5/8"x5/8" (16x16 mm) square bar 2.75 ft. (838 mm) high fixed at 5" (125 mm) centre to centre, in reinforced cement concrete slab with suitable arrangement, complete in all respects, as per design and drawing.	Per Rft	107.50		
9	12/07 (a) (P.81)	<u>DEODAR WOOD DOORS AND WINDOWS:</u> Providing and fixing 1st class solid wood wrought joinery in panelled or panelled and glazed doors and windows of specified thickness with 1" thick solid wood panels with step and 1-1/2"x2-1/2" beadings all around the panels i/c the cost of Tower bolt and handles complete in all respect (Excluding the cost of sliding bolt, lock and chowkats (frame), etc.) as approved and directed by the Engineer Incharge. complete in all respect as per drawings.				
		b) 1½" thick (40 mm)	Per Sft	150.00		
10	12/52 (P.88)	<u>SOLID FLUSH DOORS:</u> Providing and fixing 1½" (40 mm) thick solid flush door shutter (Approved Factory Manufactured) with commercial ply (5 mm thick) on both sides double pressed and deodar wood lipping 2"x3/8" (50 mm x 10 mm) around shutter including chromium plated fitting, iron hinges with aluminium kick plate 22 SWG on both sides & finger plate complete in all respect and as directed by the Engineer.	Per Sft	3881.00		

Contractor

Executive Engineer

11	25/52 (P.208)	<u>ALUMINIUM WINDOWS AND VENTILATORS:</u> Providing and fitting all types of glazed aluminium windows of anodised bronze colour partly fixed and partly sliding/ fixed using deluxe sections of approved manufacturer having frame size of 100 x 20 mm (4"x¾") and leaf frame sections of 50 x 20 mm (2"x¾"), all of 1.6mm thickness including 5 mm thick imported tinted glass with rubber gasket using approved standard latches, hardware etc., as approved by the Engineer in-charge.	Per Sft	5712.00		
12	25/53 (P.208)	<u>ALUMINIUM FLY SCREEN :</u> Providing and fixing Aluminum Fly screen comprising of Fiber/ Aluminum wire guaze (Malasian) fixed in aluminum frame of approved manufacturer brownze Colour/ powder coated of size 1-1/2" x 1/2" and 1.6mm thick with rubber gasket i/c cost of Hardwares as approved and directed by the engineer incharge. complete in all respect.	Per Sft	2856.00		
13	25/59 (P.209)	<u>M.S GRILL :</u> Providing and fixing M.S. grill fabricated with MS Square polished Vertical/horizontal Bars of specified size @ 4" c/c ' passed through punched holes in MS Patti of 1-1/4"x1/8" i/c the cost of 1-1/4"x1/8" MS patti for Frame of windows and painting 3 coat complete in all respect as approved and directed by the Engineer Incharge. 3/8" Squar Bars	Per Sft	5156.00		

Contractor

Executive Engineer

14	25/51 (P.208)	<u>ALUMINIUM DOORS:</u> Providing and fixing all types of partly fixed and partly openable 2 mm thick glazed anodised bronze colour aluminium doors, using deluxe section of M/s Al-Cop or Pakistan Cables, having chowkat frame of size 40 x 100 mm (1½" x 4") and leaf frame of 60x40mm (2½"x1½") wide sections including the cost of ¼" (5 mm) thick imported tinted glass with aluminium triangular gola and rubber gasket to support the glass and leaf edging, using approved standard fittings, locks, 3" (75 mm) wide long handles etc., and hardware any required as approved by the engineer in-charge. All of 2mm thick sections.	Per Sft	1377.00		
15	12/67 (P.91)	Providing and fixing autotomatic hydraulic operated door closer imported heavy duty complete in all respect as approved and directed by the Engineer Incharge.	Each	30.00		
16	12/68 (P.91)	Providing and fixing heavy duty 3mm thick SS Plate, die-cast metal autotomatic hydraulic operated door stopper (Concealed floor hinge) embeded in floor i/c the cost of Top pivot hinge, hardware, cutting of floor and making it good complete in all respect as approved and directed by the Engineer Incharge.	Each	20.00		
17	12/58 (P.89)	<u>WOODEN ARCHITRAVE AROUND DOOR FRAMES:</u> Providing and fixing ornamental wooden architrave 3" x (1½" tapered to ¼") all along the door frame complete in all respect. Deodar wood architrave.	Per Sft	8962.00		
18	13/5 (c) (P.93)	<u>ENAMEL PAINT:</u> Preparing surface and painting of doors and windows any type (including edges):- new surface three coats.	Per Sft	17924.00		
19	13/7 (P.94)	<u>POLISHING ON WOOD WORK:</u> Prepare surface and applying French or spirit polishing, two coat of approved make on wood work at any height in any floor a) on new work	Per Sft	17773.00		

Contractor

Executive Engineer

20	13/31 (P.96)+ 11/22 (P.77)	<u>PLASTIC EMULSION PAINT:</u> Preparing surface and painting with emulsion paint:- new surface three coats, including the cost of wall putty complete on walls and ceiling at any height in any floor .	Per Sft	103081.00		
21	11/22 (P.77)+ 11/23 (P.79)	<u>CEILING DISTEMPER:</u> Priming coat of chalk under distemper and three coats Distempering:- complete in all respects at any floor .	Per Sft	60000.00		
22	13/33a (P.97)	<u>WEATHER SHIELD PAINT:</u> Prepare surface and painting two coats with weather shield paint (ICI) make of approved shade on plaster surface on external surface of building including preparation of surface, application of primer complete in all respect: at any height in any floor.	Per Sft	45144.00		
23	11/39 (P.79)	<u>GRAFFIATO WEATHER COATING:</u> Preparing surface and applying Graffiato Weather Coating (Co-polymer emulsion) of approved colour & shade with weather resistant pigment, highly water repellant with Metallic Spatula having top class finish by smoothing with a plastic Spatula, on a base coat (Primer) over well cleaned plastered surface complete in all respect as approved and directed by the Engineer Incharge.	Per Sft	3000.00		
24	10/42 (a- ii) (P.73)	<u>PORCELAIN TILE FLOORING & SKIRTING:</u> Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design, Color and Shade with adhesive / bond over 3/4" thick (1:3) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge. Full body Glazed tiles. (size 600mmx 600 mm)	Per Sft	56200.00		

Contractor

Executive Engineer

25	10/43 (a-ii) (P.73)	<u>PORCELAIN TILE ON WALLS:</u> Providing and laying superb quality Porcelain Matte finish tiles of Master brand, skirting/ dado of specified size, Color and Shade with adhesive/ bond over 1/2" thick (1:2) cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge. Matte Finish tiles. (Size 600mm x600 mm or as per drawings).	Per Sft	6840.00		
26	10/50 (i) (P.74)	<u>PREPOLISHED GRANITE ON STAIRS:</u> Providing and laying Prepolished Granite of specified thickness and shade of full width of approved quality laid with adhesive bond over 3/4" thick (1:2) cement sand mortar bed, complete in all respect as approved and directed by the Engineer Incharge.				
		a) 3/4" thick on Treads and Landings.	Per Sft	2064.00		
		b) 1/2" thick on riser and Skirting.	Per Sft	974.00		
27	10/47 (i & ii) (P.74)	<u>PREPOLISHED MARBLE SLAB:</u> Providing and laying 3/4" thick full width Prepolished Marble slab for Vanities / Shelves / Treads / Window Sills, having Uniform texture (Spotless) with adhesive bond over 3/4" thick (1:2) cement sand mortar i/c the cost of matching sealer complete in all respects as approved and directed by the Engineer Incharge.				
		a) China Verona	Per Sft	705.00		
		b) Ziarat White	Per Sft	104.00		

Contractor

Executive Engineer

28	10/48 (P.76)	Extra for Bevelling charges of marble edge in approved design complete in all respects i/c the cost of Carbo random disc as approved and directed by the Engineer Incharge.	Per Rft	2000.00		
29	10/49 (P.76)	Extra cost for making hole in Marble slab for fixtures, Sink, burners, basin Vanities i/c cost of bevelling of internal edge as approved and directed by the Engineer Incharge.	Each	34.00		
30	9/50 (P.67)	Providing and laying high density single profile spanish glazed tapered barrel type of 4"-5-1/2" dia Terra Cotta Khaprail Tile dipped or sealed with a water repellent, with Terra Cotta base plate (10"x16"), resistant to salt attack laid with laps and duly inter locked on slopping roof over 1/2" thick (1:3) cement sand mortar i/c cost of all material and labour complete in all respect as approved and directed by the Engineer Incharge. at any height .	Per Sft	2742.00		
		STEEL STRUCTURE.				
31	25/09 + 25/11 (P.203)	Supply, fabrication and erection in position Small iron work, such as gusset plates, knees, bends, stirrups, straps, rings, etc. including cutting, drilling, riveting, handling, assembling and fixing. complete in all respect as per drawings and as directed by the Engineer Incharge.	Per Kg	15000.00		
32	25/10 + 25/11 (P.203)	Supply, fabrication and erection in position of heavy steel work, with angle, tees, flat iron round iron and sheet iron for making trusses, girders, X-Bracing steel, steel frame built-up (ASTM A36), including cutting, drilling, revitting, handling, assembling and fixing, complete in all respect as per drawings and as directed by the Engineer Incharge.	Per Kg	80000.00		
33	13/5 (P.95)	Surface finish complete in all respects. With 2x coats red oxide and 2x coats enamel paint.	Per Sft	25000.00		

Contractor

Executive Engineer

34	9/13 (P.62)	Providing & Fixing corrugated galvanized iron sheets with G.I. bolts, nuts, limpet and bitumen washers, wind ties, complete in all respects without valleys and ridges:- for inclined plane roof, complete in all respect at any height. b) 22 BWG	Per Sft	1400.00		
35	11/5 (P.75)	<u>CEMENT, SAND AND SHINGLE GROUTING:</u> Providing and laying 2" (50 mm) thick cement Grouting (cement, sand and shingle) under Base Plate complete in all respects.	Per Sft	50.00		
36	26/34 (P.213)	Fixing `J' bolt in concrete, including levelling and tying. complete in all respects.	Each	170.00		
		TOTAL AMOUNT (SCHEDULE ITEMS) = PKR.				
		NON-SCHEDULE ITEMS:				
37	NSI	<u>CARPET</u> <u>TILE:</u> Providing and fixing Carpet tiles (max. size of 4.0 sq. ft.) of approved design / color / shade / texture on floor and dado fixed using approved adhesive complete in all respects as approved by the Engineer-in- Charge.	Per Sft	4250.00		

Contractor

Executive Engineer

38	NSI	<u>GRANITE SLAB ON MAIN ENTRANCE STEPS AND DECK AREA:</u> Providing and laying chemically polished Granite (Galaxy Black or equivalent approved by the Engineer In-Charge) (minimum thickness ¾") of approved colour / shade / texture and having size upto 12 sft. to specified surfaces of floors, Ramp and treads of steps with rounded nosing, laid in approved design / pattern, including 1" thick cement sand 1:3 mortar base, grouted with cement sularry with matching colour pigmented (imported pigment), complete in all respects. (Base Price of tile PKR. 1350/ Sft)	Per Sft	3255.00		
39	NSI	<u>12 MM THICK TEMPERED GLASS DOORS :</u> Providing and installing of 12mm thick tempered tinted glass (approved quality) double leaf swing doors in any size including all necessary accessories i.e. pivot machine, S.S handle, D lock etc. complete in all respect as per drawings and as per instruction of Engineer-in- Charge .	Per Sft	144.00		
40	NSI	<u>DOOR LOCK :</u> Providing and fixing, approved quality imported ICON door lock , complete in all respect as approved by the Engineer-in-charge. (as per approved sample)	Each	130.00		
41	NSI	<u>UPVC DOORS :</u> Providing and fixing uPVC Door, including uPVC door frame, with hinges, latch lock, tower bolt, handle & hardware manufactured by "ZEALCON" or approved equivalent complete in all respects, and as per sample approved by the Engineer	Per Sft	100.00		
42	NSI	<u>M.S LOUVERS DOORS:</u> Supply and install M.S Powder coated louvers door (16 Swg) Folding/openable complete , with all hardware required, locks, door frame, iron mongeries according to, drawings, specifications and as approved by the Engineer. at any floor.	Per Sft	478.00		

Contractor

Executive Engineer

43	NSI	<u>HEAT REFLECTIVE FILIM FOR WINDOWS GLASS :</u> Providing and fixing heat reflective film for doors and windows glass of approved design as directed by the engineer incharge complete in all respect. (For payment Net area of glass will be measured)	Per Sft	5550.00		
44	NSI	<u>WOODEN STAGE UP TO 2'-6" HEIGHT:</u> Providing and installing in position wooden Stage made of Kail Wood 1st Class, frame of 1-1/2"x1-1/2" wood batons, jointed at 1 ft. x 1 ft. c/c both ways horizontal & Vertically at top, including Seasonal wooden vertically columns (9" x9") support fixed to floor as per detail drawings and walls with 4" long steel rawal bolts, topped with 1-1/2" thick (3/4" +3/4") imported MDF double sheets on top and sides, making steps on sides, strictly according to drawings, including termite proofing spray and all hardware's, (nails, screws, glues etc.), wastage, lifting, cutting, etc., complete in all respect as per drawing and as directed by the Engineer-in-charge. For payment, Plan (top) area will be measured.	Per Sft	1275.00		
45	NSI	<u>WOODEN STEPS IN THEATER- 6" TO 4'-6" HEIGHT:</u> Providing and installing in position wooden Steps made of Kail Wood 1st Class, frame of 1-1/2"x1-1/2" wood batons, jointed at 1 ft. x 1 ft. c/c both ways horizontal & Vertically at top, including Seasonal wooden as columns (9" x9") support fixed to floor as per detail drawings and walls with 4" long steel rawal bolts, topped with 1-1/2" thick (3/4" +3/4") imported MDF double sheets on top and sides, making steps on sides, strictly according to drawings, including termite proofing spray and all hardware's, (nails, screws, glues etc.), wastage, lifting, cutting, etc., complete in all respect as per drawing and as directed by the Engineer-in-charge. For payment, Plan (top) area will be measured.	Per Sft	1650.00		

Contractor

Executive Engineer

46	NSI	<u>R.C.C BALUSTER RAILING:</u> Providing and fixing Pre-cast reinforced cement concrete baluster railing upto 2'-6" (762 mm) height, including top rail/ slab as per drawing , complete in all respects.	Rft	862.00		
47	NSI	<u>FIBER CLOCK:</u> Providing and fixing Fiber Clock 11 feet dia with logo complete in all respects as per drawing and as approved by the Engineer In charge at any height on Facade.	Job	1.00		
48	NSI	<u>M.S RAFTER:</u> Supply, fabrication and erection in position M.S Sheet Powder coated Box Rafter Size 4" x 4" of 16 SWG complete in all respects as per drawing an as approved by the Engineer In charge at any height on Facade.	Kg	750.00		
49	NSI	<u>ACRYLIC BACKLIT LETTERS:</u> Supply, fabrication and erection in position Acrylic Backlit letters complete in all respects as per drawing an as approved by the Engineer In charge at any height .	Sft	75.00		
		<u>STEEL STRUCTURE.</u>				
50	NSI	Supply and installation of Cement Board EPS (Expanded Polystyrene) Smart Panels (2440 mm x 610 mm) including accessories i.e. steel pins & dry-bond in external walls of total thickness not less than 100mm. including making door and windows openings including 50mm wide and 100mm wide fiber mesh to the joints and use a spatula to press the mesh tightly. complete in all respects as per drawings, detail specification and as approved by the Engineer in Charge.	Per Sft	5796.00		

Contractor

Executive Engineer

51	NSI	Providing and fixing 2"-thick imported glass wool insulation blankets with aluminum foil vapour barrier on one side in between the roof purlins and corrugated GI sheets, insulated tightly with roof sheets using galvanised steel wires 2mm thick fixed at approx. 12" c/c, all longitudinal joints of the glass wool blanket to be sealed with aluminium adhesive tap.	Per Sft.	6900.00		
52	NSI	Supply, Fixing, & erecting in position 0.5mm thick prepainted PPGI (ASTM A792 M) roof sheeting, including G.I "J" bolt with limpet & rubber washer, complete in all respect as per drawings and as directed by the Engineer-in-charge. at any height.	Per Kg	4500.00		
		TOTAL AMOUNT (NON-SCHEDULE ITEMS) = PKR.				
		G.TOTAL AMOUNT (PKR)				

Contractor

Executive Engineer

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

CIVIL WORKS:

Item #	MRS Ref#	Description of Items.	Unit	Quantity	Rate Quoted by the Contractor	Amount (PKR)
		GENERATOR PAD AND TRANSFORMER TOWER.				
		SCHEDULE ITEMS:				
EX-01	Ch.3/21 (a-ii) (P.30)	<u>EARTH WORK:</u> Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m). b) in ordinary soil.	Per Cft	693.79		
EX-02	Ch.6/5(i) (P.41)	<u>PLAIN CEMENT CONCRETE (1:4:8) :</u> Providing and laying of Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1:4:8	Per Cft	103.63		

Contractor

Executive Engineer

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

Contractor

Executive Engineer

EX-05	Ch.6/12 (c) (P.45)	<u>STEEL REINFORCEMENT:</u> Supply and Fabrication of mild steel reinforcement for cement concrete including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars).				
a)		a) Deformed bars (Grade-60)	Per Kg	2200.00		
		TOTAL AMOUNT (SCHEDULE ITEMS) = PKR.				
		G.TOTAL AMOUNT (PKR)				

Contractor

Executive Engineer

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

ELECTRICAL WORKS :

Sr. #	MRS Ref#	Description of work	Unit	Quantity	Rate Quoted by the Contractor	Amount
		SCHEDULE ITEMS:- 1st Biannual 2022, Faisalabad.				
1	Ch.24/3(P.1 67)	Supply and erection of PVC pipe for wiring recessed in walls, including clamps inspection boxes, pull boxes, bends, tees, repairing surface, etc., complete with all specials:-				
	(i)	20 mm i/d	P. Rft	4000.00		
	(ii)	25 mm i/d	P. Rft	4000.00		
	(iii)	32 mm i/d	P. Rft	500.00		
	(iv)	40 mm i/d	P. Rft	500.00		
2	Ch.24/6(P.1 67)	Supply and erection of PVC pipe for wiring recessed in walls, including clamps inspection boxes, pull boxes, bends, tees, repairing surface, etc., complete with all specials:-				
	(i)	50 mm i/d	P. Rft	250.00		
	(ii)	100 mm i/d	P. Rft	1250.00		

Contractor

Executive Engineer

3	Ch.24/10(c) (P.168)	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe /M.S. conduit /G.I pipe /wooden strip batten/ wooden casing an capping/ G.I. wire/ trenches (rate for cables only):- 250/440 volts, PVC insulated:				
	(i)	1.5 mm sq (3/0.029")	P. Rft	16404.00		
	(ii)	2.5 mm sq (7/0.029")	P. Rft	13123.00		
	(iii)	4 mm sq (7/0.036")	P. Rft	8202.00		
	(iv)	6 mm sq (7/0.044")	P. Rft	1640.00		
4	Ch.24/13(C) (P.170)	Supply and erection of copper conductor cables for service connection, in prelaid pipe/G.I. wire / trenches, etc. (rate for cable only):-				
		PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable:-				
	(i)	10 mm (7/0.052")	P. Rft	1148.00		
	(ii)	16 mm (7/0.064")	P. Rft	1148.00		
	(iii)	25 mm (19/0.052")	P. Rft	164.00		
	(iv)	35 mm sq (19/0.064")	P. Rft	164.00		
5	Ch.24/12(P. 169)	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 660/1100 volts grade cable, in prelaid pipe/G.I. wire /M.S conduits/ trenches, etc. (rate for cable only):-				
	(xiv)	300 mm sq (61/0.099")	P.Rft	3000.00		
	(ix)	95 mm sq (37/0.072")	P.Rft	650.00		
	Public Address System					

Contractor

Executive Engineer

6	Ch.24/150(P.200)	Supply, Installation & Commissioning of recessed/surface mounted Speakers of specified capacity housed in metallic enclosure with builtin 70v/100v transformer, aluminium grill, SPL (Sound Pressure Level) (1W / 1M)= 92dB max 99dB, frequency response 130-13 Khz, EN-54 compliant, Including cost of all accessories and matierlas, complete in all respect made of Ecler Europe/Bosch/ Norden / Honey Well or equivalent as approved and directed by the Engineer Incharge.				
	b(i)	10-15 watt	P. No	50.00		
7	Ch.24/155 (P.201)	Supply, Installation of Microphone of specified quality as per requirement made of : Norden, Bosch, Honeywell. Complete in all respect. as approved and directed by Engineer Incharge.				
	(iii)	Handheld Microphone with Stand	P. No	2.00		
8	Ch.24/152(P.200)	Supply, Installation and commissioning of Power / Mixer Amplifier of specified wattage, Including cost of all necessary accessories / materials , complete in all respects made of Ecler Europe/Bosch/ Norden / Honey Well or Equivalent or as approved and directed by Engineer Incharge.				
	i)	480 Watt.	P.No	1.00		
Switch Plates and Cable tray						
9	Ch.24/14(P.171)	Supply and erection of M.S. sheet box of 16 SWG, 10 cm (4") deep, with 4.75 mm thick (3/16") bakelite sheet top, for recessed wiring, including making holes for regulators,switches, plugs, etc.				
	i)	10 x 10 cm (4"x4")	P. No	550.00		
	ii)	17.5 x 10 cm (7"x4")	P. No	100.00		

Contractor

Executive Engineer

10	Ch.24/103 (P.189)	P/F PVC double layer Switch kit Faceplate with specified switch holes i/c the cost of switches / sockets / dimmer made of Hi-Life / Bush / Schenider, screws complete as approved and directed by the Engineer Incharge				
	(a)	One way Gange Switch Small				
	(i)	01 Gange	P. No	30.00		
	(ii)	02 Gange	P. No	80.00		
	(iii)	03 Gange	P. No	40.00		
	(iv)	Three pin Light Plug 10/13 Amp	P. No	192.00		
	(v)	Three pin Power Plug 15-32 Amp	P. No	50.00		
	(vi)	Telephone / TV/Datacable socket	P. No	50.00		
	(vii)	Fan Dimmer	P. No	15.00		
	(viii)	bell push	P. No	5.00		
11	Ch.24/98 (P.187)	Providing and fixing 4" deep cable tray with straight flange fabricated with perforated G.I. Sheet of specified guage,size and depth duly wall supported/ceiling hung,supported on painted brackets of MS angle iron of 1-1/2"x1-1/2"x3/16" and MS patti of 1-1/2"x3/16" size @ 5 ft C/C, hangers i/c the cost of hardwares as approved and directed by the Engineer Incharge.				
	i)	9"x4"	P.Rft	1500.00		

Contractor

Executive Engineer

	Fitting Fixtures & Fans					
12	Ch.24/28 (P.174)	Supply and erection of call bell 220/250 volts, fixed on teak wood board 17.5x10 cm (7"x4").	P. No	3.00		
13	Ch.24/29 (P.174)	Supply and erection of bell push or bed switch, with 5 metres twin flexible wire 23/0.0076".	P. No	3.00		
14	Ch.24/30 (P.174)	Supply and erection of ceiling rose, bakelite.	P. No	3.00		
15	Ch.24/47 (P.176)	Supply and erection of roof suspension hook, 16 mm (5/8") dia rod with 75x40x3 mm (3" x 1½" x 1/8") M.S. steel channel, with clamp, bolts and nuts, etc., including fixing with cement concrete 1:3:6	P. No	10.00		
16	Ch.24/102 (P.189)	Providing and fixing Copper winded Exhaust fan with louver and shutter made of Pak / Younas / G.F.C. i/c the cost of necessary cable and hardware for connection from ceiling rose complete as approved and directed by Engineer Incharge.				
	(i)	10" dia Plastic body	P. No	1.00		
	(ii)	12" dia Plastic body	P. No	1.00		
	Data Networking System					
17	Ch.24/106 (P.190)	Supply, Installation and commissioning of wiring with 4-pair data Cable, 23 AWG support 1 Giga @ 250 Mhz upto 100 meter UL/EN listed cable conforming IEEE 802.3 or equivalent, in prelaidd conduit / cable tray from including all accessories, Make: Schneider / i-connect UK/3M Corning USA, complete in all respect as approved and directed by Engineer Incharge.				
	a)	CAT-6 (Unshielded Twisted Pair)	P.Mtr	1600.00		

Contractor

Executive Engineer

18	Ch.24/138 (P.197)	Supply, installation and connections of 42U Racks 800 x1000 MM with Fans and:02 nos PDU-IMPORTED. Make Schneider as specified as approved and directed by Engineer's Incharge .	P. No	1.00		
19	Ch.24/109 (P.191)	Supply, Installation and commissioning of Cat-6, UTP Machine Made Patch Cord of Specified Length, Support 10 Giga, UL listed cable or equivalent, with anti snag boots, Gold Over Nickel Plated, Made of Schneider / i-Connect UK /Panduit USA as Approved and Directed by Engineer Incharge.				
	(i)	1 meter Patch Cord	P. No	45.00		
	(ii)	3 Meter Patch Cord	P. No	15.00		
20	Ch.24/111 (P.191)	Supply, Installation and Connection of Specified Ports Layer-2 PoE (Power Over Ethernet) data Network Switch portsx100 Mbs/s PoE+,2x1000 Mbps, UP LINK,2X1000 Mbs SFP UPLINK made of Cisco USA/NOVAS Europe/Juniper USA or Equivalent as approved and directed by the Engineer Incharge.				
	(iv)	24 port,365 Watt PoE power	P. No	2.00		
21	Ch.24/115 (P.192)	Supply, installation & connections of UTP 24 Port sliding Patch Panel loaded with one piece tool less I/O's VDIG 112241U-/VDIB 17726- U12 having ushaped smart bridle UL Listed having two side buttons for locking mechanism made of Schneider/i-Connect USA or equivalent i/c the cost of tags as approved & directed by the Engineer Incharge.				
	(i)	CAT-6	P. No	2.00		
	Transformer					

Contractor

Executive Engineer

22	Ch.24/105 (P.190)	Supply, insatllation, commissioning and testing of oil cooled type, Step down Power Transformer of specified rating,11/0.415 kV, i/c the cost of lifting hooks, thermometers, LT & HT bushing 5-steps, tap changer, imported double float buchholz relay, 2 earthing terminals, roller wheels, connecting terminals for cables M.S box on transformer in order to cover complete L.T side, all necessary materials required for connections on H.T & L.T side, rated voltage 11000/415/240 V impedance 6.25% or as specified by WAPDA/IEC system earth: Delta / Star, neutral solidly earthed, i/c Wapda testing charges,complete in all respects made of PEL, Siemens, as approved and directed by the Engineer Incharge				
	viii	400 KVA	P.No	1.00		
CCTV						
23	Ch.24/122 (P.193)	Supply, installation & connecting IP based Camera of specified resolution, 1/3" Progressive scan, fixed lens 2.8 mm AF, Max resolution 2592 x 1920 mm, Codec H-265, Camera with 25 fps, day night (ICR), ONVIF, IP-66, Max IR distance 30 meter, WDR Smart Analytics, i/c the cost of mounting bracket, mounting accessories/ materials. Make: - Honey Well / Bosch / Norden or Equivalent, as approved as directed by the Engineer Incharge.				
	a(i)	Fixed Bullet type (2 Mega Pixel)	P.No	5.00		
	a(ii)	Fixed Dome type (2 Mega Pixel)	P.No	38.00		
24	Ch.24/116 (P.192)	Supply & Installation of NVR (Network Video Recorder) for Real Time View of specified Channels, video and Audio channels,Supported protocols: ONVIF,RTSP etc,Internal HDDs mount:2/4/8 as per user requirement,Monitor outputs,(HDMI,4K Ultra HD),VGA (Video Graphic array), complete in all respect. made of AXIS Europe/NOVAS Europe/Avigilon by Motrola USA or equivalent as approved and directed by the Engineer Incharge.				

Contractor

Executive Engineer

	(iii)	32-Channel	P.No	1.00		
25	Ch.24/111 (P.191)	Supply, Installation and Connection of Specified Ports Layer-2 PoE (Power Over Ethernet) data Network Switch portsx100 Mbs/s PoE+,2x1000 Mbps, UP LINK,2X1000 Mbs SFP UPLINK made of Cisco USA/NOVAS Europe/Juniper USA or Equivalent as approved and directed by the Engineer Incharge.				
	(i)	24 port,365 Watt PoE power	P.No	2.00		
	(ii)	12 port,250 Watt PoE power	P.No	1.00		
		SCHEDULE ITEMS-TOTAL AMOUNT (PKR.)				
NON SCHEDULE ITEMS						
26	NSI	Providing, Installing, testing & commissioning of following size of PVC insulated Single Core Cu. Conductor for earth in already installed PVC conduit. complete in all respect.				
	(i)	1 mm ² solid Green/Yellow	P. Mtr	1500.00		
	(ii)	1.5 mm ² solid Green/Yellow	P. Mtr	800.00		
	(iii)	2.5 mm ² solid Green/Yellow	P. Mtr	1500.00		
	(iv)	4 mm ² solid Green/Yellow	P. Mtr	500.00		
	(iv)	6 mm ² solid Green/Yellow	P. Mtr	500.00		
	(iv)	10 mm ² solid Green/Yellow	P. Mtr	500.00		
	(v)	16 mm ² solid Green/Yellow	P. Mtr	100.00		
	(vi)	25 mm ² solid Green/Yellow	P. Mtr	20.00		
	(vii)	70 mm ² solid Green/Yellow	P. Mtr	100.00		

Contractor

Executive Engineer

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

Contractor

Executive Engineer

31	N.S	Supply and installation of Panel light, input 220-240 V, size 2' x 2', Out put power 35-45 W, Power factor > 0.9, operating frequency 50 Hz, compatible for sin/square wave servs, Phillips or approved equivalent, complete in all respect. (as per approved sample)	P. No	389.00		
32	N.S	Supply and installation of Panel light, input 220-240 V, size 1' x 1', Out put power 24-30 W, Power factor > 0.9, operating frequency 50 Hz, compatible for sin/square wave servs, Phillips or approved equivalent, complete in all respect. (as per approved sample)	P.No	6.00		
33	N.S	Supply and erection of walls bracket fan 18" size M/s. Pak/ Asia/ Millat or equivalent as approved by the engineer incharge complete in all respect.	P. No	106.00		
34	N.S	Supply and erection of Ceiling Revolving fan 2'x2' size M/s. Pak/ Asia/ Millat or equivalent as approved by the engineer incharge complete in all respect.	P.No	192.00		
35	N.S	Supply and erection of ceiling fans deluxe model, capacitor type i/c extension of rods, paint, dimmer, (Pak/ Millat/ Asia/ Climax/ approved equivalent) complete in all respect.				
	(i)	56" size	P. No	8.00		
36	N.S	Supply and installation, testing, commissioning of TMS-015 complete fittings, suitable for sin/ square wave, 220-v, input 50-Hz frequency, p.f > 0.9, with one year warranty of Phillips made or approved equivalent, complete in all respect. (as per approved sample)				
	(i)	1x36-Watts Led rod	P. No	6.00		
	(ii)	1x20-Watts Led rod	P. No	6.00		

Contractor

Executive Engineer

37	N.S	Supply and installation, testing, commissioning of LED 14 watt Wall Bracket Light, 220-v, input 50-Hz frequency, p.f > 0.9, with one year warranty of Phillips made or approved equivalent, complete in all respect. (as per approved sample)	P. No	25.00		
38	N.S	Supply and installation, testing, commissioning of SMART LED 18 watt Down Light, 220-v, input 50-Hz frequency, p.f > 0.9, with one year warranty of Phillips made or approved equivalent, complete in all respect. (as per approved sample)	P. No	10.00		
39	N.S	Supply and installation, testing, commissioning of SMART LED 12 watt Down Light, 220-v, input 50-Hz frequency, p.f > 0.9, with one year warranty of Phillips made or approved equivalent, complete in all respect. (as per approved sample)	P.No	70.00		
40	N.S	Supply and installation, testing, commissioning of Exit light complete in all respects	P.No	18.00		
41	N.S	Supply and installation of Projector with projector screen complete in all respects	P.No	15.00		
	LT Panel					

Contractor

Executive Engineer

42	N.S	<p>Supply, installation, testing and commissioning of Main distribution board with ATS panel having the following equipments as under.</p> <p>INCOMING:</p> <p>Adjustable MCCB 630-800-Amp 02 Nos ABB Germany/(Schneider France/ equivalent)</p> <p>Digital volt meter size 96mmx96mm, (Entes turkey / equivalent) 01 No</p> <p>SPD's with fuse</p> <p>Phase indication lights 22mm dia 03 Nos</p> <p>Complete Set of Electrical/Mechanical Interlocking</p> <p>OUTGOING:</p> <p>Adjustable MCCB T.P 800-Amp 2- Nos (ABB Germany/Schneider France/equivalent)</p> <p>Fitting in D.B box of M.s 16-SWG wall mounted including the cost of loading, unloading and carriage charges from manufacturer to site of work complete in all respect.</p>	P. No	1.00		
43	N.S	<p>Supply, installation, testing and commissioning of Main distribution board having the following equipments as under.</p> <p>INCOMING: Adjustable MCCB 630-800-Amp 01 Nos ABB Germany/(Schneider France/ equivalent)</p> <p>Digital volt meter size 96mmx96mm, (Entes turkey / equivalent) 01 No</p> <p>SPD's with fuse</p> <p>Phase indication lights 22mm dia 03 Nos</p> <p>OUTGOING: MCCB T.P 32/40/50/63-Amp 22- Nos (ABB Germany/Schneider France/equivalent)</p> <p>Adjustable MCCB 4.P 630-Amp 1- Nos (ABB Germany/Schneider France/equivalent)</p> <p>MCCB 4.P 100-Amp 1- Nos (ABB Germany/Schneider France/equivalent)</p> <p>Fitting in D.B box of M.s 16-SWG wall mounted including the cost of loading, unloading and carriage charges from manufacturer to site of work complete in all respect.</p>	P. No	1.00		

Contractor

Executive Engineer

44	N.S	Providing, Installing and commissioning of the following 3 Phase automatic power factor improvement panel of 200KVAR to be installed adjacent to LT Panel comprising of all necessary sensing and switching relays, contactors, banks of capacitors suitable for operation of 440V, 50Hz Control Voltage 230V, 50Hz Switching in and out the capacitors in 4 steps. 4 stage reactive power control relay with digital switch Manual/Auto/OFF Indication lamps, push button HRC fuses of suitable rating, contactors for capacitors, control fuses, auxillary contactors for capacitors all necessary materials complete in all respects and as per general specifications.	P. No	1.00		
45	N.S	Supply, installation, testing and commissioning of distribution board having the following equipments as under. INCOMING: MCCB 32-Amp 01 Nos ABB Germany/(Schneider France/ equivalent) Digital volt meter, size 96mmx96mm, (Entes turkey / equivalent) 01 No Phase indication lights 22mm dia 03 Nos OUTGOING: MCB S.P 10-Amp 35- Nos (ABB Germany/Schneider France/equivalent) Fitting in D.B box of M.s 16-SWG wall mounted including the cost of loading, unloading and carriage charges from manufacturer to site of work complete in all respect.	P. No	4.00		

Contractor

Executive Engineer

46		<p>Supply, installation, testing and commissioning of distribution board having the following equipments as under.</p> <p>INCOMING:</p> <p>MCCB 32-Amp 01 Nos ABB Germany/(Schneider France/ equivalent)</p> <p>Digital volt meter, size 96mmx96mm, (Entes turkey / equivalent) 01</p> <p>Phase indication lights 22mm dia 03 Nos</p> <p>OUTGOING:</p> <p>MCB S.P 10-Amp 15- Nos (ABB Germany/Schneider France/equivalent)</p> <p>Fitting in D.B box of M.s 16-SWG wall mounted including the cost of loading, unloading and carriage charges from manufacturer to site of work complete in all respect.</p>	P. No	2.00		
47	N.S	<p>Supply, installation, testing and commissioning of distribution board having the following equipments as under.</p> <p>INCOMING:MCCB 50-Amp 01 Nos ABB Germany/(Schneider France/equivalent)</p> <p>Digital volt meter, size 96mmx96mm, (Entes turkey / equivalent) 01</p> <p>NoPhase indication lights 22mm dia 03 Nos</p> <p>OUTGOING:MCB S.P 10-Amp 2 Nos (ABB Germany/ Schneider France/equivalent)</p> <p>MCB S.P 16/20/25-Amp 30 Nos (ABB Germany/ Schneider France/equivalent)</p> <p>Fitting in D.B box of M.s 16-SWG wall mounted including the cost of loading, unloading and carriage charges from manufacturer to site of work complete in all respect.</p>	P. No	4.00		

Contractor

Executive Engineer

48	N.S	<p>Supply, installation, testing and commissioning of distribution board having the following equipments as under.</p> <p>INCOMING:</p> <p>MCCB 50-Amp 01 Nos ABB Germany/(Schneider France/equivalent)</p> <p>Digital volt meter, size 96mmx96mm, (Entes turkey / equivalent) 01 No</p> <p>Phase indication lights 22mm dia 03 Nos</p> <p>OUTGOING:</p> <p>MCB S.P 10-Amp 2 Nos (ABB Germany/ Schneider France/equivalent)</p> <p>MCB S.P 16/20/25-Amp 12 Nos (ABB Germany/ Schneider France/equivalent)</p> <p>Fitting in D.B box of M.s 16-SWG wall mounted including the cost of loading, unloading and carriage charges from manufacturer to site of work complete in all respect.</p>	P. No	2.00		
49	N.S	<p>Supply, installation, testing and commissioning of distribution board having the following equipments as under.</p> <p>INCOMING:</p> <p>MCCB 40-Amp 01 Nos ABB Germany/(Schneider France/equivalent)</p> <p>Digital volt meter, size 96mmx96mm, (Entes turkey / equivalent) 01 No</p> <p>Phase indication lights 22mm dia 03 Nos</p> <p>OUTGOING:</p> <p>MCB S.P 16/20-Amp 15 Nos (ABB Germany/ Schneider France/equivalent)</p> <p>Fitting in D.B box of M.s 16-SWG wall mounted including the cost of loading, unloading and carriage charges from manufacturer to site of work complete in all respect.</p>	P. No	2.00		

Contractor

Executive Engineer

50	N.S	Supply, installation, testing and commissioning of distribution board having the following equipments as under. INCOMING: MCB 32-Amp 01 Nos ABB Germany/(Schneider France/equivalent) Digital volt meter, size 96mmx96mm, (Entes turkey / equivalent) 01 No Phase indication lights 22mm dia 03 Nos OUTGOING: MCB S.P 10/16-Amp 10 Nos (ABB Germany/ Schneider France/equivalent) Fitting in D.B box of M.s 16-SWG wall mounted including the cost of loading, unloading and carriage charges from manufacturer to site of work complete in all respect.	P. No	2.00		
51	N.S	Supply, installation, testing and commissioning of distribution board having the following equipments as under. INCOMING: MCB 32-Amp 01 Nos ABB Germany/(Schneider France/equivalent) Digital volt meter, size 96mmx96mm, (Entes turkey / equivalent) 01 No Phase indication lights 22mm dia 03 Nos OUTGOING: MCB S.P 10/16-Amp 30 Nos (ABB Germany/ Schneider France/equivalent) Fitting in D.B box of M.s 16-SWG wall mounted including the cost of loading, unloading and carriage charges from manufacturer to site of work complete in all respect.	P. No	4.00		
Fire Alarm System						
52	N.S	Installation and Wiring of Conventional Alarm Sounders	P.No	3.00		
53	N.S	Installation and Wiring of Conventional Smoke Detectors	P.No	128.00		
54	N.S	Installation and Wiring of Conventional Heat Detectors	P.No	2.00		

Contractor

Executive Engineer

55	N.S	Installation and Wiring of Conventional Fire Alarm Control Panel 4 zone	P.No	1.00		
56	N.S	Installation and Wiring of Conventional Manual Call Stations	P.No	4.00		
57	N.S	Commission and Testing of complete Fire Detection system.	P.No	1.00		
Telephone						
58	N.S	Supply and install recessed type telephone distribution box suitable for 50 pair including appropriate size 16 SWG sheet steel box with hinged, latched and lockable cover.	P.No	1.00		
59	N.S	Supply, Installation, Testing & Commissioning of HYBRID - PABX, Telephone Exchange CLI Built in expandable to 24 user , with battery backup for 8 Hours, call logging software, digital Operator console, Complete in all respects as per manufacturer.	P.No	1.00		
60	N.S	Supply, Installation, Testing & Commissioning of Telephone Set, complete in all respect.	Job	2.00		
61	N.S	0.6 mm dia, 10 pair tinned copper conductor PVC/PVC telephone cables in already installed conduits/pipes.	Rft	150.00		
Earthing						
62	NSI	Supply, Installation, Testing and commissioning of following earthing system including all accessories complete in all respects and as mentioned in Specification				

Contractor

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	i)	Drilling of earth bore 80 to 90 ft. deep or up to permanent water table, back filling, ramming, complete in all respect including cost of copper rod dia 3/4" length 3000mm or as shown in the drawing fixing of 70mm copper wire in 1" GI conduit up to ecp complete in all respect as required. Earthing bores shall be made at 2000mm away from foundation and distance between earth bore shall not be less than 3000mm	P.No	8.00		
	ii)	Man Hole for Earthing	P.No	5.00		
	iii)	25 sqmm, 1 core CU stranded conductor bare (for Earthing).	P.Rft	100.00		
	iv)	95 sqmm, 1 core CU stranded conductor bare (for Earthing).	P.Rft	100.00		
	v)	305 mm long, 50 mm wide and 6mm thick copper busbar as ECP (Earth Connecting Point) complete with insulators, washers, nuts, bolts mounting installation and operational accessories as per site requirements.	P.No	8.00		
	External Development					
63	N.S	Installation, Commissioning and Testing of Light Fixtures including all required accessories complete in all respects and as mentioned in Specification and as per lighting layout and as per direction of engineer incharge)				
	i)	Pole Light 60W outdoor (as per lighting layout)	P.No	25.00		
	ii)	Flood Light 100W outdoor (as per lighting layout)	P.No	12.00		

Contractor

Executive Engineer

64	N.S	Street light pole G.I Pipe of good quality jamal or approve equalent with Cable Termination box made of 16 SWG sheet steel powder coated with insulators, bus bars and clamps fixed at side with pcc 1:2:4 18x 18x30 inch from ground level i/c excavation with two coats of white epoxy paint complete in all respect. (Bottom 150mmX60mmX3.5mm) (Single Arm)	P.No	32.00		
65	N.S	Street light pole G.I Pipe of good quality jamal or approve equalent with Cable Termination box made of 16 SWG sheet steel powder coated with insulators, bus bars and clamps fixed at side with pcc 1:2:4 18x 18x30 inch from ground level i/c excavation with two coats of white epoxy paint complete in all respect. (Bottom 150mmX60mmX3.5mm) (Double Arm)	P.No	4.00		
		NON-SCHEDULE ITEMS-TOTAL AMOUNT (PKR.)				
		G.TOTAL AMOUNT (PKR)				

Contractor

Executive Engineer

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

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

PUBLIC HEALTH WORKS:

Sr. #	MRS Ref#	Description of Items.	Unit	Quantity	Rate Quoted by the Contractor	Amount (PKR)
		SCHEDULE ITEMS:				
1	Ch.19/3 1 (P.130)	Providing and fixing gun metal peet/gate valve (screwed):-				
a)	i)	30 mm (1¼") dia	Each	10.00		
b)	ii)	40 mm(1½") dia	Each	5.00		
c)	iii)	50 mm(2") dia	Each	7.00		
d)	iv)	65 mm(2 1/2") dia	Each	5.00		
2	Ch.19/5 1 (P.133)	Providing and hoisting vertical/horizontal type storage tank of required capacity made of rotationally molded from (HDPE), double plypolyethelene of approved manufacturer i/c cost of making connection for inlet/outlet pipe, float valve i/c all cost of specials & labour complete in all respect as approved and directed by the Engineer Incharge.	Per Gallon	250.00		

Contractor

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

Contractor

Executive Engineer

		SCHEDULE ITEMS-TOTAL AMOUNT (PKR).				
		NON SCHEDULE ITEMS:				
8	NSI	Providing and fixing European type water closet of approved color with intergal trap in vitreous Imported/Local Porta make (HD180N) or equivalent with coupled flushing cistern or equivalent as approved by the Engineer complete in all respects to their entire satisfaction, including all accessories, waste and trap, double seat and cover, tee stop cock with wall cups, PVC flexible pipe connection, all joints to services and drains, plugging and screwing as necessary to the structure and making good the same complete in all respects.	Each	36.00		
9	NSI	Providing and fixing Asian water closet Porta make (HD70), export quality, with low down Porta (plastic) flushing cistern 3 gallons capacity i/c syhonic fitting, 1/2" dia C.P. brass stop cock (Master/Sonex Make), C.P. connection, 1-1/2" G.I. flush pipe with extra bends, length, fittings, clamps, P-Trap etc. complete	Each	32.00		
10	NSI	Providing and fixing Under Counter lavatory basin of approved color in vitreous china best quality Porta make (HD1) as approved by the Engineer complete in all respects to their entire satisfaction including all accessories and fittings Master, Sonex make, such as 2 Nos., 13mm dia CP brass tee stop cock with wall cups, PVC flexible inlet pipe connection, CP brass strainer, waste water jointing assembly, painted MS bracket set with nut bolts etc., best quality PVC bottle trap, all joints to services and drains, plugging and screwing as necessary to the structure complete in all respects.	Each	20.00		
11	NSI	Providing and fixing C.P. mixing valves for wash basin best quality Master (3099A), Sonex make or equivalent as approved by the Engineer complete in all respects to their entire satisfaction including all accessories and fittings complete in all respects.	Each	20.00		

Contractor

Executive Engineer

12	NSI	Providing and fixing toilet paper holder best quality Master (187-4) make or equivalent as approved by the Engineer complete in all respects to their entire satisfaction including all accessories and fittings.	Each	36.00		
13	NSI	Providing and fixing of Muslim Shower best quality Master (2015) make or equivalent for toilets, mounting hook, connectors, nuts, bolts, fittings and accessories complete in all respect as per drawings and specifications.	Each	68.00		
14	NSI	Providing and fixing Double Bib Cock best quality Master make (199) make or equivalent as approved by the Engineer complete in all respects to their entire satisfaction including all accessories and fittings complete in all respects.	Each	68.00		
15	NSI	Providing and fixing Bib Cock best quality Master make (108) or equivalent as approved by the Engineer complete in all respects to their entire satisfaction including all accessories and fittings complete in all respects.	Each	5.00		
16	NSI	Providing and fixing soap dish set best quality Master make (187-5) or equivalent as approved by the Engineer complete in all respects to their entire satisfaction including all accessories and fittings complete.	Each	6.00		
17	NSI	Providing and fixing of approved Double Bowl Stainless Steel Sinks of specified size best quality with bottle trap, painted MS bracket set with nuts bolts, waste water jointing assembly, making requisite number of holes in walls, floors and plinth for pipe connections and making good with approved material complete in all respect as per drawings and Specifications.	Each	2.00		
18	NSI	Providing and fixing C.P. Sink Mixer for wash basin best quality Master make (422) or equivalent as approved by the Engineer complete in all respects to their entire satisfaction including all accessories and fittings complete in all respects.	Each	2.00		

Contractor

Executive Engineer

19	NSI	Providing and fixing of approved Two Taps Water Dispenser with 19 litter water filled bottles, and Electric connection with existing points etc. Complete in all respects. (Homage, PEL or Equivalent)	Each	2.00		
20	NSI	Providing and fixing Automatic/Manual along remote control air freshener approved by the Engineer complete in all respects to their entire satisfaction including all accessories and fittings complete.	Each	4.00		
21	NSI	Providing and fixing Hand Drier (Sensored) imported including all necessary fittings complete in all respects as specified and as directed by Engineer incharge at site. (Siemens or Equivalent)	Each	4.00		
22	NSI	Providing and fixing soap dispenser best quality Master make (05000) or equivalent as approved by the Engineer complete in all respects to their entire satisfaction including all accessories and fittings complete.	Each	16.00		
23	NSI	Proving and Fixing Stainless Steel Grip bar with rubber Grab for English W.C including all fittings with complete installation.	Each	4.00		
24	NSI	Providing and fixing of Electric Water Cooler as approved by the Engineer including all accessories and fittings Complete in all respects.				
a)		35 Gal Capacity	Each	4.00		
25	NSI	Providing and fixing Supply and installation of 3mm thick Glass mirror including fixing/holding clips, screws etc and all fittings for complete installation.	Sft	175.00		

Contractor

Executive Engineer

26	NSI	Supply, installation and testing of RO-Plant with capacity =250 GPD, plant consist of one streams lines each line with 100% of the total flow, intake pipe for the RO-Plant suction Shall be in low level for the main feeder water tank. All data related to RO shall be as per the Drawings, Specifications and Standards. Price should include fixation and Proper operation, RO-Plant shall produce the water with the Quality required for the project. Item includes also supply and install the purified water automatic chlorination system, rejected water tank (holding water tank), all the control panels with its indication lamps and switches keys and all the outside cables, pipes and all accessories required for proper installation and operation	Each	2.00		
27	NSI	Supply, Installation, Testing & Commissioning of Submersible water transfer pumps for filling of Over Head water tank of KSB, WILO, HMA or GRUNDFOS make with electric motor SIEMENS or equivalent make, including all accessories, control panels, DOL Starter, Float Switch, pressure gauges, dry running protection, alarm switch of approved manufacturer of each of following Capacity and Pumping head as per specification.				
a)		Capacity =150 gpm Head = 60 feet	Each	2.00		
28	NSI	Supply, Installation, Testing and Commissioning of water pumps for Irrigation of KSB, WILO, HMA or GRUNDFOS make with electric motor SIEMENS or equivalent make, including all accessories, DOL Starter, NRV, control pannels of approved manufacturer for following Capacity and Pumping head as per specification				
a)		Capacity =50 gpm Head = 125 feet (Tentative)	Each	1.00		

Contractor

Executive Engineer

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

Contractor

Executive Engineer

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

Contractor

Executive Engineer

35	NSI	Providing & fixing and testing floor drain (P/Bottle/Multifloor trap) uPVC including extension grating and stainless steel cover grating best quality local make Dadex or Tetraplast make as approved by the Engineer, complete in all respects to their entire satisfaction of the Engineer.	Each	50.00		
36	NSI	Providing & fixing and testing uPVC floor Cleanout of the following diameter, including 2 No. 45o elbows, transition pipe, socket plug, breaking concrete or masonry work & then making it good, etc. complete in all respects.	Each	1.00		
37	NSI	Providing, laying, fixing and testing vent cowl vertical/horizontal in wall uPVC best quality Dadex or Master make as approved Engineer complete in all respects to their entire satisfaction.	Each	10.00		
38	NSI	Construction of Gully Trap Chamber (24"x24" clear) construction of 4-1/2" thick brick masonry in 1:4 c/s mortar , 3" thick 1:4:8 PCC at bottom, 1:2:4 PCC in benching, (18"x18") CI cover with frame (7 kg), 1/2" thick 1:3 c/s plaster on inner face, etc. complete in all respects.	Each	9.00		
39	NSI	Supply, installation of 3/4" diameter Galvanised MS ladder rungs for sump pits, Manholes, Under Ground Water & Septic Tank; each rung of 18" width, 6" projected outside the wall and 6" embeded in RCC on both ends; including all necessary works for complete installation.	Each	140.00		
40	NSI	Construction and laying R.C.C man hole up to 6'-0" depth , including excavation back filling , PCC in bed , 10" inch thick base slab, 6" inch thick RCC walls , top slab with manhole cover and steel reinforcement , complete in all respects as per drawings and specification with bitumen coating.	Each	32.00		

Contractor

Executive Engineer

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

Contractor

Executive Engineer

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

GAS SUPPLY:

Item #	MRS Ref#	Description of Items.	Unit	Quantity	Rate Quoted by the Contractor	Amount (PKR)
	Chapter					
1	Ch.19 /50 (P.13 3)	Providing, laying, testing and commissioning underground Yellow Polyethelene flexible gas pipe Tubing of SDR-11 in the trenches & Walls, made of (Dadex/Popular/Beta/BBJ) for Gas supply i/c the cost of solvent and specials complete as approved and directed by the Engineer Incharge.				
a)	(ii)	1" Dia	Rft	50.00		
b)	(iii)	1-1/4" Dia	Rft	515.00		
2	Ch.19 /45 (P.13 3)	Providing and fixing brass stop cock.				
a)	(b)	20 mm (¾") dia	Each	2.00		
		SCHEDULE ITEMS- TOTAL AMOUNT (PKR.)				

Contractor

Executive Engineer

**EXTENSION OF 2ND FLOOR, FINISHING WORKS & EXTERNAL DEVELOPMENT OF CONFUCIUS
INSTITUTE AT UNIVERSITY OF AGRICULTURE, FAISALABAD - (PACKAGE - 01)**
HVAC SYSTEM:

Ite m #	MRS Ref#	Description of Items.	Unit	Quantity	Rate Quoted by the Contractor	Amount (PKR)
		SCHEDULE ITEMS:				
1	Ch.27 /1 (P.21 7)	Supplying, fabrication and installation of duct using prime quality hot dipped G.I sheet metal (Z-275) of specified thickness including the cost of hangers, tees, bends, reducers, elbows, turning vanes and splitter etc coupled with jointing sealant, mounting supports @8ft/c and smoke testing charges complete in all respect as approved and directed by the Engineer Incharge				
b)	(iii)	24-SWG	Per Sft	1000.00		
2	Ch.27 /3 (P.21 6)	Supplying, fabrication and installation of welded type grease exhaust duct of specified diameter, using prime quality MS sheet of 14 SWG duly welded i/c the cost of hangers, tees, bends, reducers, elbows, cleanout access panel, mounting supports @ 6ft c/c complete in all respects as approved and directed by the Engineer Incharge.	Per Sft	400.00		
3	Ch.27 /5 (iv) (P.21 6)	Supply, wrapping of 3"thick foil-faced Rock wool thermal Insulation of 65kg/m3 density with built in GI wire mesh as per specifications and drawings conforming to BS5422:2009 complete in all respect as approved and directed by the Engineer Incharge.	Per Sft	400.00		

Contractor

Executive Engineer

4	Ch.27 /9 a(i) (P.21 8)	Providing and installation of Supply & Return/Exhaust Air grilles made of specified material Electrostatic oven Cured Powder Coated/Anodized 1 mm thick having horizontal and vertical adjustable deflecting bars, grilles with minimum of 75% free area complete in all respects as approved and directed by the Engineer Incharge .	Per Sft	10.00		
5	Ch.27 /11 (ii) (P.21 9)	Providing and installing opposed blade Volume Dampers of Prime Quality G.I sheet of specified thickness 18 Gauge, (The quadrant volume dampers hall be muti-leaf type, with a maximum blade width of 8", heavy duty quadrant operators of brass withstand off mountings on thermally insulated ducts to provide clearance between the duct surface and operator, equal to the thickness of the insulation, capable of being locked at desired position conveniently, provided with a baked enamel finish complete in all respects as approved and directed by the Engineer Incharge.	Per Sft	10.00		
6	Ch.27 /13 a(ii) (P.21 9)	Supply & Installation of duct flexible connector of specified material Robust Polyester with PVC Coating and 6" width as per drawings with all accessories and fittings complete in all respect as approved and directed by Engineer Incharge.	Per Rft	6.00		
7	Ch.27 /19 (ii) (P.22 2)	Supply & Installation of washable aluminium metal mesh filter consists primarily of layers of aluminium slit and expanded into mesh of differing densities duly fixed in frame of specified thickness 2" for Fans fabricated with in. 12 mesh layers at fresh air intake on outside of Fans as approved and directed by Engineer Incharge.	Per Sft	5.00		

Contractor

Executive Engineer

8	Ch.27 /20 (P.22 2)	Supply & Installation of Powder coated/extruded anodized rectangular/Square aluminium louver duly fixed in frame of specified thickness for intake/Exhaust air with fine finishing as approved and directed by Engineer Incharge.	Per Sft	5.00		
SCHEDULE ITEMS-TOTAL AMOUNT (PKR.)						
<u>HVAC SYSTEM-NON SCHEDULE ITEMS</u>						
9	NSI	Supply, Installation, Testing and Commissioning of Wall Mounted Commercial Kitchen Exhaust Hood with of approved make and a quality, all to the satisfaction & approval of the Engineer Incharge. Size 12' x 3'	Each	1.00		
10	NSI	Supply, Installation, Testing and Commissioning of Wall Mounted Commercial Kitchen Exhaust Hood with of approved make and a quality, all to the satisfaction & approval of the Engineer Incharge. Size 4' x 3'	Each	1.00		
11		Supply, Installation, Testing and Commissioning of following Exhaust & Supply fans of approved make and a quality including wiring , all to the satisfaction & approval of the Engineer Incharge.				
i)		Wall Mounted Propeller Fan				
a)	NSI	EF -1	Each	16.00		
b)	NSI	EF -2	Each	2.00		
ii)		Inline Centrifugal Fan				
a)	NSI	SAF-3	Each	1.00		
iii)		Kitchen Exhaust Fan				

Contractor

Executive Engineer

a)	NSI	KEF -3	Each	1.00		
		NON-SCHEDULE ITEMS- TOTAL AMOUNT (PKR).				
		G. TOTAL AMOUNT (PKR.)				

Contractor

Executive Engineer

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

FIRE FIGHTING WORKS:

Sr. #	MRS Ref#	Description of Items.	Unit	Quantity	Rate Quoted by the Contractor	Amount (PKR)
		NON SCHEDULE ITEMS:				
1	NSI	Supply, installation, testing & commissioning of MS Seamless ASTM - A53 Grade B Schedule 40 pipe including all fittings (Tee, Sockets, Reducer, Bend) special fitting, Equipment Connecting Point, complete in all respects including sleeves coating, wrapping and painting as shown on drawings & specifications, including hanger, Supports, loading/unloading and delivery at site.				
a)		40 mm Diameter (1.5")	Rft	120.00		
b)		100 mm Diameter (4")	Rft	350.00		
c)		150 mm Diameter (6")	Rft	1225.00		

Contractor

Executive Engineer

2	NSI	Supply, installation, testing & commissioning of valves & equipment imported/ equivalent make as approved by the Engineer complete in all respects to their entire satisfaction including all accessories (flanges, bolts, gaskets, thread compounds, blind flanges at battery limit etc.) and jointing material complete in all respects and as per Specifications and Drawings. Also includes all labelling and sinage of all firefighting system.				
a)		NRV (6")	Each	2.00		
b)		Strainer (6")	Each	2.00		
c)		OS & Y Valve 100 mm Diameter (4")	Each	1.00		
d)		OS & Y Valve 150 mm Diameter (6")	Each	3.00		
e)		Gate Valve 40 mm Diameter (1.5")	Each	6.00		
f)		Pressure Reducer Valve (1.5")	Each	6.00		
g)		Automatic Air Vent (1.5")	Each	2.00		
		NON-SCHEDULE ITEMS- TOTAL AMOUNT (PKR.)				

Contractor

Executive Engineer

SUMMARY OF COST

2. Remaining & Finishing Works of Women Sports Complex (Squash Courts, Gymnasium, Swimming Pool, Multipurpose Hall) at University of Agriculture, Faisalabad

SR#	DESCRIPTION	AMOUNT (Rs)
01	Ladies Exercise Hall (Building Portion, Public Health & Electric Installation)	
02	Squash Court (Building Portion, Public Health & Electric Installation)	
03	Squash Championship (Court 1-No.) & Qualifying Courts (3-No). ASB Front wall, Side Wall, Flooring and Back Glass with Lighting System	
04	Multi-Purpose Hall (Building Portion, Public Health & Electric Installation)	
05	Swimming Pool (Building Portion, Public Health & Electric Installation)	
06	Swimming Pool Machinery / Equipment	
07	Boundary Wall	
	Total	
	Add 5% PRA	
	Grand Total	

Contractor

Executive Engineer

**Remaining & Finishing Works of Women Sports Complex (Squash Courts, Gymnasium, Swimming Pool, Multipurpose Hall) at University of Agriculture, Faisalabad
(D.N.I.T)**

LADIES EXERCISE HALL AT AGRICULTURE UNIVERSITY FAISALABAD.

ABSTRACT OF COST

S.N .		Description	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
1	Ch: 10 P-71 Item 27	Rubbing and polishing grit floor, including repairing voids uneven surface, complete in all respects	2413	%Sft		
2	Ch: 3 P-29 Item 15 (ii)	Filling, watering and ramming earth under floors:- with new earth excavated from outside, lead upto 2 mile.	1207	%oCft		
3	Ch: 7 P-57 Item 30	Supplying and filling sand under floor; or plugging in wells.	198	%Cft		
4	Ch: 10 P-68 Item 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.	193	%Cft		
5	Ch: 6 P-41 Item 5 (f)	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1: 2: 4	63	%Cft		
6	Ch: 10 P-69 Item 15 (c)	Providing and laying topping of cement concrete 1:2:4, including surface finishing and dividing in panels:- 1½” thick	778	%Sft		

Contractor

Executive Engineer

7	Ch: 10 P-72 Item 40 (b)	Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels Size 1½" x ¼" (40 x 6 mm)	313	P.Rft		
8	Ch: 12 P-81 Item 7 (b) (i)	Providing and fixing 1st class solid wood wrought joinery in panelled or panelled and glazed doors and windows of specified thickness with 1" thick solid wood panels with step and 1-1/2"x2-1/2" beadings all around the panels i/c the cost of Tower bolt and handles complete in all respect (Excluding the cost of sliding bolt,lock and chowkats (frame), etc.) as approved and directed by the Engineer Incharge Oak/Ash wood Door 2" thick (50 mm)	48	P.Sft		
9	Ch: 13 P-94 Item 7 (a)	French polishing complete:- on New surface.	324	%Sft		
10	Ch: 25 P-210 Item 66	Providing and fixing 2.00 ft deep M.Steel Lockers (Wardrobes) consisting of 1-1/4"x1-1/4"x3/16" angle Iron Frame & 1"x1"x1/8" MS Flat for center vertical bracing duly welded with MS sheet 24-SWG Sheet on all Sides, Back & Top and for partitions / Shelves and 1"x1"x1/8" Angle Iron for Leaf Frame duly welded with 18-SWG for Front Door and hinges and locking arrangement ,handles duly painted with hammar paint 3-coats complete in all respect as approved by the Engineer Incharge.	112	P.Sft		
11	Ch: 13 P-93 Item 5 (c)	Preparing surface and painting of doors and windows any type (including edges):- 3-coats.	378	%Sft		
12	Ch: 6 P-42 Item 6 (a) (i) 3	Reinforced cement concrete in roof slab, beams, columns, linters, girders, and other structural members laid in site or pre cast laid in position or prestressed members cost in site, complete in all respect (1:2:4).	5	P.Cft		
13	Ch: 6 P-45 Item 12 (c)	Fabrication of mild steel reinforcement for cement concrete i/ c cutting, bending, laying, in position, making joints and fastening i/ c cost of binding wire and labour charges for binding of steel reinforcement (Also i/c removal of rust from bars). Grade-60	15	%Kg		

Contractor

Executive Engineer

14	Ch: 10 P-74 Item 50 (i)	Providing and laying Prepolished Granite of specified thickness and shade of full width of approved quality laid with adhesive bond over 3/4" thick (1:2) cement sand mortar bed, complete in all respect as approved and directed by the Engineer Incharge. 3/4" thick	210	P.Sft		
15	Ch: 10 P-74 Item 50 (ii)	Providing and laying Prepolished Granite of specified thickness and shade of full width of approved quality laid with adhesive bond over 3/4" thick (1:2) cement sand mortar bed, complete in all respect as approved and directed by the Engineer Incharge. 1/2" thick	105	P.Sft		
16	Ch: 7 P-53 Item 5 (i)	Pacca brick work on ground floor in cement sand mortar in ration (1:6).	6	%Cft		
17	Ch: 11 P-76 Item 9 (b)	Cement Plaster 1:4 upto 20' (6.00 m) height 1/2" (13 mm) thick	588	%Sft		
18	Ch: 11 P-76 Item 10 (b)	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. 1:3.	20	%Sft		
19	Ch: 11 P-77 Item 22	Priming coat of chalk under distemper.	3258	%Sft		
20	Ch: 11 P-77 Item 23 (a) iii	Distempering:- new surface:- three coats	3258	%Sft		
21	Ch: 13 P-96 Item 31 (a+b)	Preparing surface and painting with emulsion paint 3-coats on new surface.	4177	%Sft		
22	Ch: 13 P-97 Item 33A (a) (i+ii)	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:	3912	%Sft		
23	Ch: 13 P-93 Item 5 (d) (i+ii)	Painting new surface:- Preparing surface and painting guard bars, gates of iron bars, gratings, railing (including standards, braces, etc.) and in similar open work:- 3-coats	1200	%Sft		

Contractor

Executive Engineer

24	Ch: 12 P-90 Item 61 (b) (ii+iii)	P/F 3/4" dia heavy duty sliding bolt of specified material i/c the cost of hardware complete in all respect as approved and directed by the Engineer Incharge.				
		12" dia Brass	3	Each		
		18" dia Brass	1	Each		
25	Ch: 12 P-84 Item 22	Providing and fixing, approved quality mortice lock.	2	Each		
26	Ch: 9 P-63 Item 15	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm) (Podium)	6	Each		
27	Ch: 9 P-63 Item 20 (a)	Cast iron rain water down pipe fixed in position, excluding heads and shoes, but including painting and clamps, etc:- 4" dia (100 mm) cast iron down pipe.	215	P.Rft		
28	Ch: 9 P-63 Item 21	Rain water down pipe cast iron head fixed in place, including cost of clamp holdfast and painting.	24	Each		
29	Ch: 9 P-63 Item 22	Shoes, bends or offsets for cast iron rain water down pipe, including fixing and painting.	24	Each		
		TOTAL-A				
		NON-STANDARDIZED ITEM				
1	NS	Providing and fixing PVC vinyl door 1¼" thick panel best quality round lock i/c tower bolt inside i/c fitting charges and painting 3-coats with existing chowkat complete in all respect as per approved design/ drawing and as approved by the Engineer incharge.	18	P.Sft		
		TOTAL-B				
		TOTAL-A+B				

Contractor

Executive Engineer

LADIES EXERCISE HALL AT AGRICULTURE UNIVERSITY FAISALABAD.

P.H PORTION
ABSTRACT OF COST

S.N.		Description	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
1	Ch: 23 P-159 Item 47 (b) (ii+iii)	Providing, laying, testing and commissioning of POLY PROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe made of (Dadex/ Popular/ Beta/ BBJ) with specified pressure rating PN (PRESSURE NOMINAL) and conforming to DIN 8077-8078 code i/c cost of solvent, specials, making jharries complete in all respect as approved and directed by Engineer Incharge.(Internal/External Diameters mentioned). PN-20 Pipe				
		1" dia (32mm)	48	P.Rft		
		3/4" dia (25mm)	15	P.Rft		
2	Ch: 23 P-148 Item 16 (b)	Providing and installing P.V.C. blind pipe, B.S.S. Class 'B', in tubewell bore hole, including sockets and solvents and jointing with strainer, etc. complete. 4" i/d (100 mm)	193	P.Rft		
3	Ch: 23 P-154 Item 39 (i) (b)	Providing & fixing PVC Tees 4" dia Complete in all respects "B Class".	4	Each		

Contractor

Executive Engineer

4	Ch: 19 P-132 Item 53 (iii)	Providing/ fixing Gas water heater (Geyser) of specified capacity, comprising of water tank made of 14 SWG steel sheet and cover with 20 SWG MS sheet, best quality of approved make of Corona/ Ambassador/ Super Asia/ Canon i/c the cost of non return valve, imported thermostat, G.I. accessories, safety valve and making connection with existing water supply pipeline complete in all respects as approved and directed by the Engineer Incharge. 55 Gallons	1	Each		
5	Ch: 23 P-158 Item 45 (ii)	P/F Ejector Pump of specified Suction and Delivery heads, coupled with Single Phase Seimen Electric Motor of required rating for water supply i/c the cost of connection charges, necessary wire, PVC pipe set complete in all respect as approved and directed by the Engineer Incharge. i) G-IV (2-1/2"x2") with 2.5 HP Electric Motor, 38-Mtr Suction and 38 M delivery head	1	Each		
6	Ch: 19 P-131 Item 49 (a) (i)	Providing, fixing, testing and commissioning of μ -PVC (Un-plasticized polyvinyl Chloride) Nikasi/ waste pipe Fittings make of dadex/ Popular/ Beta/ BBJ conforming to code EN-1401 including the cost of Solvents complete in all respect as approved and directed by the Engineer Incharge. (a) P-Trap 4" dia	4	Each		
7	Ch: 19 P-129 Item 36	Providing and fitting 10 cm (4") gully trap, including cement concrete, cost of PVC grating 15x15 cm (6"x6") and masonry chamber 30x30 cm (12"x12").	5	Each		
8	Ch: 19 P-125 Item 3	Providing and fitting European Coupled set of Water Closet (WC) and flushing Cistern of PORTA brand (full size) i/c the cost of CP/ rubber connection, thimble, seat cover and rawal bolts complete in all respects as approved and directed by the Engineer Incharge.	2	Each		
9	Ch: 19 P-125 Item 7 (i)	Providing and fitting glazed earthen ware wash hand basin 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc. i) white, with pedestal	3	Each		

Contractor

Executive Engineer

10	Ch: 19 P-132 Item 52 (ii)	Providing and fixing CP bath Room Set made of Sonex/ Master/ Faisal comprising of 3-No Tee stop cocks, lever type Basin Mixer, double Bib Cock, open wall shower, Muslim shower, waste coupling and bottle trap etc. complete in all respect as approved and directed by the Engineer incharge.				
		Lever Type Basin Mixer	3	Each		
		Double Bib Cock	3	Each		
		Muslim shower	3	Each		
11	Ch: 19 P-126 Item 13 (i)	Providing and fitting plastic made low down flushing cistern 1363 litre (3 gallons) capacity, including bracket set, copper connection, etc. complete. White	2	Each		
12	Ch: 19 P-128 Item 27 (ii)	Providing and fixing chromium plated bib cock:- 1.5 cm (½")	2	Each		
13	Ch: 19 P-128 Item 28	Providing and fixing chromium plated tee stop cock 15mm (½").	11	Each		
14	Ch: 19 P-130 Item 43	Providing and fitting nipple or bush, 6 mm to 10 mm (¼" to 3/8") i/d.	30	Each		
		TOTAL-A				
		<u>NON MRS ITEMS</u>				
1	NS	Providing and fixing heavy duty ball/ handle valve				
		3/4" dia	1	Each		
		1" dia	3	Each		
2	NS	Providing and fixing stainless steel floor trap jali 6"x6" size openable heavy type.	7	Each		
		TOTAL-B				

TOTAL A+B	
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Contractor

Executive Engineer

PRICED BILL OF QUANTITIES OF ELECTRICAL WORKS**LADIES EXERCISE HALL**

Sr. No.	Chpt.# -item.#	DESCRIPTION	QTY.	UNIT	Rate Quoted by the Contractor	Amount
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Part 01: MAIN PANEL BOARDS

		NON SCHEDULE ITEMS				
		<u>MAIN PANEL & SUB MAIN PANEL BOARDS</u>				
		Supply at site, fabrication, installation, testing, commissioning and connections of wires / cables of Main & Meter Panel Board to be installed as and where shown on drawing, made of MS sheet 14 SWG degreased and derusted, zinc phosphated, finished with electro-static powder coating of 95 -100 micron thickness in approved colour with hinged door, flexible earthing strap lockable handle, catcher, earthing bar, neutral bar, 3 Volt meter, 3CTs, 3- Ammeter, 3 Phase indication lights (R.Y.B), internal wiring 3 from MCCBs terminating on cable terminal blocks to be installed at the top of SMPB, including cost of Sets of Glands & lugs suitable for cables of sizes corresponding to the breaker				
		capacities & all necessary materials. complete in all respects. All MCCBs shall be installed inside the panel having a further M.S. protective sheet and accessible only by opening the front door. For detail see Schedule of breakers.				
1.01		Main Panel Board "MPB-GF" Main 250 Amp 25 KA TPMCCB 1-No. Outgoing 40-Amp 16 KA TPMCCB 1-No. 60-Amp 16 KA TPMCCB 2-No. 100-Amp 16 KA TPMCCB 2-No.	1	Each		
		Part 02: INTERNAL WIRING				
		SCHEDULE OF RATE FOR THE 1st BI-ANNUAL 2022				
2.01	24-3	supply & erection of PVC pipe for wiring recessed in walls, including inspection boxes, pull boxes, hooks, bends, cutting, jharries and repairing surface etc., complete with all specials,				
	iii)	25mm I/d	450	Rft		

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2.02	24-4	supply & erection of PVC pipe for wiring on surface, including clamps inspection boxes, pull boxes, bends, Tees, repairing surface etc., complete with all specials,				
a)	ii)	20mm I/d	200	Rft		
b)	iii)	25mm I/d	250	Rft		
	24-10	supply & erection of single core PVC insulated copper conductor cable in prelaid PVC pipe/M.S conduit/G.I. pipe/wooden strip, strip batten casing an capping / G.I. wire trenches (rate for cables only).				
2.03		<u>250/440 volts PVC insulated</u>				
	a	<u>For lights & fans</u>				
	i	3/0.74mm (3/0.029")	200	Rft		
2.04		<u>For Circuit (from DB to Switch board & switch board to switch board</u>				
	iii	7/0.74mm (7/0.029")	150	Rft		
2.05		<u>For Circuit (from DB to 15Amps Switch socket)</u>				
	iv	7/0.91mm (7/0.036")	650	Rft		
		<u>SWITCH SOCKET & OUTLETS</u>				
	24-103	P/F PVC double layer Switch kit Faceplate with specified switch holes i/c the cost of switches / sockets / dimmer made of Hi-Life / Bush / Schenider, screws complete as approved and directed by the Engineer Incharge				
2.06		Large gang				
	a (i)	4 Gang switch with plate.	7	Each		
2.07	a (ii)	6 Gang switch with plate.	3	Each		
2.08		Three pin light plug 10/13 Amp				
	a(iv)	working as 5/6 A 3 pin light plug	8	Each		
2.09	a(iv)	3 pin 15 Amps combined switch with socket outlets	10	Each		
2.10	a(vi)	Fan dimmer	10	Each		

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		TOTAL COST SCHEDULED ITEMS IN PAK Rs.				
Part 03: FITTINGS AND FIXTURES						
		SCHEDULE OF RATE FOR THE 1st BI-ANNUAL 2022				
	24-102	Providing and fixing Copper winded Exhaust fan with louver and shutter made of Pak/Younas/G.F.C. i/c the cost of necessary cable and hardware for connection from ceiling rose complete as approved and directed by Engineer Incharge.				
3.01	a (i)	Plastic Body				
		10" dia	2	Each		
		Personal Bath & etc area				
		TOTAL COST OF SCHEDULED ITEMS IN PAK Rs.				
NON SCHEDULE ITEMS						
		<u>LED /SMD /COB Fittings</u>				
		Supply, Installation, testing and commissioning of following LED/ SMD/ COB light fittings, ceiling, wall mounted or recessed in false ceiling made of MS sheet degreased and derusted with white enamelled non yellowing paint, complete with ballast, lamp holders, starters, power factor correction capacitor, lamps of colour 4000k internal wiring, earthing terminal, to be Make Philips / Sun Light / oppal/Luxron or as specified in annexure-"A". complete in all respects.				
3.02		Philips type GMP with 9 watt LED Rod				
		in Bath area	2	Each		
3.03		20 watt LED Lamp with Lamp Holder				
		exercise hall & reception lounge	35	Each		
3.04		Weather Proof wall Light 10 watt LED Lamp with Lamp Holder				
			12	Each		
3.05		10/12 watt LED Lamp with Lamp Holder				
		Bath, Store & commen area	6	Each		
		<u>Ceiling Fans</u>				

Contractor

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		Supply, installation and commissioning of following ceiling fans complete with copper winded, Energy Saver, capacitor, hanging rod, canopy, blades, nuts and bolts, make Royal, Asia, Pak. or as specified in Annexure “A”, including cost of all necessary accessories / materials, complete in all respects				
3.06		56" Sweep Ceiling Fans	10	Each		
		TOTAL COST OF NON SCHEDULED ITEMS IN PAK Rs.				
Part 4: CABLES AND CONDUITS						
SCHEDULE OF RATE FOR THE 1st BI-ANNUAL 2022						
	24-3	Supply & erection of PVC pipe for wiring recessed in walls, including inspection boxes, pull boxes, hooks, bends, hooks and cutting jharries and repairing surface etc., complete with all specials:				
4.01	(iv)	25mm I/d	135	Rft		
4.02	vi)	50mm I/d	-	Rft		
	24-6	Supply & erection of PVC pipe for recessed wiring (Main and Submain) purpose including inspection bends, specials, etc., in floor wall or trench:				
4.03		100mm I/d	300	Rft		
		<u>L.T. Power Cables</u>				
	24-13	Supply and erection of copper conductor cables for service connection, in prelaidd pipe/ G.I. wire/trenches, etc. (rate for cable only)				
		PVC insulated, PVC sheathed 4 core,				
	C	660/1100 volt non armoured cable:-				
4.04	Xi	4 core 35mm Sq PVC/PVC copper Conductor cable (From Main Protection Panel Board to Wapda transformer)	300	Rft		
4.05	24-10	Supply and Erection of single core PVC insulated cooper conductor cables,in prelaidd PVC pipe/M.S conduit/G.I pipe/wooden strip batten/wooden casing an capping /G.I wire/Trenches (rate for cable only):-				
	c(vi)	10 mm sq (7/0.052")	50	Rft		

Contractor

Executive Engineer

TOTAL COST OF SCHEDULED ITEMS IN PAK Rs.						
Part 05: EARTHING SYSTEM						
SCHEDULE OF RATE FOR THE 1st BI-ANNUAL 2022						
5.01	24-1	Supply and erection of G.I. pipes for wiring purposes, including pull boxes, inspection boxes, bends, tees, etc. complete with all specials.	200	Rft		
i)	(vi)	50 mm i/d				
	24-12	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 660/1100 volts grade cable, in prelaaid G.I. pipe/M.S. conduits/PVC pipe/G.I. wire/trenches etc (rate for cable only):-				
5.02	viii	1-Core 70 mm Sq (19/.083")	200	Rft		
TOTAL COST OF SCHEDULED ITEMS IN PAK Rs.						
NON SCHEDULED ITEMS						
5.03		<u>Earthing Bore</u>				
		Drilling of earth bore 4" dia 100 to 120ft. deep or up back filling, ramming, complete in all respect. Earthing bores shall be made at minimum 6'-0" away from foundation and distance between earth bore shall not be less than 10Ft. complete in all respects.	2	Each		
5.04		<u>Copper Rod</u>				
		Supply, installation and connections of earthing electrod 10ft long 1" dia including cost of brass coupling sockets nuts, bolts, washers, all necessary accessories, complete in all respects.	2	Each		
5.05		<u>Copper Conductor</u>				
		Supply, installation and connections of earthing leads consisting of stranded electrolytic copper conductor 1x 70 mm ² to be pulled in prelaaid G.I pipe and connected with Copper Rod, conductor shall be connected from copper rod to test link & desired Point as per detail shown or as per the instructions of the engineer. including cost of all fixing accessories like brass nuts, bolts, washers, all necessary accessories, complete in all respects. Actual Length shall be measured as per site & paid accordingly	240	Rf t		
5.06		<u>Earth Test Points (ETP)</u>				

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		Supply of earth Test Points consisting of copper plate to be installed inside Earth Manhole, complete with fixing arrangement, brass nuts bolts, washers, lugs, 1/2" dia. holes to facilitate connections of Incoming copper strips/ copper conductors & outgoing CPC. complete in all respects.	2	No.			
5.07		<u>Earthing Manhole</u>					
		Construction of brick 12"x12"x18" manhole with 9" thick wall with cement mortar internal plaster 1:4, RCC 4" thick manhole removable cover with lifting hooks, including cost of sealing compound to be used to seal the PVC pipe ends for incoming cables, 2 coats of hot bitumen on the external surface, complete in all respects with all necessary materials. complete in all respects.	2	No.			
5.08		<u>Testing</u>					
		Testing of the earthing system with "Earth Tester" along with other testing accessories. Testing shall be performed in the presence of the Engineer and written test result duly verified by the Engineer shall be submitted to the Client for his record. complete in all respects.	2	No.			
		TOTAL COST OF NON SCHEDULED ITEMS IN PAK Rs.					
		TOTAL COST OF Electrical work IN PAK Rs.					

Contractor

Executive Engineer

SQUASH COURT AT AGRICULTURE UNIVERSITY FAISALABAD.

ABSTRACT OF COST

S.N .	Chpt.#- item.#	Description	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
1	Ch: 3 P-30 Item 21 (a) ii	Excavation in foundation of building, bridges and other structure, i/ c dag belling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain and lift upto 5' (in ordinary) soil.	375	%oCft		
2	Ch: 6 P-41 Item 3 (e)	Cement concrete brick or stone ballast 1 ½" to 2" gauge in foundation and plinth (1:6:18).	83	%Cft		
3	Ch: 7 P-52 Item 4 (i)	Pacca brick work in foundation & plinth in cement sand mortar (1:6).	178	%Cft		
4	Ch: 6 P-41 Item 5 (i)	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1:4:8	7	%Cft		
5	Ch: 7 P-57 Item 30	Supplying and filling sand under floor; or plugging in wells.	249	%Cft		
6	Ch: 10 P-68 Item 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.	880	%Cft		
7	Ch: 3 P-29 Item 15 (ii)	Filling, watering and ramming earth under floors:- with new earth excavated from outside, lead upto 2 mile.	1509	%oCft		
8	Ch: 6 P-41 Item 5 (f)	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1: 2: 4	337	%Cft		

Contractor

Executive Engineer

9	Ch: 10 P-70 Item 22 (a)	1½”(40 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 1”(25 mm) thick floor of 1:2:4 cement concrete, including rubbing and polishing complete with finishing :- (a) using grey cement	1252	%Sft		
10	Ch: 10 P-69 Item 15 (c)	Providing and laying topping of cement concrete 1:2:4, including surface finishing and dividing in panels:- 1½” thick	1692	%Sft		
11	Ch: 10 P-72 Item 40 (b)	Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels Size 1½” x ¼” (40 x 6 mm)	1015	P.Rft		
12	Ch: 10 P-70 Item 24 (i)	Providing and laying superb quality Ceramic tile floors of Master brand of specified size, Glossy/ Matt/ Texture of approved Color and Shade as per approved design with adhesive bond, over ¾" thick (1;2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge. i) 12"x18"/ 12"x24"/ 10"x24"/ 8"x24"/ 12"x36"	1003	P.Sft		
13	Ch: 10 P-70 Item 25 (i)	Providing and laying superb quality Ceramic tile Dado of Master brand of specified size, Glossy/ Matt/ Texture Skirting/ Dado of approved Color and Shade as per approved design with adhesive bond, over ½" thick (1;2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge. i) 12"x18"/ 12"x24"/ 10"x24"/ 8"x24"/ 12"x36"	521	P.Sft		

Contractor

Executive Engineer

14	Ch: 10 P-74 Item 50 (i)	Providing and laying Prepolished Granite of specified thickness and shade of full width of approved quality laid with adhesive bond over 3/4" thick (1:2) cement sand mortar bed, complete in all respect as approved and directed by the Engineer Incharge. 3/4" thick	481	P.Sft		
15	Ch: 10 P-74 Item 50 (ii)	Providing and laying Prepolished Granite of specified thickness and shade of full width of approved quality laid with adhesive bond over 3/4" thick (1:2) cement sand mortar bed, complete in all respect as approved and directed by the Engineer Incharge. 1/2" thick	527	P.Sft		
16	Ch: 12 P-88 Item 51	P/F 1-1/2" thick solid flush door comprising of 2.5 mm thick Commercial ply compressed over 2.5 mm thick commercial ply over 1" thick packing wood in style and rails under proper pressure i/c the cost of nails, tower bolt, handles, glue, sawing charges, i/c C.P. Finger plate and aluminum kick plate Painting charges, and papering and 3/8" thick matching wooden lipping as approved and directed by the Engineer Incharge.	55	P.Sft		
17	Ch: 12 P-83 Item 17 (ii)	Providing and fixing 2" wide MS Chowkat single/ double rebate made of 16 SWG MS sheet pressed/ welded/ supported with M.S. flat 1-1/4"x1/8" i/c 6" long M.S. Flat 1"x1/8" holdfasts (6-Nos) welded/ screwed, punching of lock hole covered with MS Box, coating with anti rust paint including filling with cement sand mortar (1:8) and embedding holdfast in cement concrete (1:2:4), complete in all respect as approved and directed by Engineer Incharge. (10.5" wide)	193	P.Sft		

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18	Ch: 12 P-81 Item 7 (b) (i)	Providing and fixing 1st class solid wood wrought joinery in panelled or panelled and glazed doors and windows of specified thickness with 1" thick solid wood panels with step and 1-1/2"x2-1/2" beadings all around the panels i/c the cost of Tower bolt and handles complete in all respect (Excluding the cost of sliding bolt, lock and chowkats (frame), etc.) as approved and directed by the Engineer Incharge Oak/Ash wood Door 2" thick (50 mm)	59	P.Sft		
19	Ch: 10 P-71 Item 27	Rubbing and polishing grit floor, including repairing voids uneven surface, complete in all respects	1594	%Sft		
20	Ch: 7 P-53 Item 5 (i)	Pacca brick work on ground floor in cement sand mortar in ration (1:6).	26	%Cft		
21	Ch: 11 P-76 Item 11 (b)	Cement Plaster 1:5 upto 20' (6.00 m) height ½" (13 mm) thick	956	%Sft		
22	Ch: 6 P-42 Item 6 (a) (i) 3	Reinforced cement concrete in roof slab, beams, columns, lintels, girders, and other structural members laid in site or pre cast laid in position or prestressed members cost in site, complete in all respect (1:2:4).	8	P.Cft		
23	Ch: 6 P-45 Item 12 (c)	Fabrication of mild steel reinforcement for cement concrete i/ c cutting, bending, laying, in position, making joints and fastening i/ c cost of binding wire and labour charges for binding of steel reinforcement (Also i/c removal of rust from bars). Grade-60	25	%Kg		
24	Ch: 13 P-93 Item 5 (c)	Preparing surface and painting of doors and windows any type (including edges):- 3-coats.	1131	%Sft		
25	Ch: 12 P-90 Item 61 (b) (ii+iii)	P/F 3/4" dia heavy duty sliding bolt of specified material i/c the cost of hardware complete in all respect as approved and directed by the Engineer Incharge.				
		12" dia Brass	10	Each		

Contractor

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		18" dia Brass	13	Each		
26	Ch: 12 P-84 Item 21	Providing and fixing, approved quality mortice lock.	6	Each		
27	Ch: 9 P-63 Item 15	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm) (Podium)	7	Each		
28	Ch: 6 P-47 Item 31	Providing embedding 10" (250 mm) wide ¼" (6 mm) thick rubber water stopper in expansion joints of R.C.C. roof slab complete in all respects.	313	P.Rft		
29	Ch: 11 P-77 Item 23 (a) iii	Distempering:- new surface:- three coats	14915	%Sft		
30	Ch: 11 P-77 Item 22	Priming coat of chalk under distemper.	14915	%Sft		
31	Ch: 13 P-96 Item 31 (a+b)	Preparing surface and painting with emulsion paint 3-coats on new surface.	23504	%Sft		
32	Ch: 11 P-76 Item 10 (b)	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. 1:3.	213	%Sft		
33	Ch: 25 P-205 Item 33	Providing and fixing stair railing (all types and designs) of hard wood, including bends and corners, screwed to 5/8"x5/8" (16x16 mm) M.S. square bars 2.75 ft. (838 mm) high, at 5.5 inch (137 mm) inch centre to centre, fixed in steps of stairs, M.S. flat 1"x1/8" (25x3 mm) welded to bars, painting/polishing 3 coats, etc. complete.	73	P.Rft		
34	Ch: 11 P-77 Item 18 (a) + Ch: 11 P-78 Item 31	Cement pointing struck joints, on walls, upto 20' (6.00 m) height ratio 1:2 without Red Oxide Pigment	542	%Sft		
35	Ch: 13 P-97 Item 33A (a) (i+ii)	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:	11190	%Sft		

Contractor

Executive Engineer

36	Ch: 13 P-93 Item 5 (d) (i+ii)	Painting new surface:- Preparing surface and painting guard bars, gates of iron bars, gratings, railing (including standards, braces, etc.) and in similar open work:- 3-coats	947	%Sft		
37	Ch: 13 P-94 Item 7 (a)	French polishing complete:- on New surface.	124	%Sft		
38	Ch: 11 P-76 Item 9 (b)	Cement Plaster 1:4 upto 20' (6.00 m) height ½" (13 mm) thick	501	%Sft		
39	Ch: 25 P-210 Item 66	Providing and fixing 2.00 ft deep M.Steel Lockers (Wardrobes) consisting of 1-1/4"x1-1/4"x3/16" angle Iron Frame & 1"x1"x1/8" MS Flat for center vertical bracing duly welded with MS sheet 24-SWG Sheet on all Sides, Back & Top and for partitions / Shelves and 1"x1"x1/8" Angle Iron for Leaf Frame duly welded with 18-SWG for Front Door and hinges and locking arrangement ,handles duly painted with hammar paint 3-coats complete in all respect as approved by the Engineer Incharge.	196	P.Sft		
40	Ch: 12 P-90 Item 64	Providing and fixing 1-1/2" thick G.I sheet forged door comprising of G.I pressed double skin paneled sheet of 22 SWG in specified width of rails, Styles and panels pressed on both sides of fillet (Honey Comb paper), dully fixed in chowkat with Archtrative on one side, with heavy duty 4 No. steel hinges i/c M.S Tower bolt 9" long, M.S Sliding bolt 12" long, Rowel bolt for Hold Fast, duly powder coated paint and punching of required holes as approved and directed by the Engineer Incharge .	18	P.Sft		

Contractor

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41	Ch: 25 P-210 Item 64	Providing and fixing 2'-9" high stair railing comprising of non magnetic (304) Stain less steel 2" dia pipe railing of 18 SWG welded with vertical posts of 2" dia stainless steel round/ Squar pipe @ 2-ft c/c fixed on alternate steps with 3" long steel screws and brass rawal plugs , 3-Nos diagonal stainless steel pipes of 1/2" dia passes through goties fixed on vertical post, i/c stainles steel welding, fixing & polishing complete in all respects as approved and directed by the Engineer Incharge.	90	P.Rft		
42	Ch: 9 P-63 Item 20 (a)	Cast iron rain water down pipe fixed in position, excluding heads and shoes, but including painting and clamps, etc:- 4" dia (100 mm) cast iron down pipe.	465	P.Rft		
43	Ch: 9 P-63 Item 21	Rain water down pipe cast iron head fixed in place, including cost of clamp holdfast and painting.	24	Each		
44	Ch: 9 P-63 Item 22	Shoes, bends or offsets for cast iron rain water down pipe, including fixing and painting.	24	Each		
		TOTAL-A				
		NON-STANDARDIZED ITEM				
1	NS	Providing and fixing PVC vinyl door 1¼" thick panel best quality round lock i/c tower bolt inside i/c fitting charges and painting 3-coats with existing chowkat complete in all respect as per approved design/ drawing and as approved by the Engineer incharge.	158	P.Sft		
		TOTAL-A				
		TOTAL-A+B				

Contractor

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		<u>NON MRS ITEMS</u>				
		FOR CHAMPIONSHIP COURT				
1	NS	FRONT WALL Front Wall, 40 mm total construction thickness 18 mm thick wall elements having composition of iron elements with special glues with wooden components compressed into 18mm thick high density board to hold a life expectancy of 20 years made in Germany screwed minimum 300 times to the wall of the building. The front wall ends 500 mm above the out of play line profile. Walls are filled with fire dried silicate sand or Zero Grade Marble Chips. The surface of the Court Wall is coated with a special paint to fulfill the requirement of the Sport of Squash with a life expectancy of 5 years from Seevenax Germany. The wall is hard, flat and free of vertical joints. The out-of-play lines are made of drawn aluminum profiles. The out-of-play lines are concave and the convexity is red. No. of colour shade: RAL 3000 complete system supplied by M/S ASB Squash, Germany	336	P.Sft		
2	NS	Side Walls Front Wall, 40 mm total construction thickness 18 mm thick wall elements having composition of iron elements with special glues with wooden components compressed into 18mm thick high density board to hold a life expectancy of 20 years made in Germany screwed minimum 300 times to the wall of the building. The front wall ends 500 mm above the out of play line profile. Walls are filled with fire dried silicate sand or Zero Grade Marble Chips. The surface of the Court Wall is coated with a special paint to fulfil the requirement of the Sport of Squash with a life expectancy of 5 years from Seevenax Germany. The wall is hard, flat and free of vertical joints. The out-of-play lines are made of drawn aluminium profiles. The out-of-play lines are concave and the convexity is red. No. of colour shade: RAL 3000 complete system supplied by M/S ASB Squash, Germany	704	P.Sft		

Contractor

Executive Engineer

3	NS	<p>Sport Floor Sports floor consists of knot-free and multifold glued/ stapled by U pins anti slip parquet floor with deep impregnation and rough sanding having thickness 12.6mm multi layer boards from Germany. The parquet floor stapled directly onto the counter floor with spruce wooden planks distributed in cross layering making the floor elastic. The subfloor has to be attached with DIN Certified Rubber pads of 20mm from Germany. The surface is polished, depth impregnated and with wear-resistant marking lines. The construction thickness of the sport floor is 70 mm. The floor is according to the DIN 18032 from M/S ASB, Germany</p>	672	P.Sft		
4	NS	<p>Back Glass WallPro Glass Back Wall, Toughened onepane armoured security safety glass from SECURIT ® Germany with etching, 12 mm thick. The glass wall consists of two panels and one glass door, with white ceramic silk-screened lines bonded into the glass at 25 mm, centres, 610 mm. high and 2 mm wide. The clear entrance width is 914 mm (handicap access). The glass panels are fixed in aluminium profiles with aluminium restraining beam to the aluminium columns. The glass door is mounted laterally with thick gauge heavy duty Aluminium hinges made in Germany. The glass walls is being hold with high gauge aluminium beams and being supported by aluminium pillars. The door opens to the inside of the court. The aluminium crossbeam at a height of 2.13 m represents the out of play line. The out-of-play line profile is concave and the convexity is red. No. of colour shade: RAL 3000. by M/s ASB, Germany</p>	147	P.Sft		
5	NS	<p>Lighting Lighting for Squash Court having MS Powder Coated Frame with MS Steel Square Fence for Safety of lights with 6 x 18 W LED Tube Lights Philips Made laid as per squash standards for Uniformity throw, the colour of frame is white and edges are tilt outside for better flow of lights from M/s OHMS Lighting, Karachi</p>	9	P.Set		

Contractor

Executive Engineer

6	NS	Tin Tin made of Alu-sheet, 2,0 mm thick, coated with polyester varnish 25 my, double-layer construction, the back is coated with protective varnish, colour: RAL No. 9002 (white). Tin is height adjustable from 480 mm to 430 mm from finished floor level from M/s ASB, Germany	32	P.Sft		
		FOR QUALIFYING COURTS/ PRACTICE COURTS				
7	NS	Front Wall Glass Fiber reinforced cement composite, developed specially to withstand the constant impact of squash balls and rackets, the front wall has a tensile strength of glass fiber and the high compressive strength of a cement matrix, it is mixed with fiber matrix bonding agent to create a monolithic layer which is tough and flexible with , Sports Front Wall and Side Walls Paint Sport 2000 WSF Paint with High Quality Primer finish in a durable matt finish for all interior wood & masonry based on advance acrylic technology. Inhibits stains bleeding through substrate. The Colour shall be white non abrasive, should have clean ability . The paint shall be certified by Independent lab batch by batch. The paint shall be World Squash Federation Approved. The Paint shall be imported from M/s Rebound, UK	3,120	P.Sft		
8	NS	Sport Floor Sports floor consists of knot-free and multifold glued/ stapled by U pins anti slip parquet floor with deep impregnation and rough sanding having thickness 12.6mm multi layer boards from Germany. The parquet floor stapled directly onto the counter floor with spurge wooden planks distributed in cross layering making the floor elastic. The subfloor has to be attached with DIN Certified Rubber pads of 20mm from Germany. The surface is polished, depth impregnated and with wear-resistant marking lines. The construction thickness of the sport floor is 70 mm. The floor is according to the DIN 18032 from M/S ASB, Germany	2,016	P.Sft		

Contractor

Executive Engineer

9	NS	Back Glass Wall Pro Glass Back Wall, Toughened onepane armoured security safety glass from SECURIT ® Germany with etching, 12 mm thick. The glass wall consists of two panels and one glass door, with white ceramic silk-screened lines bonded into the glass at 25 mm, centres, 610 mm. high and 2 mm wide. The clear entrance width is 914 mm (handicap access). The glass panels are fixed in aluminium profiles with aluminium restraining beam to the aluminium columns. The glass door is mounted laterally with thick gauge heavy duty Aluminium hinges made in Germany. The glass walls is being hold with high gauge aluminium beams and being supported by aluminium pillars. The door opens to the inside of the court. The aluminium crossbeam at a height of 2.13 m represents the out of play line. The out-of-play line profile is concave and the convexity is red. No. of colour shade: RAL 3000. by M/s ASB, Germany	441	P.Sft		
10	NS	Lighting Lighting for Squash Court having MS Powder Coated Frame with MS Steel Square Fence for Safety of lights with 6 x 18 W LED Tube Lights Philips Made laid as per squash standards for Uniformity throw, the colour of frame is white and edges are tilt outside for better flow of lights from M/s OHMS Lighting, Karachi	27	P.Set		
11	NS	Tin Tin made of Alu-sheet, 2,0 mm thick, coated with polyester varnish 25 my, double-layer construction, the back is coated with protective varnish, colour: RAL No. 9002 (white). Tin is height adjustable from 480 mm to 430 mm from finished floor level from M/s ASB, Germany	96	P.Sft		
		TOTAL-B				

Contractor

Executive Engineer

SQUASH COURT AT AGRICULTURE UNIVERSITY FAISALABAD.

P.H PORTION
ABSTRACT OF COST

S.N	Chpt. #- item.#	Description	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
1	Ch: 23 P-159 Item 47 (b) (ii)	Providing, laying, testing and commissioning of POLY PROPYLENE RANDOM COPOL YMER (PPRC) water supply pipe made of (Dadex/ Popular/ Beta/ BBJ) with specified pressure rating PN (PRESSURE NOMINAL) and conforming to DIN 8077-8078 code i/c cost of solvent, specials, making jharries complete in all respect as approved and directed by Engineer Incharge.(Internal/External Diameters mentioned). PN-20 Pipe				
		1" dia (32mm)	175	P.Rft		
		3/4" dia (25mm)	59	P.Rft		
2	Ch: 23 P-148 Item 16 (b)	Providing, laying, Cutting ,jointing ,testing and disinfecting PVC pipes of B.S.S with class B Class working pressure pipe complete in all respects as per satisfaction of the Engineer. 4" Dia	82	P.Rft		
3	Ch: 23 P-154 Item 39 (i) (b)	Providing & fixing PVC Tees 4" dia Complete in all respects "B Class".	10	Each		

Contractor

Executive Engineer

4	Ch: 19 P-132 Item 53 (iii)	Providing/ fixing Gas water heater (Geyser) of specified capacity, comprising of water tank made of 14 SWG steel sheet and cover with 20 SWG MS sheet, best quality of approved make of Corona/ Ambassador/ Super Asia/ Canon i/c the cost of non return valve, imported thermostat, G.I. accessories, safety valve and making connection with existing water supply pipeline complete in all respects as approved and directed by the Engineer Incharge. 55 Gallons	1	Each		
5	Ch: 23 P-158 Item 45 (ii)	P/F Ejector Pump of specified Suction and Delivery heads, coupled with Single Phase Seimen Electric Motor of required rating for water supply i/c the cost of connection charges, necessary wire, PVC pipe set complete in all respect as approved and directed by the Engineer Incharge. i) G-IV (2-1/2"x2") with 2.5 HP Electric Motor, 38-Mtr Suction and 38 M delivery head	3	Each		
6	Ch: 19 P-131 Item 48 (a) (i)	Providing, fixing, testing and commissioning of μ -PVC (Un-plasticized polyvinyl Chloride) Nikasi/ waste pipe Fittings make of dadex/ Popular/ Beta/ BBJ conforming to code EN-1401 including the cost of Solvents complete in all respect as approved and directed by the Engineer Incharge. (a) P-Trap 4" dia	16	Each		
7	Ch: 19 P-129 Item 36	P/F gully trap 4" size i/c cement concrete cost of PVC grating 6" x 6" and masonry chamber 12" x 12"	10	Each		
8	Ch: 19 P-125 Item 3	Providing and fitting European Coupled set of Water Closet (WC) and flushing Cistern of PORTA brand (full size) i/c the cost of CP/ rubber connection, thimble, seat cover and rawal bolts complete in all respects as approved and directed by the Engineer Incharge.	4	Each		

Contractor

Executive Engineer

9	Ch: 19 P-125 Item 5	Providing and fitting white glazed earthen ware water closet, squatting type, with separate foot rest.	4	Each		
10	Ch: 19 P-125 Item 7 (i)	Providing and fitting glazed earthen ware wash hand basin 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc. i) white, with pedestal	6	Each		
11	Ch: 19 P-132 Item 52 (ii)	Providing and fixing CP bath Room Set made of Sonex/ Master/ Faisal comprising of 3-No Tee stop cocks, lever type Basin Mixer, double Bib Cock, open wall shower, Muslim shower, waste coupling and bottle trap etc. complete in all respect as approved and directed by the Engineer incharge.				
		Lever Type Basin Mixer	6	Each		
		Double Bib Cock	8	Each		
		Muslim shower	8	Each		
		Open Type Wall Shower	3	Each		
12	Ch: 19 P-128 Item 13 (i)	Providing and fitting plastic made low down flushing cistern 1363 litre (3 gallons) capacity, including bracket set, copper connection, etc. complete. White	6	Each		
13	Ch: 19 P-130 Item 27 (ii)	Providing and fixing chromium plated bib cock:- 1.5 cm (1/2")	4	Each		
14	Ch: 19 P-130 Item 28	Providing and fixing chromium plated tee stop cock 15mm (1/2").	25	Each		
15	Ch: 19 P-132 Item 43	Providing and fitting nipple or bush, 6 mm to 10 mm (1/4" to 3/8") i/d.	35	Each		

Contractor

Executive Engineer

16	Ch: 19 P-126 Item 8	P/F stain less steel sink with brain board size 120 x 60 cm (48" x 24") i/c bracket set, waste pipe and waste coupling.	2	Each		
17	Ch: 19 P-126 Item 11	Providing and fixing glazed earthen ware flat back urinal.	4	Each		
18	Ch: 19 P-127 Item 23	Providing and fixing BATHROOM ACCESSORIES (7-piece set) MASTER BRAND - One Cosmetic Shelf, One Towel rod with bracket, One soap dish, One double hook, One towel ring, brush holder, toilet paper holder & looking glass i/c the cost of hardwares etc complete in all respect as approved and directed by the Engineer incharge.				
	i)	Plastic soap dish	10	Each		
	ii)	Plastic toilet paper holder	10	Each		
	iii)	Plastic tower rail	10	Each		
	iv)	Looking glass with plastic frame	6	Each		
		TOTAL-A				
		<u>NON MRS ITEMS</u>				
1	NS	Providing and fixing heavy duty ball/ handle valve				
		3/4" dia	1	Each		
		1" dia	5	Each		
2	NS	Providing and fixing stainless steel floor trap jali 6"x6" size openable heavy type.	20	Each		
3	NS	Providing and fixing sink mixer.	2	Each		
		TOTAL-B				
		TOTAL A+B				

Contractor

Executive Engineer

PRICED BILL OF QUANTITIES OF ELECTRICAL WORKS

SQUASH COURTS

Sr. No.	Chpt.#- item.#	DESCRIPTION	QTY.	UNIT	Rate Quoted by the Contractor	AMOUNT
1.01	24-93	POWER FACTOR PLANT				
		P/F PFI PLANT (Power Factor Improvement Plant) comprising of components of required ratings, in MS box of 14 SWG i/c the cost of 3mm thick Backelite sheet(Safety Sheet) Lock, thimbles, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, brass glands, Indication lights, Push buttons, CTs, Contactors, Controle MCB, Surge Suppressors, Auto/ Manual Switches, Exhaust Fan,Temp regulators as per WAPDA standards complete in all respects as approved and directed by the Engineer Incharge.				
		Installed with LT Panel 01				
	ii)	100KVAr	1	Each		
1.02	24-94	Providing and fixing DB/Panel accessories of required rating and size i/c copper screws of approved brand Complete in all respect as approved and directed by the Engineer Incharge.				
	xiii (b)	25 KVAR	4	Each		
1.03	24-90	P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights,Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter,Digital Ammeter,Volt Selector Switch,Ammeter selector switch,Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately				
a)		6" deep				
		ii) 75~100A (30"x22"x6")	1	C.ft		

Contractor

Executive Engineer

1.04	24-86	Supplying, Installation and commissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge				
a)		Single Pole				
ii)		6-40 Amp (6 KA)	36	Each		
1.05	24-87	Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
a)		Tripple Pole				
iii)		15-100 Amp(18 KA)	1	Each		
		TOTAL AMOUNT IN PAK Rs.				
		NON SCHEDULE ITEMS				
		<u>MAIN PANEL & SUB MAIN PANEL BOARDS</u>				
		Supply at site, fabrication, installation, testing, commissioning and connections of wires / cables of Main & Meter Panel Board to be installed as and where shown on drawing, made of MS sheet 14 SWG degreased and derusted, zinc phosphated, finished with electro-static powder coating of 95 -100 micron thickness in approved colour with hinged door, flexible earthing strap lockable handle, catcher, earthing bar, neutral bar, 3 Volt meter, 3CTs, 3- Ammeter, 3 Phase indication lights (R.Y.B), internal wiring 3 from MCCBs terminating on cable terminal blocks to be installed at the top of SMPB, including cost of Sets of Glands & lugs suitable for cables of sizes corresponding to the breaker				
		capacities & all necessary materials. complete in all respects. All MCCBs shall be installed inside the panel having a further M.S. protective sheet and accessible only by opening the front door. For detail see Schedule of breakers.				
1.03		Main Panel Board "MPB-GF"	1	Each		

Contractor

Executive Engineer

		Part 02: INTERNAL WIRING				
		SCHEDULE OF RATE FOR THE 1st BI-ANNUAL 2022				
2.01	24-3	supply & erection of PVC pipe for wiring recessed in walls, including inspection boxes, pull boxes, hooks, bends, cutting, jharries and repairing surface etc., complete with all specials,				
	iii)	25mm I/d	150	Rft		
2.02	24-4	supply & erection of PVC pipe for wiring on surface, including clamps inspection boxes, pull boxes, bends, Tees, repairing surface etc., complete with all specials,				
a)	ii)	20mm I/d	200	Rft		
b)	iii)	25mm I/d	250	Rft		
	24-10	supply & erection of single core PVC insulated copper conductor cable in prelaid PVC pipe/M.S conduit/G.I. pipe/wooden strip, strip batten casing an capping / G.I. wire trenches (rate for cables only).				
2.03		<u>250/440 volts PVC insulated</u>				
	a	<u>For lights & fans</u>				
	i	3/0.74mm (3/0.029")	450	Rft		
2.04		<u>For Circuit (from DB to Switch board & switch board to switch board</u>				
	iii	7/0.74mm (7/0.029")	380	Rft		
2.05		<u>For Circuit (from DB to 15Amps Switch socket)</u>				
	iv	7/0.91mm (7/0.036")	680	Rft		
		<u>SWITCH SOCKET & OUTLETS</u>				
	24-103	P/F PVC double layer Switch kit Faceplate with specified switch holes i/c the cost of switches / sockets / dimmer made of Hi-Life / Bush / Schenider, screws complete as approved and directed by the Engineer Incharge				
2.06	a (ii)	2 Gang switch with plate.	2	Each		
2.07		Large gang				
	a (i)	4 Gang switch with plate.	5	Each		

Contractor

Executive Engineer

2.08	a (ii)	6 Gang switch with plate.	5	Each		
2.09		Three pin light plug 10/13 Amp				
	a(iv)	working as 5/6 A 3 pin light plug	10	Each		
2.10	a(iv)	3 pin 15 Amps combined switch with socket outlets	10	Each		
2.11	a(vi)	Fan dimmer	4	Each		
2.06	b (i)	1 Gang two way switch plate.	2	Each		
		TOTAL COST SCHEDULED ITEMS IN PAK Rs.				
		Part 03: FITTINGS AND FIXTURES				
		SCHEDULE OF RATE FOR THE 1st BI-ANNUAL 2022				
	24-102	Providing and fixing Copper winded Exhaust fan with louver and shutter made of Pak/Younas/G.F.C. i/c the cost of necessary cable and hardware for connection from ceiling rose complete as approved and directed by Engineer Incharge.				
3.01	a (i)	Plastic Body				
		10" dia	1	Each		
		Personal Bath & etc arae				
3.02	a (i)	Steel Body				
		12" dia	4	Each		
		Commen Bath & etc arae				
3.03	a (ii)	Steel Body				
		18" dia	2	Each		
		Kitchen & etc arae				
		TOTAL COST OF SCHEDULED ITEMS IN PAK Rs.				
		NON SCHEDULE ITEMS				
		<u>LED /SMD /COB Fittings</u>				

Contractor

Executive Engineer

		Supply, Installation, testing and commissioning of following LED/ SMD/ COB light fittings, ceiling, wall mounted or recessed in false ceiling made of MS sheet degreased and derusted with white enamelled non yellowing paint, complete with ballast, lamp holders, starters, power factor correction capacitor, lamps of colour 4000k internal wiring, earthing terminal, to be Make Philips / Sun Light / oppal/Luxron or as specified in annexure-"A". complete in all respects.				
3.04		Philips type GMP with 9 watt LED Rod				
		in Bath area	8	Each		
3.05		Surface mounted panel LED 40 watt LED Rod				
		Squash Courts	108	Each		
3.06		Surface Mounted SMD Ceiling down lighter with 20 watts.				
		CONFERENCE area	6	Each		
3.07		15/18 watt LED Lamp with Lamp Holder				
		Office area	8	Each		
3.08		Weather Proof wall Light 10 watt LED Lamp with Lamp Holder	10	Each		
3.09		10/12 watt LED Lamp with Lamp Holder				
		Bath, Store & commen area	14	Each		
		<u>Ceiling Fans</u>				
		Supply, installation and commissioning of following ceiling fans complete with copper winded, Energy Saver, capacitor, hanging rod, canopy, blades, nuts and bolts, make Royal, Asia, Pak. or as specified in Annexure "A", including cost of all necessary accessories / materials, complete in all respects				
3.10		56" Sweep Ceiling Fans	4	Each		
		Bracket fans				

Contractor

Executive Engineer

3.11		Supply, installation and commissioning of Bracket fans complete with copper winded, Energy Saver, capacitor, nuts and bolts, make Royal, Asia, Pak. or as specified in Annexure "A", including cost of all necessary accessories / materials, complete in all respects	6	Each		
TOTAL COST OF NON SCHEDULED ITEMS IN PAK Rs.						
Part 4: CABLES AND CONDUITS						
SCHEDULE OF RATE FOR THE 1st BI-ANNUAL 2022						
	24-3	Supply & erection of PVC pipe for wiring recessed in walls, including inspection boxes, pull boxes, hooks, bends, hooks and cutting jharries and repairing surface etc., complete with all specials:				
4.01	(iv)	25mm I/d	125	Rft		
4.02	vi)	50mm I/d	100	Rft		
	24-6	Supply & erection of PVC pipe for recessed wiring (Main and Submain) purpose including inspection bends, specials, etc., in floor wall or trench:				
4.03		100mm I/d	300	Rft		
		<u>L.T. Power Cables</u>				
	24-13	Supply and erection of copper conductor cables for service connection, in prelaid pipe/ G.I. wire/trenches, etc. (rate for cable only)				
		PVC insulated, PVC sheathed 4 core,				
	C	660/1100 volt non armoured cable:-				
4.04	viii	4 core 25mm Sq PVC/PVC copper Conductor cable (From Main Panel Board to DB1-GF)	100	Rft		
4.05	vii	4 core 16mm Sq PVC/PVC copper Conductor cable (From Main Panel Board to DB1-1F)	125	Rft		
4.06	Xi	4 core 50mm Sq PVC/PVC copper Conductor cable (From Main Protection Panel Board to Wapda transformer)	300	Rft		
4.07	24-10	Supply and Erection of single core PVC insulated cooper conductor cables,in prelaid PVC pipe/M.S conduit/G.I pipe/wooden strip batten/wooden casing an capping /G.I wire/Trenches (rate for cable only):-				

Contractor

Executive Engineer

	c(vi)	10 mm sq (7/0.052")	225	Rft		
		FOR EARTH CABLE				
TOTAL COST OF SCHEDULED ITEMS IN PAK Rs.						
Part 05: EARTHING SYSTEM						
SCHEDULE OF RATE FOR THE 1st BI-ANNUAL 2022						
5.01	24-1	Supply and erection of G.I. pipes for wiring purposes, including pull boxes, inspection boxes, bends, tees, etc. complete with all specials.	220	Rft		
i)	(vi)	50 mm i/d				
	24-12	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 660/1100 volts grade cable, in prelaid G.I. pipe/M.S. conduits/PVC pipe/G.I. wire/trenches etc (rate for cable only):-				
5.02	viii	1-Core 70 mm Sq (19./083")	230	Rft		
TOTAL COST OF SCHEDULED ITEMS IN PAK Rs.						
NON SCHEDULED ITEMS						
5.03		<u>Earthing Bore</u>				
		Drilling of earth bore 4" dia 100 to 120ft. deep or up back filling, ramming, complete in all respect. Earthing bores shall be made at minimum 6'-0" away from foundation and distance between earth bore shall not be less than 10'Ft. complete in all respects.	2	Each		
5.04		<u>Copper Rod</u>				
		Supply, installation and connections of earthing electrode 10ft long 1" dia including cost of brass coupling sockets nuts, bolts, washers, all necessary accessories, complete in all respects.	2	Each		
5.05		<u>Copper Conductor</u>				
		Supply, installation and connections of earthing leads consisting of stranded electrolytic copper conductor 1x 70 mm ² to be pulled in prelaid G.I pipe and connected with Copper Rod, conductor shall be connected from copper rod to test link & desired Point as per detail shown or as per the instructions of the engineer. including cost of all fixing accessories like brass nuts, bolts, washers, all necessary accessories, complete in all respects. Actual Length shall be measured as per site & paid accordingly	240	Rf t		
5.06		<u>Earth Test Points (ETP)</u>				

Contractor

Executive Engineer

		Supply of earth Test Points consisting of copper plate to be installed inside Earth Manhole, complete with fixing arrangement, brass nuts bolts, washers, lugs, 1/2" dia. holes to facilitate connections of Incoming copper strips/ copper conductors & outgoing CPC. complete in all respects.	2	No.		
5.07		<u>Earthing Manhole</u>				
		Construction of brick 12"x12"x18" manhole with 9" thick wall with cement mortar internal plaster 1:4, RCC 4" thick manhole removable cover with lifting hooks, including cost of sealing compound to be used to seal the PVC pipe ends for incoming cables, 2 coats of hot bitumen on the external surface, complete in all respects with all necessary materials. complete in all respects.	2	No.		
5.08		<u>Testing</u>				
		Testing of the earthing system with "Earth Tester" along with other testing accessories. Testing shall be performed in the presence of the Engineer and written test result duly verified by the Engineer shall be submitted to the Client for his record. complete in all respects.	2	No.		
		TOTAL COST OF NON SCHEDULED ITEMS IN PAK Rs.				
		TOTAL COST OF ELECTRICAL WORK IN PAK Rs				

Contractor

Executive Engineer

MULTI PURPOSE HALL AT AGRICULTURE UNIVERSITY FAISALABAD.

ABSTRACT OF COST

S.N.	Chpt.# - item.#	Description	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
1	Ch: 3 P-30 Item 21 (a) ii	Excavation in foundation of building, bridges and other structure, i/c dag belling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain and lift upto 5' (in ordinary) soil.	1014	%oCft		
2	Ch: 26 P-214 Item 43	Spraying anti termite proofing by using liquid FMC Biflex 2.5%EC Mixing Ratio 1:50=137-Sft or using liquid MIRAGE Ali Akbar /RANGERS Auriga 5% SC Mixing Ability-HEXTAR Ratio 1:110=205-Sft or any other equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect .as approved by the Engineer Incharge.	10097	P.Sft		
3	Ch: 6 P-41 Item 3 (d)	Cement concrete brick or stone ballast 1 ½" to 2" gauge in foundation and plinth (1:6:12).	510	%Cft		
4	Ch: 7 P-52 Item 4 (i)	Pacca brick work in foundation & plinth in cement sand mortar (1:6).	2049	%Cft		
5	Ch: 7 P-53 Item 5 (i)	Pacca brick work on ground floor in cement sand mortar in ration (1:6).	490	%Cft		
6	Ch: 11 P-76 Item 10 (b)	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. 1:3.	1170	%Sft		
7	Ch: 11 P-76 Item 11 (b)	Cement Plaster 1:5 upto 20' (6.00 m) height ½" (13 mm) thick	11397	%Sft		
8	Ch: 11 P-76 Item 9 (b)	Cement Plaster 1:4 upto 20' (6.00 m) height ½" (13 mm) thick	7662	%Sft		

Contractor

Executive Engineer

9	Ch: 11 P-77 Item 18 (a) + Ch: 11 P-78 Item 31	Cement pointing struck joints, on walls, upto 20' (6.00 m) heightratio 1:2 without Red Oxide Pigment	4955	%Sft		
10	Ch: 7 P-57 Item 30	Supplying and filling sand under floor; or plugging in wells.	4174	%Cft		
11	Ch: 10 P-68 Item 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.	4174	%Cft		
12	Ch: 6 P-41 Item 5 (f)	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1: 2: 4	2110	%Cft		
13	Ch: 10 P-69 Item 15 (c)	Providing and laying topping of cement concrete 1:2:4, including surface finishing and dividing in panels:- 1½" thick	4557	%Sft		
14	Ch: 10 P-70 Item 22 (a)	1½"(40 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 1"(25 mm) thick floor of 1:2:4 cement concrete, including rubbing and polishing complete with finishing :- (a) using grey cement	1031	%Sft		
15	Ch: 10 P-72 Item 40 (b)	Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels Size 1½" x ¼" (40 x 6 mm)	14929	P.Rft		
16	Ch: 10 P-74 Item 50 (i)	Providing and laying Prepolished Granite of specified thickness and shade of full width of approved quality laid with adhesive bond over ¾" thick (1:2) cement sand mortar bed, complete in all respect as approved and directed by the Engineer Incharge. ¾" thick	587	P.Sft		
17	Ch: 10 P-74 Item 50 (ii)	Providing and laying Prepolished Granite of specified thickness and shade of full width of approved quality laid with adhesive bond over ¾" thick (1:2) cement sand mortar bed, complete in all respect as approved and directed by the Engineer Incharge. 1/2" thick	60	P.Sft		

Contractor

Executive Engineer

18	Ch: 12 P-81 Item 7 (b) (i)	Providing and fixing 1st class solid wood wrought joinery in panelled or panelled and glazed doors and windows of specified thickness with 1" thick solid wood panels with step and 1-1/2"x2-1/2" beadings all around the panels i/c the cost of Tower bolt and handles complete in all respect (Excluding the cost of sliding bolt, lock and chowkats (frame), etc.) as approved and directed by the Engineer Incharge Oak/Ash wood Door 2" thick (50 mm)	135	P.Sft		
19	Ch: 12 P-90 Item 61 (b) (ii+iii)	P/F 3/4" dia heavy duty sliding bolt of specified material i/c the cost of hardware complete in all respect as approved and directed by the Engineer Incharge.				
		12" dia Brass	3	Each		
		18" dia Brass	21	Each		
20	Ch: 10 P-71 Item 27	Rubbing and polishing grit floor, including repairing voids uneven surface, complete in all respects	554	%Sft		
21	Ch: 10 P-70 Item 24 (i)	Providing and laying superb quality Ceramic tile floors of Master brand of specified size, Glossy/ Matt/ Texture of approved Color and Shade as per approved design with adhesive bond, over 3/4" thick (1;2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge. i) 12"x18"/ 12"x24"/ 10"x24"/ 8"x24"/ 12"x36"	323	P.Sft		

Contractor

Executive Engineer

22	Ch: 25 P-208 Item 51	Providing and fixing all types of partly fixed and partly openable glazed bronze colour aluminium doors, using deluxe section of M/s Al-Cop or Pakistan Cables, having chowkat frame of size 40 x 100 mm (1½" x 4") and leaf frame of 60x40mm (2½"x1½") wide sections including the cost of ¼" (5 mm) thick imported tinted glass with aluminium triangular gola and rubber gasket to support the glass and leaf edging, using approved standard fittings, locks, 3" (75 mm) wide long handles etc., and hardware any required as approved by the engineer in-charge.	140	P.Sft		
23	Ch: 25 P-210 Item 64	Providing and fixing 2'-9" high stair railing comprising of non magnetic (304) Stain less steel 2" dia pipe railing of 18 SWG welded with vertical posts of 2" dia stainless steel round/ Squar pipe @ 2-ft c/c fixed on alternate steps with 3" long steel screws and brass rawal plugs , 3-Nos diagonal stainless steel pipes of 1/2" dia passes through goties fixed on vertical post, i/c stainles steel welding, fixing & polishing complete in all respects as approved and directed by the Engineer Incharge.	276	P.Rft		
24	Ch: 6 P-42 Item 6 (a) (i) 3	Reinforced cement concrete in roof slab, beams, columns, lintars, girders, and other structural members laid in site or pre cast laid in position or prestressed members cost in site, complete in all respect (1:2:4).	1030	P.Cft		
25	Ch: 6 P-45 Item 12 (c)	Fabrication of mild steel reinforcement for cement concrete i/ c cutting, bending, laying, in position, making joints and fastening i/ c cost of binding wire and labour charges for binding of steel reinforcement (Also i/c removal of rust from bars). Grade-60	3975	%Kg		
26	Ch: 10 P-72 Item 37 (a) (ii)	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: using gray cement: ½" thick (13 mm)	428	%Sft		

Contractor

Executive Engineer

27	Ch: 10 P-71 Item 29	Shisham wood boarding or strip flooring ¾" (20mm) thick (sawn to required size) tongued and grooved or splayed rebated fixed with brass screws on deodar wood battens 1½ "x2"(40 x 50 mm),size placed at 12"(300 mm) center to center, including two coats of bitumen laid hot on the base.	14148	%Sft		
28	Ch: 3 P-29 Item 15 (i)	Filling, watering and ramming earth under floors:- with surplus earth from foundation, etc.	676	%oCft		
29	Ch: 3 P-29 Item 15 (ii)	Filling, watering and ramming earth under floors:- with new earth excavated from outside, lead upto 2 mile.	3182	%oCft		
30	Ch: 12 P-88 Item 50	P/F 1-1/2" thick solid flush door comprising of 2.5 mm thick Commercial ply compressed over 2.5 mm thick commercial ply over 1" thick packing wood in style and rails under proper pressure i/c the cost of nails, tower bolt, handles, glue, sawing charges, i/c C.P. Finger plate and aluminum kick plate Painting charges, and papering and 3/8" thick matching wooden lipping as approved and directed by the Engineer Incharge.	646	P.Sft		
31	Ch: 25 P-208 Item 52	Providing and fitting all types of glazed aluminum windows of anodized bronze colour partly fixed and partly sliding using delux sections of approved manufacturer having frame size of 100 x 20 mm (4"x¾") and leaf frame sections of 50 x 20 mm (2"x¾"), all of 1.6mm thickness including 5 mm thick imported tinted glass with rubber gasket using approved standard latches, hardware etc., as approved by the Engineer in-charge	999	P.Sft		
ii)	Ch: 25 P-208 Item 53	Providing and fixing Aluminum Fly screen comprising of Fiber/ Aluminum wire guaze (Malasian) fixed in aluminum frame of approved manufacturer browns Colour/ powder coated of size 1½"x1½" and 1.6 mm thick with rubber gasket i/c cost of Hardware as approved and directed by the engineer incharge complete in all respect.	500	P.Sft		

Contractor

Executive Engineer

32	Ch: 25 P-209 Item 59 (i)	Providing and fixing M.S. grill fabricated with MS Square polished Vertical/horizontal Bars of specified size @ 4" c/c ' passed through punched holes in MS Patti of 1-1/4"x1/8" i/c the cost of 1-1/4"x1/8" MS patti for Frame of windows and painting 3 coat complete in all respect as approved and directed by the Engineer Incharge. 3/8" Squar Bars	999	P.Sft		
33	Ch: 10 P-73 Item 45 (i)	Providing and laying flooring with China Verona Marble having uniform texture (Spotless) of required size and specified thickness, with adhesive bond over 3/4" thick bedding of (1:2) cement sand mortar i/c the cost of matching sealer, cutting, grinding and chemical polishing complete in all respect as approved and directed by the Engineer Incharge. 1/2" thick(12"x12"/12"x24")	803	P.Sft		
34	Ch: 10 P-73 Item 45 (i)	Providing and fixing false ceiling comprises of Gypsum board laminated sheet of size 2'x2'/ 2'x3'/ 3'x3' of specified design and thickness i/c cost of fixtures i.e galvanized angle 1"x1" at wall sides, galvanized tee 1 1/4"x1" and 1 1/2"x1" both at 4' c/c (made of Taiwan CKM or equivalent), hanging with G.I/ Copper wire 16 SWG, G.I hook, Rawal Plug etc: complete in all respects as approved and directed by the Engineer Incharge. 12 mm thick	14148	P.Sft		
35	Ch: 13 P-93 Item 5 (c)	Preparing surface and painting of doors and windows any type (including edges):- 3-coats.	2568	%Sft		
36	Ch: 13 P-97 Item 33A (a) (i+ii)	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: Upto 20' height.	21599	%Sft		
37	Ch: 11 P-77 Item 23 (a) iii	Distempering:- new surface:- three coats	1170	%Sft		

Contractor

Executive Engineer

38	Ch: 11 P-77 Item 22	Priming coat of chalk under distemper.	1170	%Sft		
39	Ch: 13 P-96 Item 31 (a+b)	Preparing surface and painting with emulsion paint 3-coats on new surface.	78115	%Sft		
40	Ch: 9 P-63 Item 15	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm) (Podium)	10	Each		
41	Ch: 13 P-93 Item 5 (d) (i+ii)	Painting new surface:- Preparing surface and painting guard bars, gates of iron bars, gratings, railing (including standards, braces, etc.) and in similar open work:- 3-coats	1998	%Sft		
42	Ch: 9 P-63 Item 20 (a)	Cast iron rain water down pipe fixed in position, excluding heads and shoes, but including painting and clamps, etc:- 4" dia (100 mm) cast iron down pipe.	573	P.Rft		
43	Ch: 9 P-63 Item 21	Rain water down pipe cast iron head fixed in place, including cost of clamp holdfast and painting.	42	Each		
44	Ch: 9 P-63 Item 22	Shoes, bends or offsets for cast iron rain water down pipe, including fixing and painting.	42	Each		
		TOTAL-A				

Contractor

Executive Engineer

MULTI PURPOSE HALL AT AGRICULTURE UNIVERSITY FAISALABAD.

P.H PORTION
ABSTRACT OF COST

S.N.	Chpt.#- item.#	Description	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
1	Ch: 23 P-159 Item 47 (b) (ii)	Providing, laying, testing and commissioning of POLY PROPYLENE RANDOM COPOL YMER (PPRC) water supply pipe made of (Dadex/ Popular/ Beta/ BBJ) with specified pressure rating PN (PRESSURE NOMINAL) and conforming to DIN 8077-8078 code i/c cost of solvent, specials, making jharries complete in all respect as approved and directed by Engineer Incharge.(Internal/External Diameters mentioned). PN-20 Pipe				
		1" dia (32mm)	414	P.Rft		
		3/4" dia (25mm)	200	P.Rft		
2	Ch: 23 P-148 Item 16 (b)	Providing, laying, Cutting ,jointing ,testing and disinfecting PVC pipes of B.S.S with class B Class working pressure pipe complete in all respects as per satisfaction of the Engineer. 4" Dia	409	P.Rft		
3	Ch: 19 P-132 Item 53 (iii)	Providing/ fixing Gas water heater (Geyser) of specified capacity, comprising of water tank made of 14 SWG steel sheet and cover with 20 SWG MS sheet, best quality of approved make of Corona/ Ambassador/ Super Asia/ Canon i/c the cost of non return valve, imported thermostat, G.I. accessories, safety valve and making connection with existing water supply pipeline complete in all respects as approved and directed by the Engineer Incharge. 55 Gallons	2	Each		

Contractor

Executive Engineer

4	Ch: 23 P-158 Item 45 (ii)	P/F Ejector Pump of specified Suction and Delivery heads, coupled with Single Phase Seimen Electric Motor of required rating for water supply i/c the cost of connection charges, necessary wire, PVC pipe set complete in all respect as approved and directed by the Engineer Incharge. i) G-IV (2-1/2"x2") with 2.5 HP Electric Motor, 38-Mtr Suction and 38 M delivery head	1	Each		
5	Ch: 19 P-128 Item 31 (i+ii+iii)	Providing and fixing gun metal peet/gate valve (screwed):-				
		30 mm (1¼") dia	2	Each		
		40 mm(1½") dia	2	Each		
		50 mm(2") dia	2	Each		
6	Ch: 19 P-128 Item 33 (i+ii)	Providing and fixing, union brass cock.				
		1/2" dia	2	Each		
		3/4" dia	2	Each		
7	Ch: 19 P-131 Item 48 (a) (i)	Providing, fixing, testing and commissioning of µ-PVC (Un-plasticized polyvinyl Chloride) Nikasi/ waste pipe Fittings make of dadex/ Popular/ Beta/ BBJ conforming to code EN-1401 including the cost of Solvents complete in all respect as approved and directed by the Engineer Incharge.(a) P-Trap 4" dia	16	Each		
8	Ch: 19 P-129 Item 36	P/F gully trap 4" size i/c cement concrete cost of PVC grating 6" x 6" and masonry chamber 12" x 12"	16	Each		
9	Ch: 19 P-125 Item 3	Providing and fitting European Coupled set of Water Closet (WC) and flushing Cistern of PORTA brand (full size) i/c the cost of CP/ rubber connection, thimble, seat cover and rawal bolts complete in all respects as approved and directed by the Engineer Incharge.	6	Each		

Contractor

Executive Engineer

10	Ch: 19 P-125 Item 5	Providing and fitting white glazed earthen ware water closet, squatter type, with separate foot rest.	6	Each		
11	Ch: 19 P-125 Item 7 (i)	Providing and fitting glazed earthen ware wash hand basin 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc. i) white, with pedestal	16	Each		
12	Ch: 19 P-132 Item 52 (iii)	Providing and fixing CP bath Room Set made of Sonex/ Master/ Faisal comprising of 3-No Tee stop cocks, lever type Basin Mixer, double Bib Cock, open wall shower, Muslim shower, waste coupling and bottle trap etc. complete in all respect as approved and directed by the Engineer incharge. Lever Type Basin Mixer	16	Each		
		Open Type Wall Shower	4	Each		
		Double Bib Cock	12	Each		
		Muslim shower	12	Each		
13	Ch: 19 P-126 Item 13 (i)	Providing and fitting plastic made low down flushing cistern 1363 litre (3 gallons) capacity, including bracket set, copper connection, etc. complete. White	6	Each		
14	Ch: 19 P-128 Item 28	Providing and fixing chromium plated tee stop cock 15mm (1/2").	60	Each		
15	Ch: 19 P-130 Item 43	Providing and fitting nipple or bush, 6 mm to 10 mm (1/4" to 3/8") i/d.	90	Each		
16	Ch: 23 P-154 Item 38 (ii) (e)	Providing and installing P.V.C. bends, of B.S.S. 4" dia (for Rain water down pipe)	6	Each		
17	Ch: 19 P-127 Item 23	Providing and fixing BATHROOM ACCESSORIES (7-piece set) MASTER BRAND - One Cosmetic Shelf, One Towel rod with bracket, One soap dish, One double hook, One towel ring, brush holder, toilet paper holder & looking glass i/c the cost of hardwares etc complete in all respect as approved and directed by the Engineer incharge.				
	i)	Plastic soap dish	16	Each		

Contractor

Executive Engineer

	ii)	Plastic toilet paper holder	16	Each		
	iii)	Plastic tower rail	16	Each		
	iv)	Looking glass with plastic frame	6	Each		
		TOTAL-A				
		<u>NON MRS ITEMS</u>				
1	NS	Providing and fixing stainless steel floor trap jali 6"x6" size openable heavy type.	40	Each		
2	NS	Providing and fixing heavy duty ball/ handle valve				
		½" dia	6	Each		
		¾" dia	4	Each		
		1" dia	4	Each		
		1¼" dia	4	Each		
		TOTAL-B				
		TOTAL A+B				

Contractor

Executive Engineer

PRICED BILL OF QUANTITIES OF ELECTRICAL WORKS**MULTIPURPOSE HALL**

Sr. No.	Chpt. #- item. #	DESCRIPTION	QTY.	UNIT	Rate Quoted by the Contractor	AMOUNT
1.01	24-93	POWER FACTOR PLANT				
		P/F PFI PLANT (Power Factor Improvement Plant) comprising of components of required ratings, in MS box of 14 SWG i/c the cost of 3mm thick Backelite sheet(Safety Sheet) Lock, thimbles, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, brass glands, Indication lights, Push buttons, CTs, Contactors, Controle MCB, Surge Suppressors, Auto/ Manual Switches, Exhaust Fan,Temp regulators as per WAPDA standards complete in all respects as approved and directed by the Engineer Incharge.				
		Installed with LT Panel 01				
	ii)	100KVAr	1	Each		
1.02	24-94	Providing and fixing DB/Panel accessories of required rating and size i/c copper screws of approved brand Complete in all respect as approved and directed by the Engineer Incharge.				
	xii (b)	25 KVAR	6	Each		
1.03	24-90	P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights,Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter,Digital Ammeter,Volt Selector Switch,Ammeter selector switch,Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately				
	a)	6" deep				
		ii) 75~100A (30"x22"x6")	2	C.ft		

Contractor**Executive Engineer**

1.04	24-86	Supplying,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMANY/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screws,necessary wire complete in all respect as approved and directed by the Engineer Incharge				
a)		Single Pole				
ii)		6-40 Amp (6 KA)	60	Each		
1.05	24-87	Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
a)		Tripple Pole				
iii)		15-100 Amp(18 KA)	2	Each		
		TOTAL AMOUNT IN PAK Rs.				
		NON SCHEDULE ITEMS				
		<u>MAIN PANEL & SUB MAIN PANEL BOARDS</u>				
		Supply at site, fabrication, installation, testing, commissioning and connections of wires / cables of Main & Meter Panel Board to be installed as and where shown on drawing, made of MS sheet 14 SWG degreased and derusted, zinc phosphated, finished with electro-static powder coating of 95 -100 micron thickness in approved colour with hinged door, flexible earthing strap lockable handle, catcher, earthing bar, neutral bar, 3 Volt meter, 3CTs, 3-Ammeter, 3 Phase indication lights (R.Y.B), internal wiring 3 from MCCBs terminating on cable terminal blocks to be installed at the top of SMPB, including cost of Sets of Glands & lugs suitable for cables of sizes corresponding to the breaker				

Contractor

Executive Engineer

		capacities & all necessary materials. complete in all respects. All MCCBs shall be installed inside the panel having a further M.S. protective sheet and accessible only by opening the front door. For detail see Schedule of breakers.				
1.03		Main Panel Board "MPB-GF" Main 250 Amp 25 KA TPMCCB 1-No. Outgoing 40-Amp 16 KA TPMCCB 1-No. 60-Amp 16 KA TPMCCB 2-No. 100-Amp 16 KA TPMCCB 2-No.	1	Each		
		Part 02: INTERNAL WIRING				
SCHEDULE OF RATE FOR THE 1st BI-ANNUAL 2022						
2.01	24-3	supply & erection of PVC pipe for wiring recessed in walls, including inspection boxes, pull boxes, hooks, bends, cutting, jharries and repairing surface etc., complete with all specials,			-	
	iii)	25mm I/d	450	Rft		
2.02	24-4	supply & erection of PVC pipe for wiring on surface, including clamps inspection boxes, pull boxes, bends, Tees, repairing surface etc., complete with all specials,				
a)	ii)	20mm I/d	250	Rft		
b)	iii)	25mm I/d	1,500	Rft		
	24-10	supply & erection of single core PVC insulated copper conductor cable in prelaidd PVC pipe/M.S conduit/G.I. pipe/wooden strip, strip batten casing an capping / G.I. wire trenches (rate for cables only).				
2.02		<u>250/440 volts PVC insulated</u>				
	a	<u>For lights & fans</u>				
	i	3/0.74mm (3/0.029")	10,000	Rft		
2.03		<u>For Circuit (from DB to Switch board & switch board to switch board</u>				
	iii	7/0.74mm (7/0.029")	4,000	Rft		
2.04		<u>For Circuit (from DB to 15Amps Switch socket)</u>				

Contractor

Executive Engineer

	iv	7/0.91mm (7/0.036")	1,200	Rft		
		<u>SWITCH SOCKET & OUTLETS</u>				
	24-103	P/F PVC double layer Switch kit Faceplate with specified switch holes i/c the cost of switches / sockets / dimmer made of Hi-Life / Bush / Schenider, screws complete as approved and directed by the Engineer Incharge				
2.05		Large gang				
	a (i)	4 Gang switch with plate.	6	Each		
2.06	a (ii)	6 Gang switch with plate.	6	Each		
2.07		Three pin light plug 10/13 Amp				
	a(iv)	working as 5/6 A 3 pin light plug	12	Each		
2.08	a(iv)	3 pin 15 Amps combined switch with socket outlets	8	Each		
		TOTAL COST SCHEDULED ITEMS IN PAK Rs.				
		Part 03: FITTINGS AND FIXTURES				
		SCHEDULE OF RATE FOR THE 1st BI-ANNUAL 2022				
	24-102	Providing and fixing Copper winded Exhaust fan with louver and shutter made of Pak/Younas/G.F.C. i/c the cost of necessary cable and hardware for connection from ceiling rose complete as approved and directed by Engineer Incharge.				
3.01	a (i)	Steel Body				
		12" dia	6	Each		
		Commen Bath & etc arae				
		TOTAL COST OF SCHEDULED ITEMS IN PAK Rs.				
NON SCHEDULE ITEMS						
		LED /SMD /COB Fittings				

Contractor

Executive Engineer

		Supply, Installation, testing and commissioning of following LED/ SMD/ COB light fittings, ceiling, wall mounted or recessed in false ceiling made of MS sheet degreased and derusted with white enamelled non yellowing paint, complete with ballast, lamp holders, starters, power factor correction capacitor, lamps of colour 4000k internal wiring, earthing terminal, to be Make Philips / Sun Light / oppal/Luxron or as specified in annexure-"A". complete in all respects.				
3.02		Philips type GMP with 9 watt LED Rod				
		in Bath area	8	Each		
3.03		Surface mounted Ceiling hanging down LED 200 watt LED Light (120Lm/Watts)				
			24	Each		
3.04		15/18 watt LED Lamp with Lamp Holder				
		Office, Locker area & etc area	24	Each		
3.05		Weather Proof wall Light 10 watt LED Lamp with Lamp Holder				
			10	Each		
3.06		10/12 watt LED Lamp with Lamp Holder				
		Bath, & Store area	24	Each		
3.07		S/E of Ceiling Light size 2'x2'	130	Each		
3.08		S/E of Bracket Fans 24" sweep	16	Each		
3.09		S/E of ceiling fans 56" sweep	4	Each		
		TOTAL COST OF NON SCHEDULED ITEMS IN PAK Rs.				
Part 4: CABLES AND CONDUITS						

Contractor

Executive Engineer

SCHEDULE OF RATE FOR THE 1st BI-ANNUAL 2022						
	24-3	Supply & erection of PVC pipe for wiring recessed in walls, including inspection boxes, pull boxes, hooks, bends, hooks and cutting jharries and repairing surface etc., complete with all specials:				
4.01	(iv)	25mm I/d	135	Rft		
4.02	vi)	50mm I/d	-	Rft		
	24-6	Supply & erection of PVC pipe for recessed wiring (Main and Submain) purpose including inspection bends, specials, etc., in floor wall or trench:				
4.03		100mm I/d	250	Rft		
		<u>L.T. Power Cables</u>				
	24-13	Supply and erection of copper conductor cables for service connection, in prelaidd pipe/ G.I. wire/trenches, etc. (rate for cable only)				
		PVC insulated, PVC sheathed 4 core,				
	C	660/1100 volt non armoured cable:-				
4.04	viii	4 core 35mm Sq PVC/PVC copper Conductor cable (From Main Panel Board to DB1-GF)	125	Rft		
4.05	viii	4 core 25mm Sq PVC/PVC copper Conductor cable (From Main Panel Board to DB2-GF)	125	Rft		
4.06	Xii	4 core 95 mm Sq PVC/PVC copper Conductor cable (From Main Protection Panel Board to Wapda transformer)	250	Rft		

Contractor

Executive Engineer

4.07	24-10	Supply and Erection of single core PVC insulated cooper conductor cables,in prelaid PVC pipe/M.S conduit/G.I pipe/wooden strip batten/wooden casing an capping /G.I wire/Trenches (rate for cable only):-				
	c(vii)	16 mm sq (7/0.052")	250	Rft		
		FOR EARTH CABLE				
TOTAL COST OF SCHEDULED ITEMS IN PAK Rs.						
Part 05: EARTHING SYSTEM						
SCHEDULE OF RATE FOR THE 1st BI-ANNUAL 2022						
5.01	24-1	Supply and erection of G.I. pipes for wiring purposes, including pull boxes, inspection boxes, bends, tees, etc. complete with all specials.	200	Rft		
i)	(vi)	50 mm i/d				
	24-12	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 660/1100 volts grade cable, in prelaid G.I. pipe/M.S. conduits/PVC pipe/G.I. wire/trenches etc (rate for cable only):-				
5.02	viii	1-Core 70 mm Sq (19./0.083")	200	Rft		
		TOTAL COST OF SCHEDULED ITEMS IN PAK Rs.				
NON SCHEDULED ITEMS						
5.03		<u>Earthing Bore</u>				
		Drilling of earth bore 4" dia 100 to 120ft. deep or up back filling, ramming, complete in all respect. Earthing bores shall be made at minimum 6'-0" away from foundation and distance between earth bore shall not be less than 10'Ft. complete in all respects.	2	Each		
5.04		<u>Copper Rod</u>				

Contractor

Executive Engineer

		Supply, installation and connections of earthing electrode 10ft long 1" dia including cost of brass coupling sockets nuts, bolts, washers, all necessary accessories, complete in all respects.	2	Each		
5.05		Copper Conductor				
		Supply, installation and connections of earthing leads consisting of stranded electrolytic copper conductor 1x 70 mm ² to be pulled in pre-laid G.I pipe and connected with Copper Rod, conductor shall be connected from copper rod to test link & desired Point as per detail shown or as per the instructions of the engineer. including cost of all fixing accessories like brass nuts, bolts, washers, all necessary accessories, complete in all respects. Actual Length shall be measured as per site & paid accordingly	240	Rft		
5.06		Earth Test Points (ETP)				
		Supply of earth Test Points consisting of copper plate to be installed inside Earth Manhole, complete with fixing arrangement, brass nuts bolts, washers, lugs, 1/2" dia. holes to facilitate connections of Incoming copper strips/ copper conductors & outgoing CPC. complete in all respects.	2	No.		
5.07		Earthing Manhole				
		Construction of brick 12"x12"x18" manhole with 9" thick wall with cement mortar internal plaster 1:4, RCC 4" thick manhole removable cover with lifting hooks, including cost of sealing compound to be used to seal the PVC pipe ends for incoming cables, 2 coats of hot bitumen on the external surface, complete in all respects with all necessary materials. complete in all respects.	2	No.		
5.08		Testing				
		Testing of the earthing system with "Earth Tester" along with other testing accessories. Testing shall be performed in the presence of the Engineer and written test result duly verified by the Engineer shall be submitted to the Client for his record. complete in all respects.	2	No.		
		TOTAL COST OF NON SCHEDULED ITEMS IN PAK Rs.				
		TOTAL COST OF ELECTRICAL WORK IN PAK Rs				

Contractor

Executive Engineer

SWIMMING POOL AT AGRICULTURE UNIVERSITY FAISALABAD.

ABSTRACT OF COST

S.N.	Chp t.#- item. #	Description	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
1	Ch: 3 P-30 Item 21 (a) ii	Excavation in foundation of building, bridges and other structure, i/ c dag belling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain and lift upto 5' (in ordinary) soil.	3460	%oCft		
2	Ch: 26 P-214 Item 43	Spraying anti termite proofing by using liquid FMC Biflex 2.5%EC Mixing Ratio 1:50=137-Sft or using liquid MIRAGE Ali Akbar /RANGERS Auriga 5% SC Mixing Ability-HEXTAR Ratio 1:110=205-Sft or any other equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect .as approved by the Engineer Incharge.	10752	P.Sft		
3	Ch: 6 P-41 Item 5 (i)	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1:4:8	30289	%Cft		
4	Ch: 6 P-41 Item 5 (f)	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1:2:4	2276	%Cft		

Contractor

Executive Engineer

5	Ch: 6 P-47 Item 36 (a) (i)	Providing and laying damp proof course of cement concrete 1:2:4(using cement, sand and shingle), including bitumen coating: - with one coat bitumen and one coat polythene sheet 500gauge 1½" thick (40 mm)	555	%Sft		
6	Ch: 6 P-41 Item 3 (d)	Cement concrete brick or stone ballast 1 ½" to 2" gauge in foundation and plinth (1:6:12).	658	%Cft		
7	Ch: 7 P-52 Item 4 (i)	Pacca brick work in foundation & plinth in cement sand mortar (1:6).	2774	%Cft		
8	Ch: 3 P-29 Item 15 (i)	Filling, watering and ramming earth under floors:- with surplus earth from foundation, etc.	2308	%oCft		
9	Ch: 3 P-29 Item 15 (ii)	Filling, watering and ramming earth under floors:- with new earth excavated from outside, lead upto 2 mile.	203997	%oCft		
10	Ch: 12 P-88 Item 50	P/F 1-1/2" thick solid flush door comprising of 2.5 mm thick Commercial ply compressed over 2.5 mm thick commercial ply over 1" thick packing wood in style and rails under proper pressure i/c the cost of nails, tower bolt, handles, glue, sawing charges, i/c C.P. Finger plate and aluminum kick plate Painting charges, and papering and 3/8" thick matching wooden lipping as approved and directed by the Engineer Incharge.	251	P.Sft		
11	Ch: 12 P-83 Item 17 (ii)	Providing and fixing 2" wide MS Chowkat single/ double rebate made of 16 SWG MS sheet pressed/ welded/ supported with M.S. flat 1-1/4"x1/8" i/c 6" long M.S. Flat 1"x1/8" holdfasts (6-Nos) welded/ screwed, punching of lock hole covered with MS Box, coating with anti rust paint including filling with cement sand mortar (1:8) and embedding holdfast in cement concrete (1:2:4), complete in all respect as approved and directed by Engineer Incharge. (10.5" wide)	191	P.Sft		

Contractor

Executive Engineer

12	Ch: 12 P-81 Item 7 (b) (iii)	Providing and fixing 1st class solid wood wrought joinery in panelled or panelled and glazed doors and windows of specified thickness with 1" thick solid wood panels with step and 1-1/2"x2-1/2" beadings all around the panels i/c the cost of Tower bolt and handles complete in all respect (Excluding the cost of sliding bolt, lock and chowkats (frame), etc.) as approved and directed by the Engineer Incharge Oak/Ash wood Door 1½" thick (40 mm)	163	P.Sft		
13	Ch: 13 P-93 Item 5 (c)	Preparing surface and painting of doors and windows any type (including edges):- 3-coats.	1607	%Sft		
14	Ch: 12 P-90 Item 61 (b) (ii+iii)	P/F 3/4" dia heavy duty sliding bolt of specified material i/c the cost of hardware complete in all respect as approved and directed by the Engineer Incharge.				
		12" dia Brass	18	Each		
		18" dia Brass	4	Each		
15	Ch: 10 P-71 Item 27	Rubbing and polishing grit floor, including repairing voids uneven surface, complete in all respects	1430	%Sft		
16	Ch: 11 P-77 Item 23 (a) iii	Distempering:- new surface:- three coats	2863	%Sft		
17	Ch: 11 P-77 Item 22	Priming coat of chalk under distemper.	2863	%Sft		
18	Ch: 13 P-96 Item 31 (a+b)	Preparing surface and painting with emulsion paint 3-coats on new surface.	7176	%Sft		

Contractor

Executive Engineer

19	Ch: 13 P-93 Item 5 (d) (i+ii)	Painting new surface:- Preparing surface and painting guard bars, gates of iron bars, gratings, railing (including standards, braces, etc.) and in similar open work:- 3-coats	626	%Sft		
20	Ch: 10P-70 Item 24 (i)	Providing and laying superb quality Ceramic tile floors of Master/ Stile or equivalent of specified size, Glossy/ Matt/ Texture of approved Color and Shade as per approved design with adhesive bond, over 3/4" thick (1;2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge.i) 12"x18"/ 12"x24"/ 10"x24"/ 8"x24"/ 12"x36"	9307	P.Sft		
21	Ch: 10 P-70 Item 25 (i)	Providing and laying superb quality Ceramic tile Dado of Master / Stile or equivalent of specified size, Glossy/ Matt/ Texture Skirting/ Dado of approved Color and Shade as per approved design with adhesive bond, over 1/2" thick (1;2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge. i) 12"x18"/ 12"x24"/ 10"x24"/ 8"x24"/ 12"x36"	135	P.Sft		
22	Ch: 7 P-53 Item 5 (i)	Pacca brick work on ground floor in cement sand mortar in ration (1:6).	5783	%Cft		
23	Ch: 6 P-42 Item 6 (a) (iii) 3	Reinforcement of cement concrete in slab of rafts/ strip foundation, base of column and retaining walls: etc and other structural members other than these mentioned in above not requiring from work (i. e horizontal shuttering) complete in all respect (1:2:4).	91	P.Cft		
24	Ch: 6 P-42 Item 6 (a) (i) 3	Reinforced cement concrete in roof slab, beams, columns, linters, girders, and other structural members laid in site or pre cast laid in position or prestressed members cost in site, complete in all respect (1:2:4).	2560	P.Cft		
25	Ch: 6 P-42 Item 6 (a) (i) 2	Reinforced cement concrete in roof slab, beams, columns, linters, girders, and other structural members laid in site or pre cast laid in position or prestressed members cost in site, complete in all respect (1:1½:3).	349	P.Cft		

Contractor

Executive Engineer

ii)	Ch: 6 P-42 Item 6 (a) (i) 2 + Ch: 6 P-43 Item 6 (d)	----- do ----- (1:1½:3) (First Floor).	952	P.Cft		
26	Ch: 6 P-45 Item 12 (c)	Fabrication of mild steel reinforcement for cement concrete i/ c cutting, bending, laying, in position, making joints and fastening i/ c cost of binding wire and labour charges for binding of steel reinforcement (Also i/c removal of rust from bars). Grade-60	16984	%Kg		
27	Ch: 10 P-74 Item 50 (i)	Providing and laying Prepolished Granite of specified thickness and shade of full width of approved quality laid with adhesive bond over ¾" thick (1:2) cement sand mortar bed, complete in all respect as approved and directed by the Engineer Incharge. ¾" thick	24	P.Sft		
28	Ch: 11 P-76 Item 9 (b)	Cement Plaster 1:4 upto 20' (6.00 m) height ½" (13 mm) thick	54190	%Sft		
29	Ch: 7 P-57 Item 30	Supplying and filling sand under floor; or plugging in wells.	4798	%Cft		
30	Ch: 10 P-68 Item 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.	4798	%Cft		

Contractor

Executive Engineer

31	Ch: 10 P-72 Item 41 (b)	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion/ cgrouting with sand in joints i/c finishing to require slope complete in all respect. (50% Grey / 50% Coloured) 60mm	96594	P.Sft		
32	Ch: 10 P-69 Item 15 (c)	Providing and laying topping of cement concrete 1:2:4, including surface finishing and dividing in panels:- 1½" thick	3760	%Sft		
33	Ch: 10 P-72 Item 40 (b)	Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels Size 1½" x ¼" (40 x 6 mm)	14053	P.Rft		
34	Ch: 10 P-70 Item 22 (a)	1½"(40 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 1"(25 mm) thick floor of 1:2:4 cement concrete, including rubbing and polishing complete with finishing :- (a) using grey cement	384	%Sft		
35	Ch: 10 P-72 Item 37 (a) (ii)	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: using gray cement: ½" thick (13 mm)	2952	%Sft		
36	Ch: 13 P-97 Item 33A (a) (i+ii)	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:	17433	%Sft		

Contractor

Executive Engineer

37	Ch: 11 P-76 Item 10 (b)	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. 1:3.	4667	%Sft		
38	Ch: 10 P-73 Item 45 (i)	Providing and laying flooring with China Verona Marble having uniform texture (Spotless) of required size and specified thickness, with adhesive bond over 3/4" thick bedding of (1:2) cement sand mortar i/c the cost of matching sealer, cutting, grinding and chemical polishing complete in all respect as approved and directed by the Engineer Incharge. 1/2" thick(12"x12"/12"x24")	309	P.Sft		
39	Ch: 25 P-208 Item 52	Providing and fixing all types of partly fixed and partly openable glazed bronze colour aluminium doors, using deluxe section of M/s Al-Cop or Pakistan Cables, having chowkat frame of size 40 x 100 mm (1½" x 4") and leaf frame of 60x40mm (2½"x1½") wide sections including the cost of ¼" (5 mm) thick imported tinted glass with aluminium triangular gola and rubber gasket to support the glass and leaf edging, using approved standard fittings, locks, 3" (75 mm) wide long handles etc., and hardware any required as approved by the engineer in-charge.	208	P.Sft		
40	Ch: 25 P-210 Item 64	Providing and fixing 2'-9" high stair railing comprising of non magnetic (304) Stain less steel 2" dia pipe railing of 18 SWG welded with vertical posts of 2" dia stainless steel round/ Squar pipe @ 2-ft c/c fixed on alternate steps with 3" long steel screws and brass rawal plugs , 3-Nos diagonal stainless steel pipes of 1/2" dia passes through goties fixed on vertical post, i/c stainles steel welding, fixing & polishing complete in all respects as approved and directed by the Engineer Incharge.	172	P.Rft		
41	Ch: 25 P-205 Item 35	Providing and fixing terrace railing of 2" (50 mm) i/c 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 wit suitable arrangement, complete in all respects, as pe design and drawing	622	P.Rft		

Contractor

Executive Engineer

42	Ch: 11 P-77 Item 18 (a) + Ch: 11 P-78 Item 31	Cement pointing struck joints, on walls, upto 20' (6.00 m) height ratio 1:2 without Red Oxide Pigment	12853	%Sft		
43	Ch: 9 P-61 Item 5 + Ch: 26 P-214 Item 37 (ii)	Single layer of tiles 9" x 4 1/2" x 1 1/2" laid over 4" earth and 1" 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 included polythene sheet 500" gauge. (.005" thick)	324	%Sft		
44	Ch: 9 P-63 Item 15	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	3	Each		
45	Ch: 9 P-63 Item 20 (a)	Cast iron rain water down pipe fixed in position, excluding heads and shoes, but including painting and clamps, etc:- 4" dia (100 mm) cast iron down pipe.	573	P.Rft		
46	Ch: 9 P-63 Item 21	Rain water down pipe cast iron head fixed in place, including cost of clamp holdfast and painting.	3	Each		
47	Ch: 9 P-63 Item 22	Shoes, bends or offsets for cast iron rain water down pipe, including fixing and painting.	3	Each		
48	Base on MRS	P/L structural pad with gravinal material 70% sand and 30% crushed aggregate 3/4" down compacted 95% to 100% completed as per design and as approved by the Engineer Incharge (from sargodha quarry lead upto 75-KM).	5571	%Cft		
			TOTAL-A			

Contractor

Executive Engineer

SWIMMING POOL AT AGRICULTURE UNIVERSITY FAISALABAD.

P.H PORTION
ABSTRACT OF COST

S.N.	Chpt. #- item.#	Description	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
-	-	-	-	-	-	-
1	Ch: 23 P-159 Item 47 (b) (ii)	Providing, laying, testing and commissioning of POLY PROPYLENE RANDOM COPOL YMER (PPRC) water supply pipe made of (Dadex/ Popular/ Beta/ BBJ) with specified pressure rating PN (PRESSURE NOMINAL) and conforming to DIN 8077-8078 code i/c cost of solvent, specials, making jharries complete in all respect as approved and directed by Engineer Incharge.(Internal/External Diameters mentioned). PN-20 Pipe				
		1" dia (32mm)	1113	P.Rft		
		3/4" dia (25mm)	189	P.Rft		
2	Ch: 23 P-151 Item 28 (e+c+a+b)	Providing, laying, cutting, jointing, testing and disinfecting pipe line in trenches with PVC/ uPVC pipes of B.S.S. with 'D' Class working pressure complete in all respects:-				
		6" dia	175	P.Rft		
		4" dia	59	P.Rft		
		2" dia	186	P.Rft		
		3" dia	66	P.Rft		

Contractor

Executive Engineer

3	Ch: 23 P-151 Item 27 (b)	Providing, laying, Cutting ,jointing ,testing and disinfecting PVC pipes of B.S.S with class B Class working pressure pipe complete in all respects as per satisfaction of the Engineer. 4" Dia	354	P.Rft		
4	Ch: 23 P-154 Item 39 (i) (b)	Providing & fixing PVC Tees 4" dia Complete in all respects "B Class".	10	Each		
5	Ch: 19 P-132 Item 53 (iii)	Providing/ fixing Gas water heater (Geyser) of specified capacity, comprising of water tank made of 14 SWG steel sheet and cover with 20 SWG MS sheet, best quality of approved make of Corona/ Ambassador/ Super Asia/ Canon i/c the cost of non return valve, imported thermostat, G.I. accessories, safety valve and making connection with existing water supply pipeline complete in all respects as approved and directed by the Engineer Incharge. 55 Gallons	2	Each		
6	Ch: 23 P-158 Item 45 (ii)	P/F Ejector Pump of specified Suction and Delivery heads, coupled with Single Phase Seimen Electric Motor of required rating for water supply i/c the cost of connection charges, necessary wire, PVC pipe set complete in all respect as approved and directed by the Engineer Incharge. i) G-IV (2-1/2"x2") with 2.5 HP Electric Motor, 38-Mtr Suction and 38 M delivery head	2	Each		
7	Ch: 19 P-131 Item 48 (a) (i)	Providing, fixing, testing and commissioning of μ -PVC (Un-plasticized polyvinyl Chloride) Nikasi/ waste pipe Fittings make of dadex/ Popular/ Beta/ BBJ conforming to code EN-1401 including the cost of Solvents complete in all respect as approved and directed by the Engineer Incharge.(a) P-Trap 4" dia	16	Each		
8	Ch: 19 P-129 Item 36	P/F gully trap 4" size i/c cement concrete cost of PVC grating 6" x 6" and masonry chamber 12" x 12"	16	Each		
9	Ch: 19 P-125 Item 3	Providing and fitting European Coupled set of Water Closet (WC) and flushing Cistern of PORTA brand (full size) i/c the cost of CP/ rubber connection, thimble, seat cover and rawal bolts complete in all respects as approved and directed by the Engineer Incharge.	4	Each		
10	Ch: 19 P-125 Item 5	Providing and fitting white glazed earthen ware water closet, squatter type, with separate foot rest.	4	Each		

Contractor

Executive Engineer

11	Ch: 19 P-125 Item 7 (i)	Providing and fitting glazed earthen ware wash hand basin 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc. i) white, with pedestal	16	Each		
12	Ch: 19 P-132 Item 52 (iii)	Providing and fixing CP bath Room Set made of Sonex/ Master/ Faisal comprising of 3-No Tee stop cocks, lever type Basin Mixer, double Bib Cock, open wall shower, Muslim shower, waste coupling and bottle trap etc. complete in all respect as approved and directed by the Engineer incharge.				
		Lever Type Basin Mixer	16	Each		
		Double Bib Cock	6	Each		
		Muslim shower	6	Each		
		Open Type Wall Shower	6	Each		
13	Ch: 19 P-126 Item 13 (i)	Providing and fitting plastic made low down flushing cistern 1363 litre (3 gallons) capacity, including bracket set, copper connection, etc. complete. White	4	Each		
14	Ch: 19 P-128 Item 27 (ii)	Providing and fixing chromium plated bib cock:- 1.5 cm (½")	6	Each		
15	Ch: 19 P-128 Item 28	Providing and fixing chromium plated tee stop cock 15mm (½").	36	Each		
16	Ch: 19 P-130 Item 43	Providing and fitting nipple or bush, 6 mm to 10 mm (¼" to 3/8") i/d.	60	Each		
17	Ch: 19 P-127 Item 23	Providing and fixing BATHROOM ACCESSORIES (7-piece set) MASTER BRAND - One Cosmetic Shelf, One Towel rod with bracket, One soap dish, One double hook, One towel ring, brush holder, toilet paper holder & looking glass i/c the cost of hardwares etc complete in all respect as approved and directed by the Engineer incharge.				

Contractor

Executive Engineer

	i)	Plastic soap dish	40	Each		
	ii)	Plastic toilet paper holder	15	Each		
	iii)	Plastic tower rail	18	Each		
	iv)	Looking glass with plastic frame	16	Each		
			TOTAL-A			
		<u>NON MRS ITEMS</u>				
1	NS	Providing and fixing heavy duty ball/ handle valve				
		3/4" dia	3	Each		
		1" dia	6	Each		
2	NS	Providing and fixing stainless steel floor trap jali 6"x6" size openable heavy type.	20	Each		
			TOTAL-B			
			TOTAL A+B			

Contractor

Executive Engineer

PRICED BILL OF QUANTITIES OF ELECTRICAL WORKS

SWIMMING POOL

Sr. No.	Chpt.#- item.#	DESCRIPTION	QTY.	UNIT	Rate Quoted by the Contractor	Amount
1.01	24-93	POWER FACTOR PLANT				
		P/F PFI PLANT (Power Factor Improvement Plant) comprising of components of required ratings, in MS box of 14 SWG i/c the cost of 3mm thick Bakelite sheet(Safety Sheet) Lock, thimbles, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, brass glands, Indication lights, Push buttons, CTs, Contactors, Controle MCB, Surge Suppressors, Auto/ Manual Switches, Exhaust Fan,Temp regulators as per WAPDA standards complete in all respects as approved and directed by the Engineer Incharge.				
		Installed with LT Panel 01				
	ii)	100KVAr	1	Each		
1.02	24-94	Providing and fixing DB/Panel accessories of required rating and size i/c copper screws of approved brand Complete in all respect as approved and directed by the Engineer Incharge.				
	(b)	25 KVAR	4	Each		

Contractor

Executive Engineer

1.03	24-90	P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights,Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter,Digital Ammeter,Volt Selector Switch,Ammeter selector switch,Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately				
a)		6" deep				
		ii) 75~100A (30"x22"x6")	2	C.ft		
1.04	24-86	Supplying,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screws,necessary wire complete in all respect as approved and directed by the Engineer Incharge				
a)		Single Pole				
ii)		6-40 Amp (6 KA)	24	Each		
1.05	24-87	Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
a)		Tripple Pole				
iii)		15-100 Amp(18 KA)	2	Each		
			TOTAL AMOUNT IN PAK Rs.			
		NON SCHEDULE ITEMS				
		MAIN PANEL & SUB MAIN PANEL BOARDS				

Contractor

Executive Engineer

		Supply at site, fabrication, installation, testing, commissioning and connections of wires / cables of Main & Meter Panel Board to be installed as and where shown on drawing, made of MS sheet 14 SWG degreased and derusted, zinc phosphated, finished with electro-static powder coating of 95 -100 micron thickness in approved colour with hinged door, flexible earthing strap lockable handle, catcher, earthing bar, neutral bar, 3 Volt meter, 3CTs, 3- Ammeter, 3 Phase indication lights (R.Y.B), internal wiring 3 from MCCBs terminating on cable terminal blocks to be installed at the top of SMPB, including cost of Sets of Glands & lugs suitable for cables of sizes corresponding to the breaker				
		capacities & all necessary materials. complete in all respects. All MCCBs shall be installed inside the panel having a further M.S. protective sheet and accessible only by opening the front door. For detail see Schedule of breakers.				
1.03		Main Panel Board "MPB-GF" Main 250 Amp 25 KA TPMCCB 1-No. Outgoing 40-Amp 16 KA TPMCCB 1-No. 60-Amp 16 KA TPMCCB 2-No. 100-Amp 16 KA TPMCCB 2-No.	1	Each		
			TOTAL AMOUNT IN PAK Rs.			
		Part 02: INTERNAL WIRING				
SCHEDULE OF RATE FOR THE 1st BI-ANNUAL 2022						
2.01	24-3	supply & erection of PVC pipe for wiring recessed in walls, including inspection boxes, pull boxes, hooks, bends, cutting, jharries and repairing surface etc., complete with all specials,				
	iii)	25mm I/d	350	Rft		
2.02	24-4	supply & erection of PVC pipe for wiring on surface, including clamps inspection boxes, pull boxes, bends, Tees, repairing surface etc., complete with all specials,				
a)	ii)	20mm I/d	200	Rft		
b)	iii)	25mm I/d	100	Rft		

Contractor

Executive Engineer

	24-10	supply & erection of single core PVC insulated copper conductor cable in prelaaid PVC pipe/M.S conduit/G.I. pipe/wooden strip, strip batten casing an capping / G.I. wire trenches (rate for cables only).				
2.03		<u>250/440 volts PVC insulated</u>				
	a	<u>For lights & fans</u>				
	i	3/0.74mm (3/0.029")	250	Rft		
2.04		<u>For Circuit (from DB to Switch board & switch board to switch board</u>				
	iii	7/0.74mm (7/0.029")	150	Rft		
2.05		<u>For Circuit (from DB to 15Amps Switch socket)</u>				
	iv	7/0.91mm (7/0.036")	350	Rft		
		<u>SWITCH SOCKET & OUTLETS</u>				
	24-103	P/F PVC double layer Switch kit Faceplate with specified switch holes i/c the cost of switches / sockets / dimmer made of Hi-Life / Bush / Schenider, screws complete as approved and directed by the Engineer Incharge				
2.06	a (ii)	2 Gang switch with plate.	2	Each		
2.07		Large gang				
	a (i)	4 Gang switch with plate.	3	Each		
2.08	a (ii)	6 Gang switch with plate.	3	Each		
2.09		Three pin light plug 10/13 Amp				
	a(iv)	working as 5/6 A 3 pin light plug	4	Each		
2.10	a(iv)	3 pin 15 Amps combined switch with socket outlets	6	Each		
		TOTAL COST SCHEDULED ITEMS IN PAK Rs.				

Contractor

Executive Engineer

Part 03: FITTINGS AND FIXTURES						
SCHEDULE OF RATE FOR THE 1st BI-ANNUAL 2022						
	24-102	Providing and fixing Copper winded Exhaust fan with louver and shutter made of Pak/Younas/G.F.C. i/c the cost of necessary cable and hardware for connection from ceiling rose complete as approved and directed by Engineer Incharge.				
3.01	a (i)	Steel Body				
		12" dia	10	Each		
		Commen Bath & etc arae				
		TOTAL COST OF SCHEDULED ITEMS IN PAK Rs.				
NON SCHEDULE ITEMS						
		<u>LED /SMD /COB Fittings</u>				
		Supply, Installation, testing and commissioning of following LED/ SMD/ COB light fittings, ceiling, wall mounted or recessed in false ceiling made of MS sheet degreased and derusted with white enamelled non yellowing paint, complete with ballast, lamp holders, starters, power factor correction capacitor, lamps of colour 4000k internal wiring, earthing terminal, to be Make Philips / Sun Light / oppal/Luxron or as specified in annexure-"A". complete in all respects.				
3.02		Philips type GMP with 9 watt LED Rod				
		in Bath area	10	Each		
3.03		Surface mounted Flood LED 200 watt LED Light (120Lm/Watts)				
			12	Each		
3.04		Surface Mounted SMD Ceiling down lighter with 20 watts.				
			-	Each		
3.05		15/18 watt LED Lamp with Lamp Holder				

Contractor

Executive Engineer

		Office, Locker area & etc area	15	Each		
3.06		Weather Proof wall Light 10 watt LED Lamp with Lamp Holder				
			10	Each		
3.07		10/12 watt LED Lamp with Lamp Holder				
		Bath, & Store area	20	Each		
3.08		S/E of ceiling fans 56" sweep	10	Each		
		TOTAL COST OF NON SCHEDULED ITEMS IN PAK Rs.				
Part 4: CABLES AND CONDUITS						
SCHEDULE OF RATE FOR THE 1st BI-ANNUAL 2022						
	24-3	Supply & erection of PVC pipe for wiring recessed in walls, including inspection boxes, pull boxes, hooks, bends, hooks and cutting jharries and repairing surface etc., complete with all specials:				
4.01	(iv)	25mm I/d	135	Rft		
4.02	vi)	50mm I/d	-	Rft		
	24-6	Supply & erection of PVC pipe for recessed wiring (Main and Submain) purpose including inspection bends, specials, etc., in floor wall or trench:				
4.03		100mm I/d	200	Rft		
		<u>L.T. Power Cables</u>				
	24-13	Supply and erection of copper conductor cables for service connection, in prelaidd pipe/ G.I. wire/trenches, etc. (rate for cable only)				
		PVC insulated, PVC sheathed 4 core,				
	C	660/1100 volt non armoured cable:-				

Contractor

Executive Engineer

4.04	ix	4 core 35mm Sq PVC/PVC copper Conductor cable (From Main Panel Board to DB1-GF)	125	Rft		
4.05	vi	4 core 10mm Sq PVC/PVC copper Conductor cable (From Main Panel Board to DB2-GF)	50	Rft		
4.06	Xii	4 core 95 mm Sq PVC/PVC copper Conductor cable (From Main Protection Panel Board to Wapda transformer)	200	Rft		
4.07	24-10	Supply and Erection of single core PVC insulated cooper conductor cables,in prelaid PVC pipe/M.S conduit/G.I pipe/wooden strip batten/wooden casing an capping /G.I wire/Trenches (rate for cable only):-				
	c(vi)	16 mm sq (7/0.052")	175	Rft		
		FOR EARTH CABLE				
TOTAL COST OF SCHEDULED ITEMS IN PAK Rs.						
Part 05: EARTHING SYSTEM						
SCHEDULE OF RATE FOR THE 1st BI-ANNUAL 2022						
5.01	24-1	Supply and erection of G.I. pipes for wiring purposes, including pull boxes, inspection boxes, bends, tees, etc. complete with all specials.	200	Rft		
i)	(vi)	50 mm i/d				
	24-12	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 660/1100 volts grade cable, in prelaid G.I. pipe/M.S. conduits/PVC pipe/G.I. wire/trenches etc (rate for cable only):-				
5.02	viii	1-Core 70 mm Sq (19/.083")	200	Rft		
		TOTAL COST OF SCHEDULED ITEMS IN PAK Rs.				
NON SCHEDULED ITEMS						

Contractor

Executive Engineer

5.03		<u>Earthing Bore</u>				
		Drilling of earth bore 4" dia 100 to 120ft. deep or up back filling, ramming, complete in all respect. Earthing bores shall be made at minimum 6'-0" away from foundation and distance between earth bore shall not be less than 10Ft. complete in all respects.	2	Each		
5.04		<u>Copper Rod</u>				
		Supply, installation and connections of earthing electrode 10ft long 1" dia including cost of brass coupling sockets nuts, bolts, washers, all necessary accessories, complete in all respects.	2	Each		
5.05		<u>Copper Conductor</u>				
		Supply, installation and connections of earthing leads consisting of stranded electrolytic copper conductor 1x 70 mm ² to be pulled in pre-laid G.I pipe and connected with Copper Rod, conductor shall be connected from copper rod to test link & desired Point as per detail shown or as per the instructions of the engineer. including cost of all fixing accessories like brass nuts, bolts, washers, all necessary accessories, complete in all respects. Actual Length shall be measured as per site & paid accordingly	240	Rft		
5.06		<u>Earth Test Points (ETP)</u>				
		Supply of earth Test Points consisting of copper plate to be installed inside Earth Manhole, complete with fixing arrangement, brass nuts bolts, washers, lugs, 1/2" dia. holes to facilitate connections of Incoming copper strips/ copper conductors & outgoing CPC. complete in all respects.	2	No.		
5.07		<u>Earthing Manhole</u>				
		Construction of brick 12"x12"x18" manhole with 9" thick wall with cement mortar internal plaster 1:4, RCC 4" thick manhole removable cover with lifting hooks, including cost of sealing compound to be used to seal the PVC pipe ends for incoming cables, 2 coats of hot bitumen on the external surface, complete in all respects with all necessary materials. complete in all respects.	2	No.		
5.08		<u>Testing</u>				
		Testing of the earthing system with "Earth Tester" along with other testing accessories. Testing shall be performed in the presence of the Engineer and written test result duly verified by the Engineer shall be submitted to the Client for his record. complete in all respects.	2	No.		
		TOTAL COST OF NON SCHEDULED ITEMS IN PAK Rs.				

Contractor

Executive Engineer

SWIMMING POOL AT AGRICULTURE UNIVERSITY FAISALABAD.
MACHINERY/ EQUIPMENT FOR SWIMMING POOL

S.N.	Description		Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
-	-		-	-	-	-
1	Sand Filter 36" with Multiport Valve					
	Brand	Aqua / Minder / Corex / MIC				
	Made	China				
	Model	Q900				
	Tank Dia	900				
	Valve Size (mm)	50				
	Filter Area(m2)	0.64				
	Design Flow Rate	31.03m3/ hr				
	Material	Fiber Glass Reinforced with UV Resistant				
	Multiport Valve Type	Top mounted 6 way multiple valve made of ABS with connection air-bleed operation, valve and tank are flanged for clamp attachment valve position:				
	Valve connection size	2-Inches				
	Valve material	ABS				
	Operation	Filter, waste, closed, backwash, re-circulate and rinse with liquid oil filled pressure gauge with 3 union				
	Material	Fiber glass reinforced tank with UV resistant surface finish. Internal surface of the tank is finished with water resistant resin. Spherical tank with uniform wall thickness Uniquely designed distribution system makes a stable and efficient water flow.				
	Warranty of sand filter	1 Year				
	Re-Circulation Pump					
	Brand	LX				

Contractor

Executive Engineer

	Model	China				
	Type	Re-Circulation Pump				
	Model	WL-SCPB300				
	Horse Power	3 HP				
	Kilowatt	2.2				
	Max. Head	20 m				
	Max Flow	550 LPM				
	Voltage	220 / 1 / 50 Hz				
	Weight	24.5 Kg	6	Each		
2	Filter Media					
	Brand	Local				
	Material	Silica Sand				
	Type	Filteration Media				
	Size	1mm - 2mm	2,400	P.Kg		
3	SMD LED Pool Light					
	Brand	Olympic Pool				
	Made	China				
	Model	OP-03-1				
	Type	Flat Light				
	Product	Pool LED light with Infrared Remote Control				
	Power	18-watt				
	Lens Type & Qty	SMD2835, 162 LENS				
	Voltage	12-Volt				
	Material	ABS+PC				
	Size	295mm x 62mm				
	Colors Available	RGB				
	Waterproof Standard	IP68				

Contractor

Executive Engineer

	Cable	1.5 Meter	60	Each		
4	Transformer for Lights					
	Brand	Local				
	Type	Step Down Transformer for Pool Lights				
	Material	Pure copper wire				
	Output Wattage	Customized				
	Voltage In	220VAC, 50 Hz				
	Voltage Out	12 VAC	10	Each		
5	Junction/Connection Box for light					
	Brand	China				
	Model	15862				
	Material	ABS				
	Colour	White				
	Size	129mm x129mm	60	Each		
6	Wall Fittings - Inlets					
	Brand	Emaux				
	Model	EM4410				
	Product Code	88094412				
	Type	For Concrete Pool				
	Size	Dia 118.60mm				
	Description	G2A External Threaded Metric Dia 50mm Solvent Internal				
	Colour	White				
	Material	ABS				
	Angle	Adjustable	36	Each		
7	Suction/Vacuum Fittings					

Contractor

Executive Engineer

	Brand	Emaux				
	Model	EM2831				
	Product Code	88130812				
	Type	For Concrete Pool				
	Size	Dia 118.60mm				
	Description	G2A External Threaded Metric Dia 50mm Solvent Internal				
	Colour	White				
	Material	ABS				
	Angle	Adjustable	6	Each		
8	Main Drain					
	Brand	Laswim, China				
	Product	WL-JDP200AH				
	Colour	White				
	Side Connection	2"				
	Bottom Connection	1.5"				
	Cover Dia	193mm				
	Height	198.5mm				
	Max. Flow Rate	33.5 m3/h				
	Description	Curved Surface design, Anti-Suction, VGB Compliant and tested to ANSI/APSP-16 standards				
	Material	ABS sump w/ring & cover, UVresistant, corrosion resistant, not easy to fade, long life time.	6	Each		
9	Wide Mouth Wall Skimmer					
	Brand	Emaux				
	Model	EM0140-SC				
	Product	91601013				

Contractor

Executive Engineer

	Description	15LWide Mouth Skimmer for Concrete Pool				
	Flow Rate (L/Min)	150-120				
	Connection	1.5" & 2" Internal Threaded and 1.5" Internal Solvent				
	Total Mouth Length	450.2 mm				
	Total Mouth Height	234.6 mm				
	Color	White				
	Material	ABS	12	Each		
10	Pool Ladders 3 Step					
	Brand	Laswim				
	Made	China				
	Model	W-BFT203 / WL-SF203				
	Step	3 No.				
	Material	SS 304				
	Handrails Diameter	43mm				
	Type	Polished				
	Rust Warranty	Life Time	2	Each		
ii)	Pool Ladders 5 Step					
	Brand	Laswim				
	Made	China				
	Model	W-BFT205 / WL-SF205				
	Step	5 No.				
	Material	SS 304				
	Handrails Diameter	43mm				
	Type	Polished				
	Rust Warranty	Life Time	2	Each		

Contractor

Executive Engineer

11	Maintenance Kit (Commercial)					
i)	Vacuum Head Aluminum					
	Brand	Enjoy Water				
	Made	China				
	Type	Vacuum Head				
	Size	18-Inch				
	Head Material	Aluminum				
	Handle Material	Plastic				
ii)	Telescopic Rod					
	Brand	Enjoy Water				
	Made	China				
	Product	TS11218RS				
	Description	24' X 12' Telescopic Rod Ribbed Pole 1.1mm thick				
iii)	Vacuum Hose Pipe					
	Brand	Enjoy Water				
	Made	China				
	Type	Vacuum Hose Pipe				
	Product	VH/15m				
	Description	50 feet long vacuum hose pipe 1.5" Dia				
	Colour	Double				
iv)	Pool Net Deep					
	Brand	Enjoy Water				
	Made	China				
	Code	LS02BU/PE				
	Type	Deep net				
	Description	Standard deep bag rake				
	Material	PE Net				
v)	Curved Brushes					
	Brand	Enjoy Water				

Contractor

Executive Engineer

	Made	China				
	Product	BR03BU/P				
	Description	18"/46cm Standard curved Poly bristle wall brush				
vi)	Basic pH and chlorine test kit - Basic Line					
	Brand	Enjoy Water				
	Made	China				
	Code	TK01BU				
	Type	Test Kit				
	Specification	With OTO and phenol				
	Standard Volume	0.054 m3	1	P.Job		
12	UPVC Pipes and Fittings					
	Pipes and Fitting Size	2"				
	Schedule	40				
	Class	D				
	Specification	With Double Union Valve				
	Heater Bypass	Included	1	P.Job		
13	Installation and Supervision Charges – (3 Visit)		1	P.Job		
	TOTAL					

Contractor

Executive Engineer

SWIMMING POOL AT AGRICULTURE UNIVERSITY FAISALABAD.

BOUNDARY WALL

S.N.	Chpt #- item. #	Description	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
-	-	-	-	-	-	
1	Ch: 3 P-30 Item 21 (a) ii	Excavation in foundation of building, bridges and other structure, i/c dag belling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain and lift upto 5' (in ordinary) soil.	1180	%oCft		
2	Ch: 6 P-41 Item 3 (d)	Cement concrete brick or stone ballast 1 ½" to 2" gauge in foundation and plinth (1:6:12).	295	%Cft		
3	Ch: 6 P-43 Item 6 (a) (iii) 3	Reinforcement of cement concrete in slab of rafts/ strip foundation, base of column and retaining walls: etc and other structural members other than these mentioned in above not requiring from work (i. e horizontal shuttering) complete in all respect (1:2:4).	45	P.Cft		
4	Ch: 6 P-42 Item 6 (a) (i) 2	Reinforced cement concrete in roof slab, beams, columns, lintors, girders, and other structural members laid in site or pre cast laid in position or prestressed members cost in site, complete in all respect (1:1½:3).	304	P.Cft		
5	Ch: 6 P-42 Item 6 (a) (i) 3	Reinforced cement concrete in roof slab, beams, columns, lintors, girders, and other structural members laid in site or pre cast laid in position or prestressed members cost in site, complete in all respect (1:2:4).	219	P.Cft		

Contractor

Executive Engineer

6	Ch: 6 P-45 Item 12 (c)	Fabrication of mild steel reinforcement for cement concrete i/ c cutting, bending, laying, in position, making joints and fastening i/ c cost of binding wire and labour charges for binding of steel reinforcement (Also i/c removal of rust from bars). Grade-60	2865	%Kg		
7	Ch: 7 P-52 Item 4 (i)	Pacca brick work in foundation & plinth in cement sand mortar (1:6).	1389	%Cft		
8	Ch: 6 P-47 Item 36 (a) (i)	Providing and laying damp proof course of cement concrete 1:2:4(using cement, sand and shingle), including bitumen coating :- with one coat bitumen and one coat polythene sheet 500 gauge 1½” thick (40 mm)	146	%Sft		
9	Ch: 7 P-53 Item 7 (i)	Pacca brick work other than building upto 10ft. (3 m) height. Cement, sand mortar:- Ratio 1:6	5752	%Cft		
10	Ch: 11 P-76 Item 9 (b)	Cement Plaster 1:4 upto 20' (6.00 m) height ½" (13 mm) thick	5200	%Sft		
		TOTAL				

Contractor

Executive Engineer

SUMMARY OF COST

3. EXTERNAL DEVELOPMENT WORKS FOR (800) BOYS JINNAH HOSTEL (BLOCK-B) AT AGRICULTURE UNIVERSITY FAISALABAD.

Sr. No.	Description	Amount (Rs.)
A)	ROAD & WALKWAY	
1	Construction of Metalled Road -A (With Foot Path 50mm Thick Concrete Paver)	
2	Construction of Metalled Road -B	
3	Construction of Metalled Road -C (With Foot Path 50mm Thick Concrete Paver)	
4	Construction of Metalled Road -D (With Foot Path 50mm Thick Concrete Paver)	
5	Construction of Metalled Road -F (With Foot Path 50mm Thick Concrete Paver)	
6	Construction of Metalled Road -E&G (With Foot Path 50mm Thick Concrete Paver)	
7	Construction of Metalled Road -H	
8	Construction of Metalled Road -I (With Foot Path 50mm Thick Concrete Paver)	
9	Food Court Area (Paved) (80mm Thick Concrete Paver)	
10	Construction of Paved Walkway to Basket Ball Court -J	
11	Construction of Footpath -K (50mm Thick Concrete Paver)	
12	Construction of Paved Road -L (80mm Thick Concrete Paver)	

Contractor

Executive Engineer

13	Construction of Paved Road -M (80mm Thick Concrete Paver)	
14	Construction of Paved Road -N (80mm Thick Concrete Paver)	
15a	Construction Of Metalled Road Main Car/ Van Parking	
15b	Extra Earth Filling under Footpath Bed and Outside Pushta.	
	TOTAL (A)	

B) OTHER COMPONENTS

15	Fiber Glass Shed	
16	Foot Ball Ground	
17	Basket Ball Court	
18	Sitting Steps for Foot Ball Ground and Basket Ball Court	
19	Horticulture & Landscape (Green Area) (Outside Of Boundary Wall Side of Car Parking and Foot Ball/ Basket Ball Ground)	
20	Development Of Lawns/ Landscape/ Students Sitting Area (Inside of Boundary Wall)	
21	Construction Of Security Hut And Foundation Of Gate Pillars (Hostels Gate).	
22	Main Steel Gate & Gate Way With Security Hut (Main Gate At Jail Road)	
23	Steel Gate with Steel Pillar and Wicket Gate including Foundation of Pillars at Road-A to Kisan Hall	

Contractor

Executive Engineer

24	Walk Through Gate With Pillars To Kisan Hall (5'x8' Size)	
25	Construction of Culverts (3-No.)	
26	Construction of Balance Boundary wall with RCC Pillars & Plinth Beam (100 Rft)	
	TOTAL (B)	
C)	External Electrification	
D)	External Sewrage & Manholes	
	TOTAL (A+B+C+D)	
•	Add 5% Punjab Sales Tax (PRA)	
	TOTAL (Rs.)	
	TOTAL CAPITAL COST (Rs.)	

Contractor

Executive Engineer

**External Development of Boys (Jinnah) Hostel at University of Agriculture, Faisalabad
(D.N.I.T)**

**CONSTRUCTION OF METALLED ROAD - A
ABSTRACT OF COST**

S.N.	Ch# Item #	Description	Quantity	Unit	Rate Quoted by the Contractor	Amount
1	Ch: 3 P-27 Item 5 (i)	Earthwork in ordinary soil for embankments lead upto 10 Mile, including ploughing and mixing with blade grade or disc harrow or other suitable equipment, and compaction by mechanical means at optimum moisture content and dressing to designed section, complete in all respects:- i) 95% to 100% maximum modified AASHO dry density.	32198	%oCft		
2	Ch: 18 P-115 Item 3 (a) (ii)	Providing and laying sub-base course of stone product of approved quality and grade, including placing, mixing, spreading and compaction of sub-base material to required depth, camber, grade to achieve 100% maximum modified AASHO dry density, including carriage of all material to site of work except gravel and aggregate. (Crushed stone aggregate) From Sikhanwali Sargodha Pull 111 Quarry 75-Km	2470	%Cft		
3	Ch: 18 P-116 Item 4 (a)	Providing and laying base course of crushed stone aggregate of approved quality and grade, and supply and spreading of stone screening, including placing, mixing spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHO dry density, including carriage of all materials to site of work except gravel and aggregate From Sikhanwali Sargodha Pull 111 Quarry 75-Km	3742	%Cft		
4	Ch: 18 P-116 Item 5	P/ laying road edging of 3" wide and 9" deep brick on end complete in all respect.	624	P.Rft		
5	Ch: 6 P-50 Item 53 (ii)	Providing & fixing precast Edge Kerb Stone (4" to 6" thick) and 14" high of Compressive Strength of 3500 PSI laid in cement sand mortar (1:3) over pre-laid brick masonry for drain cum footpath etc complete in all respect. With Painting.	1247	P.Rft		

Contractor

Executive Engineer

6	Ch: 18 P-118 Item 10 (iv)	Providing and laying plant premixed bituminous carpet, including compaction and finishing to required camber, grade and density. (4.5% Bitumen) 2" thick	7484	%Sft		
7	Ch: 1 P-3 Item 1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. From Sikhanwali Sargodha Pull 111 Quarry 75-Km Carriage of Crush/ Bajri (used in wearing surface) Carpet	1231	%Cft		
8	Ch: 18 P-116 Item 6	Providing and laying bituminous priming coat, using 10lbs. kerosene oil and 10 lbs. binder per 100 Sft. or 0.5 Kgkerosene and 0.5 Kg binder per square metre.	7484	%Sft		
9	Ch: 6 P-41 Item 2	Dry rammed brick or stone ballast, 1½" to 2" (40 mm to 50 mm) gauge.	1030	%Cft		
10	Ch: 6 P-41 Item 5 (f)	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1: 2: 4	209	%Cft		
11	Ch: 10 P-72 Item 41 (b)	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion/ cgrouting with sand in joints i/c finishing to require slope complete in all respect. (50% Grey / 50% Coloured) 50mm	3119	P.Sft		
12	Ch: 6 P-41 Item 3 (d)	Cement concrete brick or stone ballast 1½" to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- Ratio 1:6:12	469	%Cft		
13	Ch: 7 P-52 Item 4 (i)	Pacca brick work in foundation & plinth in cement sand mortar (1:6).	1266	%Cft		
14	Ch: 11 P-76 Item 9 (b)	Cement Plaster 1:4 upto 20' (6.00 m) height ½" (13 mm) thick	702	%Sft		
15	Ch: 13 P-97 Item 35	Painting Traffic Lane 5" (125 mm) wide with reflective chlorinated rubber (CR) paint including glass beads complete in all respect.	1247	P.Rft		
		TOTAL-				

Contractor

Executive Engineer

EXTERNAL DEVELOPMENT WORKS FOR (800) BOYS JINNAH HOSTEL (BLOCK-B) AT AGRICULTURE UNIVERSITY FAISALABAD.

CONSTRUCTION OF METALLED ROAD - B
ABSTRACT OF COST

S.N.	Ch# Item#	Description	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
1	Ch: 3 P-27 Item 5 (i)	Earthwork in ordinary soil for embankments lead upto 10 Mile, including ploughing and mixing with blade grade or disc harrow or other suitable equipment, and compaction by mechanical means at optimum moisture content and dressing to designed section, complete in all respects:- i) 95% to 100% maximum modified AASHO dry density.	4098	%oCft		
2	Ch: 18 P-115 Item 3 (a) (ii)	Providing and laying sub-base course of stone product of approved quality and grade, including placing, mixing, spreading and compaction of sub-base material to required depth, camber, grade to achieve 100% maximum modified AASHO dry density, including carriage of all material to site of work except gravel and aggregate. (Crushed stone aggregate) From Sikhanwali Sargodha Pull 111 Quarry 75-Km	683	%Cft		
3	Ch: 18 P-116 Item 4 (a)	Providing and laying base course of crushed stone aggregate of approved quality and grade, and supply and spreading of stone screening, including placing, mixing spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHO dry density, including carriage of all materials to site of work except gravel and aggregate From Sikhanwali Sargodha Pull 111 Quarry 75-Km	1035	%Cft		
4	Ch: 18 P-116 Item 5	P/ laying road edging of 3" wide and 9" deep brick on end complete in all respect.	86	P.Rft		

Contractor

Executive Engineer

5	Ch: 6 P-50 Item 53 (ii)	Providing & fixing precast Edge Kerb Stone (4" to 6" thick) and 14" high of Compressive Strength of 3500 PSI laid in cement sand mortar (1:3) over pre-laid brick masonry for drain cum footpath etc complete in all respect. With Painting.	86	P.Rft		
6	Ch: 6 P-41 Item 5 (f)	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1: 2: 4	29	%Cft		
7	Ch: 18 P-118 Item 10 (iv)	Providing and laying plant premixed bituminous carpet, including compaction and finishing to required camber, grade and density. (4.5% Bitumen) 2" thick	2070	%Sft		
8	Ch: 1 P-3 Item 1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. From Sikhanwali Sargodha Pull 111 Quarry 75-Km Carriage of Crush/ Bajri (used in wearing surface) Carpet	341	%Cft		
9	Ch: 18 P-116 Item 6	Providing and laying bituminous priming coat, using 10lbs. kerosene oil and 10 lbs. binder per 100 Sft. or 0.5 Kgkerosene and 0.5 Kg binder per square metre.	2070	%Sft		
10	Ch: 6 P-41 Item 3 (d)	Cement concrete brick or stone ballast 1½" to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- Ratio 1:6:12	43	%Cft		
11	Ch: 7 P-52 Item 4 (i)	Pacca brick work in foundation & plinth in cement sand mortar (1:6).	177	%Cft		
12	Ch: 11 P-76 Item 9 (b)	Cement Plaster 1:4 upto 20' (6.00 m) height ½" (13 mm) thick	97	%Sft		
13	Ch: 13 P-98 Item 35	Painting Traffic Lane 5" (125 mm) wide with reflective chlorinated rubber (CR) paint including glass beads complete in all respect.	201	P.Rft		
14	Ch: 23 P-151 Item 27b	Providing, laying, P.V.C. pipe 4" dia with 'B' Class complete in all respect.	4	P.Rft		
				TOTAL		

Contractor

Executive Engineer

**EXTERNAL DEVELOPMENT WORKS FOR (800) BOYS JINNAH HOSTEL (BLOCK-B) AT AGRICULTURE
UNIVERSITY FAISALABAD.**

CONSTRUCTION OF METALLED ROAD - C
ABSTRACT OF COST

S. N.	Ch# Item #	Description	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
1	Ch: 3 P-27 Item 5 (i)	Earthwork in ordinary soil for embankments lead upto 10 Mile, including ploughing and mixing with blade grade or disc harrow or other suitable equipment, and compaction by mechanical means at optimum moisture content and dressing to designed section, complete in all respects:- i) 95% to 100% maximum modified AASHO dry density.	26871	%oCft		
2	Ch: 18 P-115 Item 3 (a) (ii)	Providing and laying sub-base course of stone product of approved quality and grade, including placing, mixing, spreading and compaction of sub-base material to required depth, camber, grade to achieve 100% maximum modified AASHO dry density, including carriage of all material to site of work except gravel and aggregate. (Crushed stone aggregate) From Sikhanwali Sargodha Pull 111 Quarry 75-Km	2834	%Cft		
3	Ch: 18 P-116 Item 4 (a)	Providing and laying base course of crushed stone aggregate of approved quality and grade, and supply and spreading of stone screening, including placing, mixing spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHO dry density, including carriage of all materials to site of work except gravel and aggregate From Sikhanwali Sargodha Pull 111 Quarry 75-Km	4294	%Cft		
4	Ch: 6 P-50 Item 53 (ii)	Providing & fixing precast Edge Kerb Stone (4" to 6" thick) and 14" high of Compressive Strength of 3500 PSI laid in cement sand mortar (1:3) over pre-laid brick masonry for drain cum footpath etc complete in all respect. With Painting.	1925	P.Rft		
5	Ch: 18 P-118 Item 10 (iv)	Providing and laying plant premixed bituminous carpet, including compaction and finishing to required camber, grade and density. (4.5% Bitumen) 2" thick	8590	%Sft		

Contractor

Executive Engineer

6	Ch: 1 P-3 Item 1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. From Sikhawali Sargodha Pull 111 Quarry 75-Km Carriage of Crush/ Bajri (used in wearing surface) Carpet	1413	%Cft		
7	Ch: 18 P-116 Item 6	Providing and laying bituminous priming coat, using 10lbs. kerosene oil and 10 lbs. binder per 100 Sft. or 0.5 Kgkerosene and 0.5 Kg binder per square metre.	8590	%Sft		
8	Ch: 6 P-41 Item 2	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.	1587	%Cft		
9	Ch: 6 P-41 Item 5 (f)	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1: 2: 4	209	%Cft		
10	Ch: 10 P-72 Item 41 (b)	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion/ cgrouting with sand in joints i/c finishing to require slope complete in all respect. (50% Grey / 50% Coloured) 50mm	4811	P.Sft		
11	Ch: 6 P-41 Item 3 (d)	Cement concrete brick or stone ballast 1½" to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- Ratio 1:6:12	722	%Cft		
12	Ch: 7 P-52 Item 4 (i)	Pacca brick work in foundation & plinth in cement sand mortar (1:6).	1984	%Cft		
13	Ch: 11 P-76 Item 9 (b)	Cement Plaster 1:4 upto 20' (6.00 m) height ½" (13 mm) thick	1082	%Sft		
14	Ch: 13 P-98 Item 35	Painting Traffic Lane 5" (125 mm) wide with reflective chlorinated rubber (CR) paint including glass beads complete in all respect.	1460	P.Rft		
15	Ch: 23 P-151 Item 27b	Providing, laying, P.V.C. pipe 4" dia with 'B' Class complete in all respect.	117	P.Rft		
				TOTAL		

Contractor

Executive Engineer

**EXTERNAL DEVELOPMENT WORKS FOR (800) BOYS JINNAH HOSTEL (BLOCK-B) AT AGRICULTURE
UNIVERSITY FAISALABAD.**

CONSTRUCTION OF METALLED ROAD - D
ABSTRACT OF COST

S.N.		Description	Quantity		Rate Quoted by the Contractor	Amount (Rs.)
-	-	-	-	-	-	-
1	Ch: 3 P-27 Item 5 (i)	Earthwork in ordinary soil for embankments lead upto 10 Mile, including ploughing and mixing with blade grade or disc harrow or other suitable equipment, and compaction by mechanical means at optimum moisture content and dressing to designed section, complete in all respects:- i) 95% to 100% maximum modified AASHO dry density.	22999	%oCft		
2	Ch: 18 P-115 Item 3 (a) (ii)	Providing and laying sub-base course of stone product of approved quality and grade, including placing, mixing, spreading and compaction of sub-base material to required depth, camber, grade to achieve 100% maximum modified AASHO dry density, including carriage of all material to site of work except gravel and aggregate. (Crushed stone aggregate) From Sikhanwali Sargodha Pull 111 Quarry 75-Km	1829	%Cft		
3	Ch: 18 P-116 Item 4 (a)	Providing and laying base course of crushed stone aggregate of approved quality and grade, and supply and spreading of stone screening, including placing, mixing spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHO dry density, including carriage of all materials to site of work except gravel and aggregate From Sikhanwali Sargodha Pull 111 Quarry 75-Km	2772	%Cft		
4	Ch: 18 P-116 Item 5	P/ laying road edging of 3" wide and 9" deep brick on end complete in all respect.	462	P.Rft		

Contractor

Executive Engineer

5	Ch: 6 P-50 Item 53 (ii)	Providing & fixing precast Edge Kerb Stone (4" to 6" thick) and 14" high of Compressive Strength of 3500 PSI laid in cement sand mortar (1:3) over pre-laid brick masonry for drain cum footpath etc complete in all respect. With Painting.	924	P.Rft		
6	Ch: 18 P-118 Item 10 (iv)	Providing and laying plant premixed bituminous carpet, including compaction and finishing to required camber, grade and density. (4.5% Bitumen) 2" thick	5544	%Sft		
7	Ch: 1 P-3 Item 1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. From Sikhanwali Sargodha Pull 111 Quarry 75-Km Carriage of Crush/ Bajri (used in wearing surface) Carpet	912	%Cft		
8	Ch: 18 P-116 Item 6	Providing and laying bituminous priming coat, using 10lbs. kerosene oil and 10 lbs. binder per 100 Sft. or 0.5 Kgkerosene and 0.5 Kg binder per square metre.	5544	%Sft		
9	Ch: 6 P-41 Item 2	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.	762	%Cft		
10	Ch: 6 P-41 Item 5 (f)	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1: 2: 4	155	%Cft		
11	Ch: 10 P-72 Item 41 (b)	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushioni/ cgrouting with sand in joints i/c finishing to require slope complete in all respect. (50% Grey / 50% Coloured) 50mm	2310	P.Sft		
12	Ch: 6 P-41 Item 3 (d)	Cement concrete brick or stone ballast 1½" to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- Ratio 1:6:12	347	%Cft		
13	Ch: 7 P-52 Item 4 (i)	Pacca brick work in foundation & plinth in cement sand mortar (1:6).	938	%Cft		
14	Ch: 11 P-76 Item 9 (b)	Cement Plaster 1:4 upto 20' (6.00 m) height ½" (13 mm) thick	520	%Sft		
15	Ch: 13 P-98 Item 35	Painting Traffic Lane 5" (125 mm) wide with reflective clorinated rubber (CR) paint including glass beads complete in all respect.	1077	P.Rft		
				TOTAL		

Contractor

Executive Engineer

**EXTERNAL DEVELOPMENT WORKS FOR (800) BOYS JINNAH HOSTEL (BLOCK-B) AT AGRICULTURE
UNIVERSITY FAISALABAD.**

CONSTRUCTION OF METALLED ROAD - F
ABSTRACT OF COST

S.N.	Ch # Item#	Description	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
1	Ch: 3 P-27 Item 5 (i)	Earthwork in ordinary soil for embankments lead upto 10 Mile, including ploughing and mixing with blade grade or disc harrow or other suitable equipment, and compaction by mechanical means at optimum moisture content and dressing to designed section, complete in all respects:- i) 95% to 100% maximum modified AASHO dry density.	16654	%oCft		
2	Ch: 18 P-115 Item 3 (a) (ii)	Providing and laying sub-base course of stone product of approved quality and grade, including placing, mixing, spreading and compaction of sub-base material to required depth, camber, grade to achieve 100% maximum modified AASHO dry density, including carriage of all material to site of work except gravel and aggregate. (Crushed stone aggregate) From Sikhanwali Sargodha Pull 111 Quarry 75-Km	2569	%Cft		
3	Ch: 18 P-116 Item 4 (a)	Providing and laying base course of crushed stone aggregate of approved quality and grade, and supply and spreading of stone screening, including placing, mixing spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHO dry density, including carriage of all materials to site of work except gravel and aggregate From Sikhanwali Sargodha Pull 111 Quarry 75-Km	3892	%Cft		
4	Ch: 6 P-50 Item 53 (ii)	Providing & fixing precast Edge Kerb Stone (4" to 6" thick) and 14" high of Compressive Strength of 3500 PSI laid in cement sand mortar (1:3) over pre-laid brick masonry for drain cum footpath etc complete in all respect. With Painting.	537	P.Rft		

Contractor

Executive Engineer

5	Ch: 18 P-118 Item 10 (iv)	Providing and laying plant premixed bituminous carpet, including compaction and finishing to required camber, grade and density. (4.5% Bitumen) 2" thick	7784	%Sft		
6	Ch: 1 P-3 Item 1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. From Sikhanwali Sargodha Pull 111 Quarry 75-Km Carriage of Crush/ Bajri (used in wearing surface) Carpet	1280	%Cft		
7	Ch: 18 P-116 Item 6	Providing and laying bituminous priming coat, using 10lbs. kerosene oil and 10 lbs. binder per 100 Sft. or 0.5 Kgkerosene and 0.5 Kg binder per square metre.	7784	%Sft		
8	Ch: 6 P-41 Item 2	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.	443	%Cft		
9	Ch: 6 P-41 Item 5 (f)	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1: 2: 4	209	%Cft		
10	Ch: 10 P-72 Item 41 (b)	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushioni/ cgrouting with sand in joints i/c finishing to require slope complete in all respect. (50% Grey / 50% Coloured) 50mm	1342	P.Sft		
11	Ch: 6 P-41 Item 3 (d)	Cement concrete brick or stone ballast 1½" to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- Ratio 1:6:12	201	%Cft		
12	Ch: 7 P-52 Item 4 (i)	Pacca brick work in foundation & plinth in cement sand mortar (1:6).	554	%Cft		
13	Ch: 11 P-76	Cement Plaster 1:4 upto 20' (6.00 m) height ½" (13 mm) thick	303	%Sft		

Contractor

Executive Engineer

	Item 9 (b)					
14	Ch: 13 P-98 Item 35	Painting Traffic Lane 5" (125 mm) wide with reflective chlorinated rubber (CR) paint including glass beads complete in all respect.	884	P.Rft		
15	Ch: 23 P-151 Item 27b	Providing, laying, P.V.C. pipe 4" dia with 'B' Class complete in all respect.	32.5	P.Rft		
				TOTAL		

Contractor

Executive Engineer

**EXTERNAL DEVELOPMENT WORKS FOR (800) BOYS JINNAH HOSTEL (BLOCK-B) AT AGRICULTURE
UNIVERSITY FAISALABAD.**

**CONSTRUCTION OF METALLED ROAD - E&G
ABSTRACT OF COST**

S.N .	Ch# Item#	Description	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
1	Ch: 3 P-27 Item 5 (i)	Earthwork in ordinary soil for embankments lead upto 10 Mile, including ploughing and mixing with blade grade or disc harrow or other suitable equipment, and compaction by mechanical means at optimum moisture content and dressing to designed section, complete in all respects:- i) 95% to 100% maximum modified AASHO dry density.	5040	%oCft		
2	Ch: 18 P-115 Item 3 (a) (ii)	Providing and laying sub-base course of stone product of approved quality and grade, including placing, mixing, spreading and compaction of sub-base material to required depth, camber, grade to achieve 100% maximum modified AASHO dry density, including carriage of all material to site of work except gravel and aggregate. (Crushed stone aggregate) From Sikhanwali Sargodha Pull 111 Quarry 75-Km	559	%Cft		
3	Ch: 18 P-116 Item 4 (a)	Providing and laying base course of crushed stone aggregate of approved quality and grade, and supply and spreading of stone screening, including placing, mixing spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHO dry density, including carriage of all materials to site of work except gravel and aggregate From Sikhanwali Sargodha Pull 111 Quarry 75-Km	847	%Cft		
4	Ch: 6 P-50 Item 53 (ii)	Providing & fixing precast Edge Kerb Stone (4" to 6" thick) and 14" high of Compressive Strength of 3500 PSI laid in cement sand mortar (1:3) over pre-laid brick masonry for drain cum footpath etc complete in all respect. With Painting.	339	P.Rft		

Contractor

Executive Engineer

5	Ch: 18 P-118 Item 10 (iv)	Providing and laying plant premixed bituminous carpet, including compaction and finishing to required camber, grade and density. (4.5% Bitumen) 2" thick	1694	%Sft		
6	Ch: 1 P-3 Item 1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. From Sikhanwali Sargodha Pull 111 Quarry 75-Km Carriage of Crush/ Bajri (used in wearing surface) Carpet	279	%Cft		
7	Ch: 18 P-116 Item 6	Providing and laying bituminous priming coat, using 10lbs. kerosene oil and 10 lbs. binder per 100 Sft. or 0.5 Kgkerosene and 0.5 Kg binder per square metre.	1694	%Sft		
8	Ch: 6 P-41 Item 2	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.	279	%Cft		
9	Ch: 6 P-41 Item 5 (f)	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1: 2: 4	209	%Cft		
10	Ch: 10 P-72 Item 41 (b)	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushioni/ cgrouting with sand in joints i/c finishing to require slope complete in all respect. (50% Grey / 50% Coloured) 50mm	847	P.Sft		
11	Ch: 6 P-41 Item 3 (d)	Cement concrete brick or stone ballast 1½" to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- Ratio 1:6:12	128	%Cft		
12	Ch: 7 P-52 Item 4 (i)	Pacca brick work in foundation & plinth in cement sand mortar (1:6).	350	%Cft		
13	Ch: 11 P-76 Item 9 (b)	Cement Plaster 1:4 upto 20' (6.00 m) height ½" (13 mm) thick	190	%Sft		
14	Ch: 13 P-98 Item 35	Painting Traffic Lane 5" (125 mm) wide with reflective clorinated rubber (CR) paint including glass beads complete in all respect.	197	P.Rft		
15	Ch: 23 P-151 Item 27b	Providing, laying, P.V.C. pipe 4" dia with `B' Class complete in all respect.	26	P.Rft		
				TOTAL		

Contractor

Executive Engineer

**EXTERNAL DEVELOPMENT WORKS FOR (800) BOYS JINNAH HOSTEL (BLOCK-B) AT AGRICULTURE
UNIVERSITY FAISALABAD.**

**CONSTRUCTION OF METALLED ROAD - H
ABSTRACT OF COST**

S.N.	ch# Item#	Description	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
1	Ch: 3 P-27 Item 5 (i)	Earthwork in ordinary soil for embankments lead upto 10 Mile, including ploughing and mixing with blade grade or disc harrow or other suitable equipment, and compaction by mechanical means at optimum moisture content and dressing to designed section, complete in all respects:- i) 95% to 100% maximum modified AASHO dry density.	19757	%oCft		
2	Ch: 18 P-115 Item 3 (a) (ii)	Providing and laying sub-base course of stone product of approved quality and grade, including placing, mixing, spreading and compaction of sub-base material to required depth, camber, grade to achieve 100% maximum modified AASHO dry density, including carriage of all material to site of work except gravel and aggregate. (Crushed stone aggregate) From Sikhanwali Sargodha Pull 111 Quarry 75-Km	1555	%Cft		
3	Ch: 18 P-116 Item 4 (a)	Providing and laying base course of crushed stone aggregate of approved quality and grade, and supply and spreading of stone screening, including placing, mixing spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHO dry density, including carriage of all materials to site of work except gravel and aggregate From Sikhanwali Sargodha Pull 111 Quarry 75-Km	2356	%Cft		
4	Ch: 18 P-116 Item 5	P/ laying road edging of 3" wide and 9" deep brick on end complete in all respect.	393	P.Rft		
5	Ch: 6 P-50 Item 53 (ii)	Providing & fixing precast Edge Kerb Stone (4" to 6" thick) and 14" high of Compressive Strength of 3500 PSI laid in cement sand mortar (1:3) over pre-laid brick masonry for drain cum footpath etc complete in all respect. With Painting.	428	P.Rft		

Contractor

Executive Engineer

6	Ch: 18 P-118 Item 10 (iv)	Providing and laying plant premixed bituminous carpet, including compaction and finishing to required camber, grade and density. (4.5% Bitumen) 2" thick	4712	%Sft		
7	Ch: 1 P-3 Item 1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. From Sikhanwali Sargodha Pull 111 Quarry 75-Km Carriage of Crush/ Bajri (used in wearing surface) Carpet	775	%Cft		
8	Ch: 18 P-116 Item 6	Providing and laying bituminous priming coat, using 10lbs. kerosene oil and 10 lbs. binder per 100 Sft. or 0.5 Kgkerosene and 0.5 Kg binder per square metre.	4712	%Sft		
9	Ch: 6 P-41 Item 2	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.	58	%Cft		
10	Ch: 6 P-41 Item 5 (f)	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1: 2: 4	12	%Cft		
11	Ch: 10 P-72 Item 41 (b)	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushioni/ cgrouting with sand in joints i/c finishing to require slope complete in all respect. (50% Grey / 50% Coloured) 50mm	176	P.Sft		
12	Ch: 6 P-41 Item 3 (d)	Cement concrete brick or stone ballast 1½" to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- Ratio 1:6:12	116	%Cft		
13	Ch: 7 P-52 Item 4 (i)	Pacca brick work in foundation & plinth in cement sand mortar (1:6).	71	%Cft		
14	Ch: 11 P-76 Item 9 (b)	Cement Plaster 1:4 upto 20' (6.00 m) height ½" (13 mm) thick	40	%Sft		
15	Ch: 13 P-98 Item 35	Painting Traffic Lane 5" (125 mm) wide with reflective clorinated rubber (CR) paint including glass beads complete in all respect.	785	P.Rft		
				TOTAL- A		

Contractor

Executive Engineer

**EXTERNAL DEVELOPMENT WORKS FOR (800) BOYS JINNAH HOSTEL (BLOCK-B) AT AGRICULTURE
UNIVERSITY FAISALABAD.**

CONSTRUCTION OF METALLED ROAD - I
ABSTRACT OF COST

S.N.	Ch# Item#	Description	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
1	Ch: 3 P-27 Item 5 (i)	Earthwork in ordinary soil for embankments lead upto 10 Mile, including ploughing and mixing with blade grade or disc harrow or other suitable equipment, and compaction by mechanical means at optimum moisture content and dressing to designed section, complete in all respects:- i) 95% to 100% maximum modified AASHO dry density.	33396	%oCft		
2	Ch: 18 P-115 Item 3 (a) (ii)	Providing and laying sub-base course of stone product of approved quality and grade, including placing, mixing, spreading and compaction of sub-base material to required depth, camber, grade to achieve 100% maximum modified AASHO dry density, including carriage of all material to site of work except gravel and aggregate. (Crushed stone aggregate) From Sikhanwali Sargodha Pull 111 Quarry 75-Km	4632	%Cft		
3	Ch: 18 P-116 Item 4 (a)	Providing and laying base course of crushed stone aggregate of approved quality and grade, and supply and spreading of stone screening, including placing, mixing spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHO dry density, including carriage of all materials to site of work except gravel and aggregate From Sikhanwali Sargodha Pull 111 Quarry 75-Km	7018	%Cft		
4	Ch: 18 P-116 Item 5	P/ laying road edging of 3" wide and 9" deep brick on end complete in all respect.	429	P.Rft		
5	Ch: 6 P-50 Item 53 (ii)	Providing & fixing precast Edge Kerb Stone (4" to 6" thick) and 14" high of Compressive Strength of 3500 PSI laid in cement sand mortar (1:3) over pre-laid brick masonry for drain cum footpath etc complete in all respect. With Painting.	770	P.Rft		

Contractor

Executive Engineer

6	Ch: 18 P-118 Item 10 (iv)	Providing and laying plant premixed bituminous carpet, including compaction and finishing to required camber, grade and density. (4.5% Bitumen) 2" thick	14036	%Sft		
7	Ch: 1 P-3 Item 1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. From Sikhanwali Sargodha Pull 111 Quarry 75-Km Carriage of Crush/ Bajri (used in wearing surface) Carpet	2309	%Cft		
8	Ch: 18 P-116 Item 6	Providing and laying bituminous priming coat, using 10lbs. kerosene oil and 10 lbs. binder per 100 Sft. or 0.5 Kgkerosene and 0.5 Kg binder per square metre.	14036	%Sft		
9	Ch: 6 P-41 Item 2	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.	1125	%Cft		
10	Ch: 10 P-72 Item 41 (b)	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushioni/ cgrouting with sand in joints i/c finishing to require slope complete in all respect. (50% Grey / 50% Coloured) 50mm	3850	P.Sft		
11	Ch: 6 P-41 Item 3 (d)	Cement concrete brick or stone ballast 1½" to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- Ratio 1:6:12	300	%Cft		
12	Ch: 7 P-52 Item 4 (i)	Pacca brick work in foundation & plinth in cement sand mortar (1:6).	856	%Cft		
13	Ch: 11 P-76 Item 9 (b)	Cement Plaster 1:4 upto 20' (6.00 m) height ½" (13 mm) thick	483	%Sft		
14	Ch: 13 P-98 Item 35	Painting Traffic Lane 5" (125 mm) wide with reflective clorinated rubber (CR) paint including glass beads complete in all respect.	999	P.Rft		
15	Ch: 23 P-151 Item 27b	Providing, laying, P.V.C. pipe 4" dia with 'B' Class complete in all respect.	4.00	P.Rft		
				TOTAL		

Contractor

Executive Engineer

**EXTERNAL DEVELOPMENT WORKS FOR (800) BOYS JINNAH HOSTEL (BLOCK-B) AT AGRICULTURE
UNIVERSITY FAISALABAD.
FOOD COURT AREA (PAVED)
ABSTRACT OF COST**

S.N.	Ch# Item#	Description	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
1	Ch: 3 P-27 Item 5 (i)	Earthwork in ordinary soil for embankments lead upto 10 Mile, including ploughing and mixing with blade grade or disc harrow or other suitable equipment, and compaction by mechanical means at optimum moisture content and dressing to designed section, complete in all respects:- i) 95% to 100% maximum modified AASHO dry density.	24161	%oCft		
2	Ch: 18 P-115 Item 3 (a) (ii)	Providing and laying sub-base course of stone product of approved quality and grade, including placing, mixing, spreading and compaction of sub-base material to required depth, camber, grade to achieve 100% maximum modified AASHO dry density, including carriage of all material to site of work except gravel and aggregate. (Crushed stone aggregate) From Sikhanwali Sargodha Pull 111 Quarry 75-Km	12119	%Cft		
3	Ch: 6 P-50 Item 53 (ii)	Providing & fixing precast Edge Kerb Stone (4" to 6" thick) and 14" high of Compressive Strength of 3500 PSI laid in cement sand mortar (1:3) over pre-laid brick masonry for drain cum footpath etc complete in all respect. With Painting.	669	P.Rft		
4	Ch: 6 P-41 Item 5 (f)	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1: 2: 4	224	%Cft		
5	Ch: 6 P-41 Item 3 (d)	Cement concrete brick or stone ballast 1½" to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- Ratio 1:6:12	167	%Cft		
6	Ch: 10 P-72 Item 41 (b)	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion/ cgrouting with sand in joints i/c finishing to require slope complete in all respect. (50% Grey / 50% Coloured) 80mm	24236	P.Sft		
7	Ch: 7 P-52 Item 4	Pacca brick work in foundation & plinth in cement sand mortar (1:6).	1379	%Cft		

Contractor

Executive Engineer

	(i)					
8	Ch: 11 P-76 Item 9 (b)	Cement Plaster 1:4 upto 20' (6.00 m) height ½" (13 mm) thick	752	%Sft		
9	Ch: 23 P-151 Item 27b	Providing, laying, P.V.C. pipe 4" dia with `B' Class complete in all respect.	13	P.Rft		
				TOTAL		

Contractor

Executive Engineer

**EXTERNAL DEVELOPMENT WORKS FOR (800) BOYS JINNAH HOSTEL (BLOCK-B) AT AGRICULTURE
UNIVERSITY FAISALABAD.**

Construction of Paved Walkway to Basket Ball Court –J

S. N.	Ch# Item#	Description	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
1	Ch: 3 P-27 Item 5 (i)	Earthwork in ordinary soil for embankments lead upto 10 Mile, including ploughing and mixing with blade grade or disc harrow or other suitable equipment, and compaction by mechanical means at optimum moisture content and dressing to designed section, complete in all respects:- i) 95% to 100% maximum modified AASHO dry density.	5510	%oCft		
2	Ch: 6 P-41 Item 2	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.	649	%Cft		
3	Ch: 6 P-50 Item 53 (ii)	Providing & fixing precast Edge Kerb Stone (4" to 6" thick) and 14" high of Compressive Strength of 3500 PSI laid in cement sand mortar (1:3) over pre-laid brick masonry for drain cum footpath etc complete in all respect. With Painting.	325	P.Rft		
4	Ch: 6 P-41 Item 5 (f)	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1: 2: 4	1298	%Cft		
5	Ch: 10 P-72 Item 41 (b)	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion/ cgrouting with sand in joints i/c finishing to require slope complete in all respect. (50% Grey / 50% Coloured) 50mm	1298	P.Sft		
6	Ch: 6 P-41 Item 3 (d)	Cement concrete brick or stone ballast 1½" to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- Ratio 1:6:12	163	%Cft		

Contractor

Executive Engineer

7	Ch: 7 P-52 Item 4 (i)	Pacca brick work in foundation & plinth in cement sand mortar (1:6).	670	%Cft		
8	Ch: 11 P-76 Item 9 (b)	Cement Plaster 1:4 upto 20' (6.00 m) height ½" (13 mm) thick	365	%Sft		
				TOTAL		

Contractor

Executive Engineer

**EXTERNAL DEVELOPMENT WORKS FOR (800) BOYS JINNAH HOSTEL (BLOCK-B) AT AGRICULTURE
UNIVERSITY FAISALABAD.**

**CONSTRUCTION OF FOOT PATH ROAD-K
ABSTRACT OF COST**

S.N.	Ch # Item#	Description	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
1	Ch: 3 P-27 Item 5 (i)	Earthwork in ordinary soil for embankments lead upto 10 Mile, including ploughing and mixing with blade grade or disc harrow or other suitable equipment, and compaction by mechanical means at optimum moisture content and dressing to designed section, complete in all respects:- i) 95% to 100% maximum modified AASHO dry density.	23347	%oCft		
2	Ch: 6 P-41 Item 2	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.	864	%Cft		
3	Ch: 6 P-50 Item 53 (ii)	Providing & fixing precast Edge Kerb Stone (4" to 6" thick) and 14" high of Compressive Strength of 3500 PSI laid in cement sand mortar (1:3) over pre-laid brick masonry for drain cum footpath etc complete in all respect. With Painting.	524	P.Rft		
4	Ch: 6 P-41 Item 5 (f)	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1: 2: 4	2618	%Cft		
5	Ch: 10 P-72 Item 41 (b)	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion/ cgrouting with sand in joints i/c finishing to require slope complete in all respect. (50% Grey / 50% Coloured) 50mm	2618	P.Sft		
6	Ch: 6 P-41 Item 3 (d)	Cement concrete brick or stone ballast 1½" to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- Ratio 1:6:12	262	%Cft		
7	Ch: 7 P-52 Item 4 (i)	Pacca brick work in foundation & plinth in cement sand mortar (1:6).	737	%Cft		
		TOTAL				

Contractor

Executive Engineer

**EXTERNAL DEVELOPMENT WORKS FOR (800) BOYS JINNAH HOSTEL (BLOCK-B) AT AGRICULTURE
UNIVERSITY FAISALABAD,
CONSTRUCTION OF PAVED ROAD-L
ABSTRACT OF COST**

S.N.	Ch # Item#	Description	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
1	Ch: 3 P-27 Item 5 (i)	Earthwork in ordinary soil for embankments lead upto 10 Mile, including ploughing and mixing with blade grade or disc harrow or other suitable equipment, and compaction by mechanical means at optimum moisture content and dressing to designed section, complete in all respects:- i) 95% to 100% maximum modified AASHO dry density.	2495	%oCft		
2	Ch: 18 P-115 Item 3 (a) (ii)	Providing and laying sub-base course of stone product of approved quality and grade, including placing, mixing, spreading and compaction of sub-base material to required depth, camber, grade to achieve 100% maximum modified AASHO dry density, including carriage of all material to site of work except gravel and aggregate. (Crushed stone aggregate) From Sikhanwali Sargodha Pull 111 Quarry 75-Km	713	%Cft		
3	Ch: 6 P-50 Item 53 (ii)	Providing & fixing precast Edge Kerb Stone (4" to 6" thick) and 14" high of Compressive Strength of 3500 PSI laid in cement sand mortar (1:3) over pre-laid brick masonry for drain cum footpath etc complete in all respect. With Painting.	119	P.Rft		
4	Ch: 10 P-72 Item 41 (b)	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushioni/ cgrouting with sand in joints i/c finishing to require slope complete in all respect. (50% Grey / 50% Coloured) 80mm	1426	P.Sft		
5	Ch: 6 P-41 Item 5 (f)	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1: 2: 4	40	%Cft		

Contractor

Executive Engineer

6	Ch: 6 P-41 Item 3 (d)	Cement concrete brick or stone ballast 1½" to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- Ratio 1:6:12	59	%Cft		
7	Ch: 7 P-52 Item 4 (i)	Pacca brick work in foundation & plinth in cement sand mortar (1:6).	245	%Cft		
8	Ch: 11 P-76 Item 9 (b)	Cement Plaster 1:4 upto 20' (6.00 m) height ½" (13 mm) thick	134	%Sft		
9	Ch: 23 P-151 Item 27b	Providing, laying, P.V.C. pipe 4" dia with `B' Class complete in all respect.	6	P.Rft		
		TOTAL				

Contractor

Executive Engineer

**EXTERNAL DEVELOPMENT WORKS FOR (800) BOYS JINNAH HOSTEL (BLOCK-B) AT AGRICULTURE
UNIVERSITY FAISALABAD.**

**CONSTRUCTION OF PAVED ROAD-M
ABSTRACT OF COST**

S.N.	Ch # Item#	Description	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
1	Ch: 3 P-27 Item 5 (i)	Earthwork in ordinary soil for embankments lead upto 10 Mile, including ploughing and mixing with blade grade or disc harrow or other suitable equipment, and compaction by mechanical means at optimum moisture content and dressing to designed section, complete in all respects:- i) 95% to 100% maximum modified AASHO dry density.	10402	%oCft		
2	Ch: 18 P-115 Item 3 (a) (ii)	Providing and laying sub-base course of stone product of approved quality and grade, including placing, mixing, spreading and compaction of sub-base material to required depth, camber, grade to achieve 100% maximum modified AASHO dry density, including carriage of all material to site of work except gravel and aggregate. (Crushed stone aggregate) From Sikhanwali Sargodha Pull 111 Quarry 75-Km	2979	%Cft		
3	Ch: 6 P-50 Item 53 (ii)	Providing & fixing precast Edge Kerb Stone (4" to 6" thick) and 14" high of Compressive Strength of 3500 PSI laid in cement sand mortar (1:3) over pre-laid brick masonry for drain cum footpath etc complete in all respect. With Painting.	488	P.Rft		

Contractor

Executive Engineer

4	Ch: 10 P-72 Item 41 (b)	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushioni/ cgrouting with sand in joints i/c finishing to require slope complete in all respect. (50% Grey / 50% Coloured) 80mm	4162	P.Sft		
5	Ch: 10 P-72 Item 41 (b)	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushioni/ cgrouting with sand in joints i/c finishing to require slope complete in all respect. (50% Grey / 50% Coloured) 50mm	1795	P.Sft		
6	Ch: 6 P-41 Item 3 (d)	Cement concrete brick or stone ballast 1½" to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- Ratio 1:6:12	244	%Cft		
7	Ch: 7 P-52 Item 4 (i)	Pacca brick work in foundation & plinth in cement sand mortar (1:6).	1008	%Cft		
8	Ch: 11 P-76 Item 9 (b)	Cement Plaster 1:4 upto 20' (6.00 m) height ½" (13 mm) thick	550	%Sft		
9	Ch: 23 P-151 Item 27b	Providing, laying, P.V.C. pipe 4" dia with `B' Class complete in all respect.	10	P.Rft		
		TOTAL				

Contractor

Executive Engineer

EXTERNAL DEVELOPMENT WORKS FOR (800) BOYS JINNAH HOSTEL (BLOCK-B) AT AGRICULTURE UNIVERSITY FAISALABAD.

CONSTRUCTION OF PAVED ROAD-N
ABSTRACT OF COST

S.N.	Ch # Item#	Description	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
1	Ch: 3 P-27 Item 5 (i)	Earthwork in ordinary soil for embankments lead upto 10 Mile, including ploughing and mixing with blade grade or disc harrow or other suitable equipment, and compaction by mechanical means at optimum moisture content and dressing to designed section, complete in all respects:- i) 95% to 100% maximum modified AASHO dry density.	8204	%oCft		
2	Ch: 18 P-115 Item 3 (a) (ii)	Providing and laying sub-base course of stone product of approved quality and grade, including placing, mixing, spreading and compaction of sub-base material to required depth, camber, grade to achieve 100% maximum modified AASHO dry density, including carriage of all material to site of work except gravel and aggregate. (Crushed stone aggregate) From Sikhanwali Sargodha Pull 111 Quarry 75-Km	2136	%Cft		
3	Ch: 6 P-50 Item 53 (ii)	Providing & fixing precast Edge Kerb Stone (4" to 6" thick) and 14" high of Compressive Strength of 3500 PSI laid in cement sand mortar (1:3) over pre-laid brick masonry for drain cum footpath etc complete in all respect. With Painting.	396	P.Rft		

Contractor

Executive Engineer

4	Ch: 6 P-41 Item 5 (f)	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1: 2: 4	133	%Cft		
5	Ch: 10 P-72 Item 41 (b)	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushioni/cgrouting with sand in joints i/c finishing to require slope complete in all respect. (50% Grey / 50% Coloured) 80mm	4158	P.Sft		
6	Ch: 6 P-41 Item 3 (d)	Cement concrete brick or stone ballast 1½" to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- Ratio 1:6:12	198	%Cft		
7	Ch: 7 P-52 Item 4 (i)	Pacca brick work in foundation & plinth in cement sand mortar (1:6).	817	%Cft		
8	Ch: 11 P-76 Item 9 (b)	Cement Plaster 1:4 upto 20' (6.00 m) height ½" (13 mm) thick	446	%Sft		
9	Ch: 23 P-151 Item 27b	Providing, laying, P.V.C. pipe 4" dia with `B' Class complete in all respect.	11	P.Rft		
		TOTAL				

Contractor

Executive Engineer

EXTERNAL DEVELOPMENT WORKS FOR (800) BOYS JINNAH HOSTEL (BLOCK-B) AT AGRICULTURE UNIVERSITY FAISALABAD.

CONSTRUCTION OF METALLED ROAD MAIN CAR/ VAN PARKING
ABSTRACT OF COST

S.N.	Ch# Item#	Description	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
-	-	-	-	-	-	-
1	Ch: 3 P-27 Item 5 (i)	Earthwork in ordinary soil for embankments lead upto 10 Mile, including ploughing and mixing with blade grade or disc harrow or other suitable equipment, and compaction by mechanical means at optimum moisture content and dressing to designed section, complete in all respects:- i) 95% to 100% maximum modified AASHO dry density.	42595	%oCft		
2	Ch: 18 P-115 Item 3 (a) (ii)	Providing and laying sub-base course of stone product of approved quality and grade, including placing, mixing, spreading and compaction of sub-base material to required depth, camber, grade to achieve 100% maximum modified AASHO dry density, including carriage of all material to site of work except gravel and aggregate. (Crushed stone aggregate) From Sikhanwali Sargodha Pull 111 Quarry 75-Km	6247	%Cft		
3	Ch: 10 P-72 Item 41 (b)	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushioni/ cgrouting with sand in joints i/c finishing to require slope complete in all respect. (50% Grey / 50% Coloured) 80mm	18931	P.Sft		
4	Ch: 13 P-97 Item 35	Painting Traffic Lane 5" (125 mm) wide with reflective chlorinated rubber (CR) paint including glass beads complete in all respect.	1217	P.Rft		
				TOTAL-		

Contractor

Executive Engineer

EXTERNAL DEVELOPMENT WORKS FOR (800) BOYS JINNAH HOSTEL (BLOCK-B) AT AGRICULTURE UNIVERSITY FAISALABAD.

EXTRA EARTH FILLING UNDER FOOTPATH BED AND OUTSIDE PUSHTA.

S.N.	Ch # Item#	Description	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
1	Ch: 3 P-27 Item 5 (ii)	Filling, watering and ramming earth under floors:- with new earth excavated from outside, lead upto 2 mile.	8565	%oCft		
2	Ch: 3 P-27 Item 4 (a) + Ch: 3 P-29 Item 18 (b)	Borrowpit excavation undressed lead upto 100 ft (30 metre) Ordinary soil including Dressing and levelling of earhtwork to designed section, etc. complete:- Ordinary or hard soil. Lead Upto 2-miles	10276	%Cft		
		TOTAL				

Contractor

Executive Engineer

**EXTERNAL DEVELOPMENT WORKS FOR (800) BOYS JINNAH HOSTEL (BLOCK-B) AT AGRICULTURE
UNIVERSITY FAISALABAD.**

**FIBER GLASS CAR PARKING & BIKE PARKING SHED
ABSTRACT OF COST**

S.N.	Ch # Item #	Description	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
1	Ch: 26 P-215 Item 44 (i)	Supply and Erection of Car Parking Shed consisting of 3 mm thick fiber glass sheet roof (3-layers) fixed / riveted on moulded curved frame of M.S box pipe 1-1/2"x1-1/2"16-SWG supported on trusses of MS angle iron 1-1/2"x1-1/2"x3/16" all around duly supported on M.S sheet 6"x6"x1/4" welded on GI pipe post (Medium Quality) of specified diameter embedded in P:C:C (1:2:4) i/c the cost of excavation, cutting straightening assembling, bending as per design, welding / grinding of joints and painting three coats complete in all respect as approved and directed by the Engineer Incharge. (i) 4" dia GI Pipe Supports	6176	P.Sft		
		TOTAL-A				

Contractor

Executive Engineer

**EXTERNAL DEVELOPMENT WORKS FOR (800) BOYS JINNAH HOSTEL (BLOCK-B) AT AGRICULTURE
UNIVERSITY FAISALABAD.**

**FOOT BALL GROUND INCLUDING POLES
ABSTRACT OF COST**

S.N.	Ch # Item#	Description	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
-	-	STANDARDIZED ITEMS	-	-	-	-
1	Ch: 3 P-33 Item 50	Leveling, dressing and making lawns.	70172	%Sft		
2	Ch: 26 P-213 Item 28	Supplying manure.	795	Cart Load Each		
3	Ch: 3 P-33 Item 51	Turfing lawns (excluding cost of turf).	70172	%Sft		
4	Ch: 3 P-30 Item 21 (a) ii	Excavation in foundation of building, bridges and other structure, i/ c dag belling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain and lift upto 5' (in ordinary) soil.	90	%oCft		
5	Ch: 6 P-41 Item 5 (i)	Cement Concrete Plain i/c placing, compacting, finishing and curing complete including screening and washing of stone aggregate 1:4:8.	18	%Cft		
6	Ch: 6 P-41 Item 5 (f)	Cement Concrete Plain i/c placing, compacting, finishing and curing complete including screening and washing of stone aggregate 1:2:4.	72	%Cft		
7	Ch: 23 P-150 Item 23(ii) J	Providing, laying, cutting, jointing, testing and disinfecting G.I. pipeline in trenches, with socket joints, using G.I. pipes of B.S.S. 1387-1967 complete in all respects, with specials and valves. Medium Quality 5" i/d.	90	P.Rft		
8	Ch: 23 P-93 Item 5 c (i+ii)	Preparing surface and painting of doors and windows any type (including edges):- 3-coats.	164	%Sft		

Contractor

Executive Engineer

		TOTAL-A				
		NON STANDARDIZED ITEMS				
1	NS	Supply and filling sweet earth/ Bhal of approved quality borrowed from outside up to any lead, including ramming, levelling, grading complete in all respect and as directed by the Engineer Incharge.	35086	P.Cft		
2	NS	Providing and laying Fine Dacca Grass to be laid as patches at distance of 1'x1.5' or 1'x2' etc complete in all respect and as directed by the Engineer Incharge.	70172	P.Sft		
3	NS	Providing and fixing net for foot ball poles of standard size.	2	Each		
		TOTAL-B				
		TOTAL- A+B				

Contractor

Executive Engineer

**EXTERNAL DEVELOPMENT WORKS FOR (800) BOYS JINNAH HOSTEL (BLOCK-B) AT AGRICULTURE
UNIVERSITY FAISALABAD.**

**BASKETBALL COURT
ABSTRACT OF COST**

S.N.	Ch # Item#	Description	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
1	Ch: 3 P-30 Item 21 (a) ii	Excavation in foundation of building, bridges and other structure, i/c dag belling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain and lift upto 5' in ordinary soil	4482	%oCft		
2	Ch: 3 P-30 Item 24 (a+b-ii)	Compaction of earthwork (soft, ordinary or hard soil) :- Compaction by rolling with roller ordinary soil	3984	%oCft		
3	NS	P/F stone aggregate 1½" to 2" size compacted	2400	P.Cft		
4	Ch: 6 P-41 Item 5 (i)	Cement Concrete Plain i/c placing, compacting, finishing and curing complete including screening and washing of stone aggregate 1:4:8.	1386	%Cft		
5	Ch: 6 P-41 Item 5 (f)	Cement concrete plain i/c placing, compacting ,finishing and curing complete including screening and washing of stone aggregate 1:2:4.	1470	%Cft		
6	Ch: 6 P-41 Item 3 (d)	Cement concrete brick or stone ballast 1½" to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- Ratio 1:6:12	146	%Cft		
7	Ch: 7 P-52 Item 4 (i)	Pacca brick work in foundation and plinth in cement sand mortar (1:5)	478	%Cft		

Contractor

Executive Engineer

8	Ch: 11 P-76 Item 9 (b)	Cement Plaster 1:4 upto 20' (6.00 m) height ½" (13 mm) thick	536	%Sft		
9	Ch: 13 P-98 Item 35	Painting Traffic Lane 5" (125 mm) wide with reflective chlorinated rubber (CR) paint including glass beads complete in all respect.	647	P.Rft		
10	Ch: 3 P-29 Item 15 (i)	Filling, watering and ramming earth under floors:- with surplus earth from foundation, etc.	548	%oCft		
11	NS	Providing/ fixing Basket ball pole 6 inch round pipe in 14 gauge with fiber glass board and ring and net pipe size is 6 inch in 14 gauge board size 3.5 ft by 6 ft with back supported pipe frame 1.5x1.5 inch pipe in 16 gauge and attached with iron sheet 16x16 inch in 12 gauge and backside 2 supported pipe of 1 inch in 16 gauge with complete nut, bolts and painting complete in all respect and as directed by the Engineer Incharge (As per drawing No. BC-A-02).	2	P.Job		
		TOTAL-A				

Contractor

Executive Engineer

**EXTERNAL DEVELOPMENT WORKS FOR (800) BOYS JINNAH HOSTEL (BLOCK-B) AT AGRICULTURE
UNIVERSITY FAISALABAD.**

**FOOT BALL GROUND SITTING STEPS
ABSTRACT OF COST**

S.N.	Ch # Item#	Description	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
1	Ch: 3 P-30 Item 21 (a) ii	Excavation in foundation of building, bridges and other structure, i/ c dag belling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain and lift upto 5' (in ordinary) soil.	3071	%oCft		
2	Ch: 6 P-41 Item 3 (d)	Cement concrete brick or stone ballast 1½" to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- Ratio 1:6:12	614	%Cft		
3	Ch: 7 P-52 Item 4 (i)	Pacca brick work in foundation & plinth in cement sand mortar (1:6).	1861	%Cft		
4	Ch: 6 P-42 Item 6 (a-iii) (3)	Reinforcement of cement concrete in slab of rafts/ strip foundation, base of column and retaining walls: etc and other structural members other than these mentioned in above not requiring from work (i. e horizontal shuttering) complete in all respect (1:2:4).	195	P.Cft		
5	Ch: 6 P-47 Item 36 (a-i)	Providing and laying damp proof course of cement concrete 1:2:4(using cement, sand and shingle), including bitumen coating: - with one coat bitumen and one coat polythene sheet 500gauge 1½" thick (40 mm)	224	%Sft		
6	Ch: 7 P-53 Item 7 (i)	Pacca brick work other than building upto 10ft. (3 m) height. Cement, sand mortar:- Ratio 1:5	1382	%Cft		

Contractor

Executive Engineer

7	Ch: 25 P-205 Item 35	Providing and fixing terrace railing of 2" (50 mm) i/c 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	130	P.Rft		
8	Ch: 6 P-42 Item 6 (a-i) (3)	Reinforced cement concrete in roof slab, beams, columns, lintels, girders, and other structural members laid in site or pre cast laid in position or prestressed members cast in site, complete in all respect (1:2:4).	1595	P.Cft		
9	Ch: 6 P-45 Item 12-c	Fabrication of mild steel reinforcement for cement concrete i/ c cutting, bending, laying, in position, making joints and fastening i/ c cost of binding wire and labour charges for binding of steel reinforcement (Also i/c removal of rust from bars). Grade-60	8533	%Kg		
10	Ch: 10 P-72 Item 37 (a-ii)	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 1/2"(13 mm) thick cement plaster 1:3, including rubbing and polishing, complete with finishing: using gray cement: 1/2" thick (13 mm)	2556	%Sft		
11	Ch: 11 P-76 Item 9 (b)	Cement Plaster 1:4 upto 20' (6.00 m) height 1/2" (13 mm) thick	1852	%Sft		
12	Ch: 3 P-29 Item 15 (i)	Filling, watering and ramming earth under floors:- with surplus earth from foundation, etc.	2048	%oCft		
13	Ch: 3 P-93 Item 5-d (i+ii)	Painting new surface:- Preparing surface and painting guard bars, gates of iron bars, gratings, railing (including standards, braces, etc.) and in similar open work:- 3-coats	358	%Sft		
		TOTAL				

Contractor

Executive Engineer

**EXTERNAL DEVELOPMENT WORKS FOR (800) BOYS JINNAH HOSTEL (BLOCK-B) AT AGRICULTURE
UNIVERSITY FAISALABAD.**

**BASKET BALL COURT SITTING STEPS
ABSTRACT OF COST**

S.N.	Ch # Item#	Description	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
		-				
1	Ch: 3 P-30 Item 21 (a) ii	Excavation in foundation of building, bridges and other structure, i/c dag belling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain and lift upto 5' (in ordinary) soil.	1712	%oCft		
2	Ch: 6 P-41 Item 3 (d)	Cement concrete brick or stone ballast 1½" to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- Ratio 1:6:12	342	%Cft		
3	Ch: 7 P-52 Item 4 (i)	Pacca brick work in foundation & plinth in cement sand mortar (1:6).	1079	%Cft		
4	Ch: 6 P-42 Item 6 (a-iii) (3)	Reinforcement of cement concrete in slab of rafts/ strip foundation, base of column and retaining walls: etc and other structural members other than these mentioned in above not requiring from work (i. e horizontal shuttering) complete in all respect (1:2:4).	113	P.Cft		
5	Ch: 6 P-47 Item 36 (a-i)	Providing and laying damp proof course of cement concrete 1:2:4(using cement, sand and shingle), including bitumen coating: - with one coat bitumen and one coat polythene sheet 500gauge 1½" thick (40 mm)	137	%Sft		
6	Ch: 7 P-53 Item 7 (i)	Pacca brick work other than building upto 10ft. (3 m) height. Cement, sand mortar:- Ratio 1:5	706	%Cft		
7	Ch: 25 P-205 Item 35	Providing and fixing terrace railing of 2" (50 mm) i/c 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 wit suitable arrangement, complete in all	75	P.Rft		

Contractor

Executive Engineer

		respects, as per design and drawing				
8	Ch: 6 P-42 Item 6 (a-i) (3)	Reinforced cement concrete in roof slab, beams, columns, lintels, girders, and other structural members laid in site or pre cast laid in position or prestressed members cost in site, complete in all respect (1:2:4).	859	P.Cft		
9	Ch: 6 P-45 Item 12-c	Fabrication of mild steel reinforcement for cement concrete i/ c cutting, bending, laying, in position, making joints and fastening i/ c cost of binding wire and labour charges for binding of steel reinforcement (Also i/c removal of rust from bars). Grade-60	4634	%Kg		
10	Ch: 10 P-72 Item 37 (a-ii)	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: using gray cement: ½” thick (13 mm)	1350	%Sft		
11	Ch: 11 P-76 Item 9 (b)	Cement Plaster 1:4 upto 20' (6.00 m) height ½" (13 mm) thick	882	%Sft		
12	Ch: 3 P-29 Item 15 (i)	Filling, watering and ramming earth under floors:- with surplus earth from foundation, etc.	1142	%oCft		
13	Ch: 3 P-93 Item 5-d (i+ii)	Painting new surface:- Preparing surface and painting guard bars, gates of iron bars, gratings, railing (including standards, braces, etc.) and in similar open work:- 3-coats	206	%Sft		
		TOTAL				

Contractor

Executive Engineer

**EXTERNAL DEVELOPMENT WORKS FOR (800) BOYS JINNAH HOSTEL (BLOCK-B) AT AGRICULTURE
UNIVERSITY FAISALABAD.
HORTICULTURE & LANDSCAPE (GREEN AREA)
TOTAL GREEN AREA AROUND ROADS/ MAIN PARKING/ FOOT BALL GROUND
OUTSIDE OF BOUNDARY WALL
ABSTRACT OF COST**

S.N.		Description	Quantity	Rate (Rs.)	Rate Quoted by the Contractor	Amount (Rs.)
		<u>STANDARDIZED ITEMS</u>				
1	Ch: 3 P-33 Item 50	Leveling, dressing and making lawns.	57697	%Sft		
2	Ch: 3 P-33 Item 51	Turfing lawns (excluding cost of turf).	56697	%Sft		
3	Ch: 6 P-50 Item 53 (ii)	Providing & fixing precast Edge Kerb Stone (4" to 6" thick) and 14" high of Compressive Strength of 3500 PSI laid in cement sand mortar (1:3) over pre-laid brick masonry for drain cum footpath etc complete in all respect. With Painting.	737	P.Rft		
4	Ch: 6 P-41 Item 5 (f)	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1: 2: 4	173	%Cft		
		TOTAL-A				
		<u>NON-STANDARDIZED ITEMS</u>				
1	N.S	Supply and filling sweet earth/ Bhal of approved quality borrowed from outside up to any lead, including ramming, levelling, grading complete in all respect and as directed by the Engineer Incharge.	28849	P.Cft		

Contractor

Executive Engineer

2	N.S	Providing and laying Fine Dacca Grass to be laid as patches at distance of 1'x1.5' or 1'x2' etc complete in all respect and as directed by the Engineer Incharge.	56697	P.Sft			
		` ` TOTAL-B					
TOTAL-A+B							

Contractor

Executive Engineer

EXTERNAL DEVELOPMENT WORKS FOR (800) BOYS JINNAH HOSTEL (BLOCK-B) AT AGRICULTURE
UNIVERSITY FAISALABAD.
DEVELOPMENT OF LAWNS/ LANDSCAPE
INSIDE OF BOUNDARY WALL
ABSTRACT OF COST

S.N.	Ch # Item #	Description	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
-	-	<u>STANDARDIZED ITEMS</u>	-	-	-	-
1	Ch: 3 P-27 Item 4 (a) + Ch: 3 P-29 Item 18 (b)	Borrowpit excavation undressed lead upto 100 ft (30 metre) Ordinary soil including Dressing and levelling of earhtwork to designed section, etc. complete:- Ordinary or hard soil. Lead Upto 2-miles	17500	%oCft		
2	Ch: 3 P-33 Item 50	Leveling, dressing and making lawns.	152922	%Sft		
3	Ch: 3 P-33 Item 51	Turfing lawns (excluding cost of turf).	152922	%Sft		
4	Ch: 3 P-33 Item 51	Making connection for new water supply lines with the running main, including excavation of trench and refilling, complete, but excluding cost of pipe and specials, etc. upto 6" i/d (150 mm)	24	P.Connection n		

Contractor

Executive Engineer

5	Ch: 23P- 159Item 47 a (iii)	Providing, laying, testing and commissioning of POLYPROPYLENE RANDOM CO POLYMER (PPRC) water supply pipe (Dadex/ Popular/ Beta or equivalent) with specified pressure rating PN (PRESSURE NOMINAL) and conforming to DIN 8077-8078 code i/c cost of solvent, specials, making jharries complete in all respect as approved and directed by Engineer Incharge.(Internal/External Diameters mentioned). PN-16 pipe 1" dia	600	P.Rft		
		TOTAL-A				
		<u>NON-STANDARDIZED ITEMS</u>				
1	N.S	Supply and filling sweet earth/ Bhal of approved quality borrowed from outside up to any lead, including ramming, levelling, grading complete in all respect and as directed by the Engineer Incharge.	74461	P.Cft		
2	N.S	Providing and laying Fine Dacca Grass to be laid as patches at distance of 1'x1.5' or 1'x2' etc complete in all respect and as directed by the Engineer Incharge.	152922	P.Sft		
3	N.S	P/F Brass handle valve 1" dia	30	Each		
		TOTAL-B				
		TOTAL-A+B				

Contractor

Executive Engineer

**EXTERNAL DEVELOPMENT WORKS FOR (800) BOYS JINNAH HOSTEL (BLOCK-B) AT AGRICULTURE
UNIVERSITY FAISALABAD.**

Construction of Security Hut with Toilet (Hostels Gate).

S.N.	Ref:	Description	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
1	Ch: 3 P-30 Item 21 (a) ii	Excavation in foundation of building, bridges and other structure, i/c dag belling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain and lift upto 5' in ordinary soil.	516	%Cft		
2	Ch: 3 P-27 Item 5 (i)	Filling, watering and ramming earth under floors:- with surplus earth from foundation, etc.	344	%oCft		
3	Ch: 3 P-27 Item 5 (ii)	Filling, watering and ramming earth under floors:- with new earth excavated from outside, lead upto 2 mile.	133	%oCft		
4	Ch: 6 P-41 Item 3 (d)	Cement concrete brick or stone ballast 1½" to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- Ratio 1:6:12	137	%Cft		
5	Ch: 7 P-52 Item 4 (i)	Pacca brick work in foundation & plinth in cement sand mortar (1:6).	470	%Cft		
6	Ch: 6 P-47 Item 36 (i)	P/L Damp Proof Course of Cement Concrete 1:2:4, 1-1/2" thick (Using Cement Sand and Shingle i/c Butumen Coating	85	%Sft		
7	Ch: 6 P-49 Item 36 (iii) a	P/L Vertical Damp Proof Course with Cement Sand Plaster, 3/4" thick and Butumen Coating (Ratio 1:2)	47	%Sft		
8	Ch: 7 P-53 Item 5 (i)	Pacca brick work in ground floor (1:6).	255	%Cft		
9	Ch: 7 P-53 Item 5 (i)	Pacca brick work in ground floor (1:4).	63	%Cft		

Contractor

Executive Engineer

10	Ch: 6 P-42 Item 6 (a-i) (3)	Reinforcement cement concrete in roof slab, beams, columns, lintels, girders, and other structural members laid in site or pre cast laid in position or prestressed members cost in site, complete in all respect (1:2:4). Using course sand	126	P.Cft		
11	Ch: 6 P-45 Item 12- b	Fabrication of mild steel reinforcement for cement concrete i/ c cutting, bending, laying, in position, making joints and fastening i/ c cost of binding wire and labour charges for binding of steel reinforcement (Also i/c removal of rust from bars) deformed bars Grade-40	429	% Kg		
12	Ch: 11 P-76 Item 10 (b)	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. 1:3	161	% Sft		
13	Ch: 11 P-76 Item 8 (b)	Cement plaster 1:5 upto 20' (6.00 m) height:- 1/2" (13 mm) thick	439	% Sft		
14	Ch: 11 P-76 Item 9 (b)	Cement plaster 1:4 upto 20' (6.00 m) height:- 1/2" (13 mm) thick	875	% Sft		
15	Ch:6 P-41 Item 5 (f)	Cement Concrete Plain 1:2:4 i/c placing compacting, finishing & curing complete (including screening and washing of stone aggregates) Coping	17	% Cft		
16	Ch:7 P-57 Item 30	Supply & filling sand under floor or plugging in wells.	97	% Cft		
17	Ch:10 P-68 Item 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.	97	% Cft		
18	Ch:10 P-70 Item 22 (a)	1½"(40 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 1"(25 mm) thick floor of 1:2:4 cement concrete, including rubbing and polishing complete with finishing :- using white cement	109	% Sft		
19	Ch:10 P-72 Item 37 (ii)	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: using gray cement: ½" thick (13 mm)	32	% Sft		
20	Ch:10 P-69 Item 15 (c)	Providing and laying topping of cement concrete 1:2:4, including surface finishing and dividing in panels:- 1½" thick	272	% Sft		

Contractor

Executive Engineer

21	Ch:10 P-72 Item 40 (a)	Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels Size 1½" x 3/8" (40 x 10 mm)	163	P.Rft		
22	Ch:10 P-70 Item 24 (i)	Providing and laying superb quality Ceramic tile floors of Master brand of specified size, Glossy/ Matt/ Texture of approved Color and Shade as per approved design with adhesive bond, over 3/4" thick (1;2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge. i) 12"x18"/ 12"x24"/ 10"x24"/ 8"x24"/ 12"x36"	25	P.Sft		
23	Ch:10 P-70 Item 25 (i)	Providing and laying superb quality Ceramic tile Dado of Master brand of specified size, Glossy/ Matt/ Texture Skirting/ Dado of approved Color and Shade as per approved design with adhesive bond, over 1/2" thick (1;2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge. i) 12"x18"/ 12"x24"/ 10"x24"/ 8"x24"/ 12"x36"	128	P.Sft		
24	Ch:12 P-81 Item 7 (b)	Providing and fixing 1st class solid wood wrought joinery in panelled or panelled and glazed doors and windows of specified thickness with 1" thick solid wood panels with step and 1-1/2"x2-1/2" beadings all around the panels i/c the cost of Tower bolt and handles complete in all respect (Excluding the cost of sliding bolt,lock and chowkats (frame), etc.) as approved and directed by the Engineer Incharge Oak/Ash wood Door 1-1/2" thick (40 mm)	43	P.Sft		
25	Ch:12 P-83 Item 17 (iii)	Providing and fixing 2" wide MS/ GI Chowkat single/ double rebate made of 16 SWG MS sheet pressed/ welded/ supported with M.S. flat 1-1/4"x1/8" i/c 6" long M.S. Flat 1"x1/8" holdfasts (6-Nos) welded/ screwed, punching of lock hole covered with MS Box, coating with antirust paint including filling with cement sand mortar (1:8) and embedding holdfast in cement concrete (1:2:4), complete in all respect as approved and directed by Engineer Incharge. 5.5" wide	43	P.Sft		

Contractor

Executive Engineer

26	Ch:25 P-208 Item 52	Providing and fitting all types of glazed aluminium windows of anodised/ powder coated partly fixed and partly sliding using delux sections of approved manufacturer having frame size of 100 x 30 mm (4"x1-1/4") and leaf frame sections of 50 x 20 mm (2"x3/4"), all of 1.6mm thickness including 5 mm thick imported tinted glass with rubber gasket using approved standard latches, hardware etc., as approved by the Engineer in-charge.	48	P.Sft		
27	Ch:25 P-208 Item 53	Providing and fixing Aluminum Fly screen comprising of Fiber/ Aluminum wire guaze (Malasian) fixed in aluminum frame of approved manufacturer browns Colour/ powder coated of size 1½"x1½" and 1.6 mm thick with rubber gasket i/c cost of Hardware as approved and directed by the engineer incharge complete in all respect.	24	P.Sft		
28	Ch:25 P-209 Item 59 (i)	Providing and fixing M.S. grill fabricated with MS Square polished Vertical/horizontal Bars of specified size @ 4" c/c ' passed through punched holes in MS Patti of 1-1/4"x1/8" i/c the cost of 1-1/4"x1/8" MS patti for Frame of windows and painting 3 coat complete in all respect as approved and directed by the Engineer Incharge. 3/8" Squar Bars	48	P.Sft		
29	Ch:9 P-61 Item 5 + Ch:26 P-214 Item 37 (ii)	Single layer of tiles 9" x 4 ½" x 1 ½" laid over 4" earth and 1" 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 included polythene sheet 500" gauge. (.005" thick)	130	%Sft		
30	Ch: 9 P-63 Item 15	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	1	Each		
31	Ch: 9 P-63 Item 20 (a)	Cast iron rain water down pipe fixed in position, excluding heads and shoes, but including painting and clamps, etc:- 4" dia (100 mm) cast iron down pipe.	12	P.Rft		
32	Ch: 9 P-63 Item 21	Rain water down pipe cast iron head fixed in place, including cost of clamp holdfast and painting.	1	Each		
33	Ch: 9 P-63 Item 22	Shoes, bends or offsets for cast iron rain water down pipe, including fixing and painting.	1	Each		
34	Ch: 11 P-77 Item 23 (a) iii	Distempering:- new surface:- three coats	161	%Sft		

Contractor

Executive Engineer

35	Ch: 13 P-96 Item 31 (a+b)	Preparing surface and painting with emulsion paint:- three coats on new surface	439	%Sft		
36	Ch: 13 P-97 Item 33A (a) (i+ii)	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:	875	%Sft		
37	N.S	Extra labour and mould and finishing of ornamental pillar 12"x12" including Base and top as per drawing and design	1	P.Job		
				TOTAL		

Contractor

Executive Engineer

**EXTERNAL DEVELOPMENT WORKS FOR (800) BOYS JINNAH HOSTEL (BLOCK-B) AT AGRICULTURE
UNIVERSITY FAISALABAD.**

ELECTRIC INSTALLATION

Construction of Security Hut with Toilet (Hostels Gate).

Sr. No.	Description of Item of Work	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
1	Supply and erection of PVC pipe for wiring recessed in walls, including inspection boxes, pull boxes, hooks, cutting jharries, and repairing surface, etc., complete with all specials.				
	1" i/d for points				
	: 6+13*3 = 45Ft.	45			
	1" i/d for power wiring 16-ft	16			
	For Main Cable 200-ft	200			
	Total	261	Per Rft.		
	3/4" dia	30	Per Rft.		
2	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):-				
	a) 250/440 volts, PVC insulated:				
	i) 3/0.74 mm (3/0.029")				
	: = 100 ft	100	Per Rft.		
3	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 250/440 volts grade cable (BSS-2004), in prelaid PVC pipes/M.S. conduit/G.I. pipe/wooden strip batten/wooden casing and				

Contractor

Executive Engineer

	capping/trenches, etc. (rate for cable only):-				
	For Power Wiring :				
	iv) 7/0.91 mm (7/0.036")	40	Per Rft.		
4	Supply and erection of copper conductor cables for service connection, in prelaidd pipe/G.I. wire/trenches, etc. (rate for cable only):-				
	a) PVC insulated, PVC sheathed twin core, 250/440 volts.				
	v) 7/1.12 mm (7/0.044") for main connection	200	Per Rft.		
5	S/E of M.S. sheet box of 16 SWG, 10 cm (4"), with 4.75 mm thick (3/16") Bakelite sheet top, for to recessed wiring, including making holes for regulators, switches, plugs, etc.				
	ii) (7"x4")	1	Each		
	ii) (4"x4")	2	Each		
6	Supply and erection of wall type/pole type bracket, with double cover water tight reflector, flexible wire and brass bolder.	1	Each		
7	Supply and erection of switches 5 Amp.				
	ii) piano type	6	Each		
8	Supply and erection of wall socket with 3 pin 5 Amp, shoe.	2	Each		
9	Supply and erection of 3 pin, 10/15 Amp. wall socket.				
	ii) recessed type	1	Each		
10	Supply and erection of energy saver bulbs 24 W	3	Each		
11	Ceiling Fans 56" sweep	1	Each		
12	Erection of ceiling fan alongwith regulator (all sizes), including carriage from local Railway Station/Store to site of work, electric wire/cable for suspension rod and board connection, and cutting, threading on the rod, where necessary.	1	Each		
13	S/E of exhaust fan 18" size iron body	1	Each		
	Total - Rs.				

Contractor

Executive Engineer

EXTERNAL DEVELOPMENT WORKS FOR (800) BOYS JINNAH HOSTEL (BLOCK-B) AT AGRICULTURE
UNIVERSITY FAISALABAD.
PUBLIC HEALTH
PORTION
Construction of Security Hut with Toilet (Hostels Gate).
ABSTRACT OF COST

S.N.	Ch # Item #	Description	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
1	Ch: 19 P-125 Item 3	Providing and fitting European Coupled set of Water Closet (WC) and flushing Cistern of PORTA brand (full size) i/c the cost of CP/ rubber connection, thimble, seat cover and rawal bolts complete in all respects as approved and directed by the Engineer Incharge.	1	Each		
2	Ch: 19 P-125 Item 7 (i)	Providing and fitting glazed earthen ware wash hand basin 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc. white, with pedestal	1	Each		
3	Ch: 19 P-128 Item 32 (i)	Providing and fitting, chromium plated or brass oxidised, swan neck cock 15 mm (½") dia single way.	1	Each		
4	Ch: 19 P-132 Item 52	Providing and fixing CP bath Room Set made of Sonex/ Master/ Faisal comprising of 3-No Tee stop cocks, lever type Basin Mixer, double Bib Cock, open wall shower, Muslim shower, waste coupling and bottle trap etc. complete in all respect as approved and directed by the Engineer incharge.				
	iii)	Double Bib Cock	1	Each		
	v)	Muslim shower	1	Each		
	iv)	Open Type Wall Shower	1	Each		
5	Ch: 19 P-128 Item 28	Providing and fixing chromium plated tee stop cock 15mm (½").	2	Each		
6	Ch: 19 P-133 Item 1	Providing and fixing, chromium plated waste coupling:- 4 cm (1½")	1	Each		
7	Ch: 19 P-133 Item 3	Providing and fixing, waste pipe of PVC:- 4 cm (1½")	1	Each		

Contractor

Executive Engineer

8	Ch: 19 P-128 Item 26	Providing and fixing underground stop cock 13 mm (½”), with chromium plated cover.	3	Each		
9	Ch: 19 P-129 Item 34 (ii)	Providing and fixing, floor trap of cast iron, including concrete chamber all round, and C.I. grating:- 10x7.5 cm (4"x3")	2	Each		
10	Ch: 23 P-153 Item 28 (c)	Providing, laying, cutting, jointing, testing and disinfecting pipe line in trenches with PVC/ uPVC pipes of B.S.S. with `D' Class working pressure complete in all respects:- 4" dia	12	P.Rft		
11	Ch: 23 P-159 Item 47 (b) (ii)	Providing, laying, testing and commissioning of POLY PROPYLENE RANDOM COPOL YMER (PPRC) water supply pipe made of (Dadex/ Popular/ Beta/ BBJ) with specified pressure rating PN (PRESSURE NOMINAL) and conforming to DIN 8077-8078 code i/c cost of solvent, specials, making jharries complete in all respect as approved and directed by Engineer Incharge.(Internal/External Diameters mentioned). PN-20 Pipe				
		3/4" dia (25mm)	30	P.Rft		
	Ch: 23 P-159 Item 47 (b) (iii)	1" dia (32mm)	100	P.Rft		
12	Ch: 19 P-127 Item 23	Providing and fixing BATHROOM ACCESSORIES (7-piece set) MASTER BRAND - One Cosmetic Shelf, One Towel rod with bracket, One soap dish, One double hook, One towel ring, brush holder, toilet paper holder & looking glass i/c the cost of hardwares etc complete in all respect as approved and directed by the Engineer incharge.				
	i)	Plastic soap dish	1	Each		
	ii)	Plastic toilet paper holder	1	Each		
	iii)	Plastic tower rail	1	Each		
	iv)	Looking glass with plastic frame	1	Each		
13	Ch: 19 P-128 Item 31	Providing and fixing gun metal peet/gate valve (screwed):-				

Contractor

Executive Engineer

	i)	30 mm (1¼") dia	1	Each		
14	Ch: 19 P-133 Item 7	Providing and fixing 1.5 cm (½") dia connection, including check nuts, etc.:-				
	i)	plastic rubber connection	2	Each		
15	Ch: 21 P-138 Item 7 (b)	Constructing gully grating chamber, 12"x12", (300x300 mm) complete in all respects: concrete Gully trap.	1	Each		
16	Ch: 3 P-32 Item 42 (i)	Earthwork excavation in open cutting for sewers and manholes as shown in drawings including shuttering and timbering, dressing to correct section and dimensions according to templates and levels, and removing surface water, in all types of soil except shingle, gravel and rock:- 0 ft. to 7.0 ft. (0 to 2.10 m) depth	500	%oCft		
17	Ch: 21 P-136 Item 1 (i)	Providing and laying RCC pipe sewer moulded with cement concrete 1:1½:3, conforming to ASTM Specification C-76-79, Class II wall B, including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing with rubber ring, cutting pipe where necessary, testing, etc. complete 6" dia	100	P.Rft		
		TOTAL-A				
		<u>NON MRS ITEMS</u>				
1	NS	Providing and fixing stainless steel floor trap jali 6"x6" size openable heavy type.	1	Each		
2	NS	Providing and fixing heavy duty ball/ handle valve				
		¾" dia	1	Each		
		1" dia	1	Each		

Contractor

Executive Engineer

3		Construction of Manhole Chamber 2.5'x2.5'x3' clear size with 9" thick brick masonry wall in cement sand mortar ratio 1:4 with ½" thick cement plaster in ratio 1:3 with 6" thick RCC manhole cover in 6" thick RCC slab complete in all respect as approved by the Engineer Incharge. (Based on Schedule)	3	P.Job		
		TOTAL-B				
		TOTAL A+B				

Contractor

Executive Engineer

**EXTERNAL DEVELOPMENT WORKS FOR (800) BOYS JINNAH HOSTEL (BLOCK-B) AT AGRICULTURE
UNIVERSITY FAISALABAD.
FOUNDATION OF HOSTELS GATE PILLARS (3-NO.)**

S.N.	Ref:	Description	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
1	Ch: 3 P-30 Item 21 (a) ii	Excavation in foundation of building, bridges and other structure, i/ c dag belling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain and lift upto 5' in ordinary soil.	54	%Cft		
2	Ch: 6 P-41 Item 5 (i)	Cement concrete plain i/c placing, compacting ,finishing and curing complete including screening and washing of stone aggregate 1:4:8.	9	%Cft		
3	Ch: 6 P-42 Item 6 (a-iii) (3)	Reinforcement of cement concrete in slab of rafts/ strip foundation, base of column and retaining walls: etc and other structural members other than these mentioned in above not requiring from work (i. e horizontal shuttering) complete in all respect (1:2:4).	27	P.Cft		
4	Ch: 6 P-42 Item 6 (a-i) (3)	Reinforcement cement concrete in roof slab, beams, columns, lintors, girders, and other structural members laid in site or pre cast laid in position or prestressed members cost in site, complete in all respect (1:2:4). Using course sand	20	P.Cft		
5	Ch: 6 P-45 Item 12-b	Fabrication of mild steel reinforcement for cement concrete i/ c cutting, bending, laying, in position, making joints and fastening i/ c cost of binding wire and labour charges for binding of steel reinforcement (Also i/c removal of rust from bars) deformed bars Grade-40	144	%Kg		
6	Ch: 11 P-76 Item 9 (b)	Cement plaster 1:4 upto 20' (6.00 m) height:- ½" (13 mm) thick	49	%Sft		
		TOTAL				

Contractor

Executive Engineer

**EXTERNAL DEVELOPMENT WORKS FOR (800) BOYS JINNAH HOSTEL (BLOCK-B) AT AGRICULTURE
UNIVERSITY FAISALABAD.**

STEEL GATE, WICKET GATE, PILLAR AND GATE WAY

S.N.	Ref:	Description	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
1		Making and fixing 16'x(7' at end and 9' at mid) size Steel Gate and wicket gate of size 4'x7' fixed with Holdfast in RCC Pillars of Gate Way comprising of leaf frame of double M.S. Angle Iron 2"x2"x3/8", fixed with 3/4"x3/4" M.S. Square bars at 6-3/4" c/c alongwith Intermediate horizontal braces of M.S. Flat 2"x1/4" at 5 locations, i/c cost of arrows 6" of M.S Sq bars 3/4"x3/4" and S-shape design and Top barchi using Flat Iron 3/4"x3/16" fixed on top and 3/4"x3/4" bar mid of gate as per drawing; at outer sides and middle pillar of M.S sq pipe 6"x6"x3/8" M.S. Flat 2"x1/4" as per drawing, i/c cost of 2-No rollers, with 3"x3"x3/8" size M.S. Tee Iron, rolling track 6-No heavy rolled flat iron hinges for main gate and 3-No. for wicket gate, 2-No iron M.S bar sliding bolts 24" long of 1" dia for main gate and 2-No. iron sliding bolt 1" dia 12" long for wicket gate, painting 3 coats, complete in all respects as approved by the Engineer incharge.	156	P.Sft		
		TOTAL				

Contractor

Executive Engineer

**EXTERNAL DEVELOPMENT WORKS FOR (800) BOYS JINNAH HOSTEL (BLOCK-B) AT AGRICULTURE
UNIVERSITY FAISALABAD.**

Construction of Gateway of Main Gate at Jail Road

S.N.	Ref:	Description	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
1	Ch: 3 P-30 Item 21 (a) ii	Excavation in foundation of building, bridges and other structure, i/c dag belling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain and lift upto 5' in ordinary soil.	160	%Cft		
2	Ch: 6 P-41 Item 5 (5)	Cement Concrete Plain i/c placing, compacting,finishing and curing complete including screening and washing of stone aggregate 1:2:4.	16	%Cft		
3	Ch: 6 P-42 Item 6 (a)	Reinforcement of cement concrete in slab of rafts/ strip foundation, base of column and retaining walls: etc and other structural members other than these mentioned in above not requiring from work (i. e horizontal shuttering) complete in all respect (1:2:4).	50	P.Cft		
4	Ch: 6 P-42 Item 6 (a-i) (3)	Reinforcement cement concrete in roof slab, beams, columns, lintors, girders, and other structural members laid in site or pre cast laid in position or prestressed members cost in site, complete in all respect (1:1½:3). Using course sand	466	P.Cft		
5	Ch: 6 P-45 Item 12- b	Fabrication of mild steel reinforcement for cement concrete i/ c cutting, bending, laying, in position, making joints and fastening i/ c cost of binding wire and labour charges for binding of steel reinforcement (Also i/c removal of rust from bars) deformed bars Grade-40	3343	%Kg		
6	Ch: 11 P-76 Item 8 (b)	Cement plaster 1:3 upto 20' (6.00 m) height:- 1/2" (13 mm) thick	699	%Sft		
7	NS	Finishing of exterior surface of walls with Tramofine Coating / Crete Sand Coating i/c cost of all labour and Material Charges as approved by the Engineer Incharge.	699	P.Sft		

Contractor

Executive Engineer

8	NS	Extra labour and mould and finishing of ornamental pillar size 2'x2' including Base and top and top crown of Gate way as per drawing/design.	2	Each		
		TOTAL				

Contractor

Executive Engineer

**EXTERNAL DEVELOPMENT WORKS FOR (800) BOYS JINNAH HOSTEL (BLOCK-B) AT AGRICULTURE
UNIVERSITY FAISALABAD.
CONSTRUCTION OF SECURITY HUT AT
(MAIN GATE AT JAIL ROAD) .**

S.N.	Ref:	Description	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
1	Ch: 3 P-30 Item 21 (a) ii	Excavation in foundation of building, bridges and other structure, i/ c dag belling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain and lift upto 5' in ordinary soil.	516	%oCft		
2	Ch: 3 P-27 Item 5 (i)	Filling, watering and ramming earth under floors:- with surplus earth from foundation, etc.	344	%oCft		
3	Ch: 3 P-27 Item 5 (ii)	Filling, watering and ramming earth under floors:- with new earth excavated from outside, lead upto 2 mile.	133	%oCft		
4	Ch: 6 P-41 Item 3 (d)	Cement concrete brick or stone ballast 1½" to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- Ratio 1:6:12	137	%Cft		
5	Ch: 7 P-52 Item 4 (i)	Pacca brick work in foundation & plinth in cement sand mortar (1:6).	470	%Cft		
6	Ch: 6 P-47 Item 36 (i)	P/L Damp Proof Course of Cement Concrete 1:2:4, 1-1/2" thick (Using Cement Sand and Shingle i/c Butumen Coating	85	%Sft		
7	Ch: 6 P-49 Item 36 (iii) a	P/L Vertical Damp Proof Course with Cement Sand Plaster, 3/4" thick and Butumen Coating (Ratio 1:2)	47	%Sft		
8	Ch: 7 P-53 Item 5 (i)	Pacca brick work in ground floor (1:6).	221	%Cft		
9	Ch: 7 P-53 Item 5 (i)	Pacca brick work in ground floor (1:4).	63	%Cft		
10	Ch: 6 P-42 Item 6 (a-i) (3)	Reinforcement cement concrete in roof slab, beams, columns, linters, girders, and other structural members laid in site or pre cast laid in position or prestressed members cost in site, complete in all respect (1:2:4). Using course sand	115	P.Cft		

Contractor

Executive Engineer

11	Ch: 6 P-45 Item 12-b	Fabrication of mild steel reinforcement for cement concrete i/ c cutting, bending, laying, in position, making joints and fastening i/ c cost of binding wire and labour charges for binding of steel reinforcement (Also i/c removal of rust from bars) deformed bars Grade-40	392	%Kg		
12	Ch: 11 P-76 Item 10 (b)	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. 1:3	304	%Sft		
13	Ch: 11 P-76 Item 8 (b)	Cement plaster 1:5 upto 20' (6.00 m) height:- 1/2" (13 mm) thick	619	%Sft		
14	Ch: 11 P-76 Item 9 (b)	Cement plaster 1:4 upto 20' (6.00 m) height:- 1/2" (13 mm) thick	546	%Sft		
15	Ch:6 P-41 Item 5 (f)	Cement Concrete Plain 1:2:4 i/c placing compacting, finishing & curing complete (including screening and washing of stone aggregates) Coping	17	%Cft		
16	Ch:7 P-57 Item 30	Supply & filling sand under floor or plugging in wells.	97	%Cft		
17	Ch:10 P-68 Item 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.	97	%Cft		
18	Ch:10 P-70 Item 22 (a)	1½"(40 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 1"(25 mm) thick floor of 1:2:4 cement concrete, including rubbing and polishing complete with finishing :- using white cement	109	%Sft		
19	Ch:10 P-72 Item 37 (ii)	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: using gray cement: ½" thick (13 mm)	32	%Sft		

Contractor

Executive Engineer

20	Ch:10 P-69 Item 15 (c)	Providing and laying topping of cement concrete 1:2:4, including surface finishing and dividing in panels:- 1½" thick	272	%Sft		
21	Ch:10 P-72 Item 40 (a)	Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels Size 1½" x 3/8" (40 x 10 mm)	163	P.Rft		
22	Ch:10 P-70 Item 24 (i)	Providing and laying superb quality Ceramic tile floors of Master brand of specified size, Glossy/ Matt/ Texture of approved Color and Shade as per approved design with adhesive bond, over ¾" thick (1;2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge. i) 12"x18"/ 12"x24"/ 10"x24"/ 8"x24"/ 12"x36"	25	P.Sft		
23	Ch:10 P-70 Item 25 (i)	Providing and laying superb quality Ceramic tile Dado of Master brand of specified size, Glossy/ Matt/ Texture Skirting/ Dado of approved Color and Shade as per approved design with adhesive bond, over 1/2" thick (1;2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge. i) 12"x18"/ 12"x24"/ 10"x24"/ 8"x24"/ 12"x36"	128	P.Sft		
24	Ch:12 P-81 Item 7 (b)	Providing and fixing 1st class solid wood wrought joinery in panelled or panelled and glazed doors and windows of specified thickness with 1" thick solid wood panels with step and 1-1/2"x2-1/2" beadings all around the panels i/c the cost of Tower bolt and handles complete in all respect (Excluding the cost of sliding bolt,lock and chowkats (frame), etc.) as approved and directed by the Engineer Incharge Oak/Ash wood Door 1-1/2" thick (40 mm)	43	P.Sft		
25	Ch:12 P-83 Item 17 (iii)	Providing and fixing 2" wide MS/ GI Chowkat single/ double rebate made of 16 SWG MS sheet pressed/ welded/ supported with M.S. flat 1-1/4"x1/8" i/c 6" long M.S. Flat 1"x1/8" holdfasts (6-Nos) welded/ screwed, punching of lock hole covered with MS Box, coating with antirust paint including filling with cement sand mortar (1:8) and embedding holdfast in cement concrete (1:2:4), complete in all respect as approved and directed by Engineer Incharge. 5.5" wide	43	P.Sft		

Contractor

Executive Engineer

26	Ch:25 P-208 Item 52	Providing and fitting all types of glazed aluminium windows of anodised/ powder coated partly fixed and partly sliding using delux sections of approved manufacturer having frame size of 100 x 30 mm (4"x1-1/4") and leaf frame sections of 50 x 20 mm (2"x3/4"), all of 1.6mm thickness including 5 mm thick imported tinted glass with rubber gasket using approved standard latches, hardware etc., as approved by the Engineer in-charge.	48	P.Sft		
27	Ch:25 P-208 Item 53	Providing and fixing Aluminum Fly screen comprising of Fiber/ Aluminum wire guaze (Malasian) fixed in aluminum frame of approved manufacturer browns Colour/ powder coated of size 1½"x½" and 1.6 mm thick with rubber gasket i/c cost of Hardware as approved and directed by the engineer incharge complete in all respect.	24	P.Sft		
28	Ch:25 P-209 Item 59 (i)	Providing and fixing M.S. grill fabricated with MS Square polished Vertical/horizontal Bars of specified size @ 4" c/c ' passed through punched holes in MS Patti of 1-1/4"x1/8" i/c the cost of 1-1/4"x1/8" MS patti for Frame of windows and painting 3 coat complete in all respect as approved and directed by the Engineer Incharge. 3/8" Squar Bars	48	P.Sft		
29	Ch:9 P-61 Item 5 + Ch:26 P-214 Item 37 (ii)	Single layer of tiles 9" x 4 ½" x 1 ½" laid over 4" earth and 1" 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 included polythene sheet 500" gauge. (.005" thick)	130	%Sft		
30	Ch: 9 P-63 Item 15	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	1	Each		
31	Ch: 9 P-63 Item 20 (a)	Cast iron rain water down pipe fixed in position, excluding heads and shoes, but including painting and clamps, etc:- 4" dia (100 mm) cast iron down pipe.	12	P.Rft		
32	Ch: 9 P-63 Item 21	Rain water down pipe cast iron head fixed in place, including cost of clamp holdfast and painting.	1	Each		
33	Ch: 9 P-63 Item 22	Shoes, bends or offsets for cast iron rain water down pipe, including fixing and painting.	1	Each		

Contractor

Executive Engineer

34	Ch: 11 P-77 Item 23 (a) iii	Distempering:- new surface:- three coats	304	%Sft		
35	Ch: 13 P-96 Item 31 (a+b)	Preparing surface and painting with emulsion paint:- three coats on new surface	619	%Sft		
36	Ch: 13 P-97 Item 33A (a) (i+ii)	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:	546	%Sft		
37	Ch: 9 P-67 Item 50	Providing and laying high density single profile Spanish glazed tapered barrel type of 4"-5½" dia Terra Cotta Khaprail Tile dipped or sealed with a water repellent, with Terra Cotta base plate (10"x16"), resistant to salt attack laid with laps and duly interlocked on slopping roof over 1/2" thick (1:3) cements and mortar i/c cost of all material and labour complete in all respect as approved and directed by the Engineer Incharge.	252	P.Sft		
38	N.S	Extra labour and mould and finishing of ornamental pillar 12"x12" including Base and top as per drawing and design	1	P.Job		
		TOTAL				

Contractor

Executive Engineer

**EXTERNAL DEVELOPMENT WORKS FOR (800) BOYS JINNAH HOSTEL (BLOCK-B) AT AGRICULTURE
UNIVERSITY FAISALABAD.**

ELECTRIC INSTALLATION

**CONSTRUCTION OF SECURITY HUT AT
(MAIN GATE AT JAIL ROAD) .**

Sr. No.	Description of Item of Work	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
1	Supply and erection of PVC pipe for wiring recessed in walls, including inspection boxes, pull boxes, hooks, cutting jharries, and repairing surface, etc., complete with all specials.				
	1" i/d for points				
	: 6+13*3 = 45Ft.	45			
	1" i/d for power wiring 16-ft	16			
	For Main Cable 200-ft	200			
	Total	261	Per Rft.		
	3/4" dia	30	Per Rft.		
2	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):-				
	a) 250/440 volts, PVC insulated:				
	i) 3/0.74 mm (3/0.029")				
	: = 100 ft	100	Per Rft.		
3	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 250/440 volts grade cable				
	(BSS-2004), in prelaid PVC pipes/M.S. conduit/G.I.				

Contractor

Executive Engineer

	pipe/wooden strip batten/wooden casing and				
	capping/trenches, etc. (rate for cable only):-				
	For Power Wiring :				
	iv) 7/0.91 mm (7/0.036")	40	Per Rft.		
4	Supply and erection of copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches, etc. (rate for cable only):-				
	a) PVC insulated, PVC sheathed twin core, 250/440 volts.				
	v) 7/1.12 mm (7/0.044")	200	Per Rft.		
5	S/E of M.S. sheet box of 16 SWG, 10 cm (4"), with 4.75 mm thick (3/16") Bakelite sheet top, for to recessed wiring, including making holes for regulators, switches, plugs, etc.				
	ii) (7"x4")	1	Each		
	ii) (4"x4")	2	Each		
6	Supply and erection of wall type/pole type bracket, with double cover water tight reflector, flexible wire and brass bolder.	1	Each		
7	Supply and erection of switches 5 Amp.				
	ii) piano type	6	Each		
8	Supply and erection of wall socket with 3 pin 5 Amp, shoe.	2	Each		
9	Supply and erection of 3 pin, 10/15 Amp. wall socket.				
	ii) recessed type	1	Each		
10	Supply and erection of energy saver bulbs 24 W	3	Each		
11	Ceiling Fans 56" sweep	1	Each		

Contractor

Executive Engineer

12	Erection of ceiling fan alongwith regulator (all sizes), including carriage from local Railway Station/Store to site of work, electric wire/cable for suspension rod and board connection, and cutting, threading on the rod, where necessary.	1	Each		
13	S/E of exhaust fan 18" size iron body	1	Each		
	Total - Rs				

Contractor

Executive Engineer

**EXTERNAL DEVELOPMENT WORKS FOR (800) BOYS JINNAH HOSTEL (BLOCK-B) AT AGRICULTURE
UNIVERSITY FAISALABAD.
PUBLIC HEALTH SECURITY HUT AT
(MAIN GATE AT JAIL ROAD).**

S.N.	Ch # Item#	Description	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
-	-	-	-	-	-	-
1	Ch: 19 P-125 Item 3	Providing and fitting European Coupled set of Water Closet (WC) and flushing Cistern of PORTA brand (full size) i/c the cost of CP/ rubber connection, thimble, seat cover and rawal bolts complete in all respects as approved and directed by the Engineer Incharge.	1	Each		
2	Ch: 19 P-125 Item 7 (i)	Providing and fitting glazed earthen ware wash hand basin 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc. white, with pedestal	1	Each		
3	Ch: 19 P-128 Item 32 (i)	Providing and fitting, chromium plated or brass oxidised, swan neck cock 15 mm (½") dia single way.	1	Each		
4	Ch: 19 P-132 Item 52	Providing and fixing CP bath Room Set made of Sonex/ Master/ Faisal comprising of 3-No Tee stop cocks, lever type Basin Mixer, double Bib Cock, open wall shower, Muslim shower, waste coupling and bottle trap etc. complete in all respect as approved and directed by the Engineer incharge.				
	iii)	Double Bib Cock	1	Each		
	v)	Muslim shower	1	Each		
	iv)	Open Type Wall Shower	1	Each		
5	Ch: 19 P-128 Item 28	Providing and fixing chromium plated tee stop cock 15mm (½").	2	Each		
6	Ch: 19 P-133 Item 1	Providing and fixing, chromium plated waste coupling:- 4 cm (1½")	1	Each		
7	Ch: 19 P-133 Item 3	Providing and fixing, waste pipe of PVC:- 4 cm (1½")	1	Each		

Contractor

Executive Engineer

8	Ch: 19 P-128 Item 26	Providing and fixing underground stop cock 13 mm (½"), with chromium plated cover.	3	Each		
9	Ch: 19 P-129 Item 34 (ii)	Providing and fixing, floor trap of cast iron, including concrete chamber all round, and C.I. grating:- 10x7.5 cm (4"x3")	2	Each		
10	Ch: 23P-153 Item 28 (c)	Providing, laying, cutting, jointing, testing and disinfecting pipe line in trenches with PVC/ uPVC pipes of B.S.S. with 'D' Class working pressure complete in all respects:- 4" dia	12	P.Rft		
11	Ch: 23 P-159 Item 47 (b) (ii)	Providing, laying, testing and commissioning of POLY PROPYLENE RANDOM COPOL YMER (PPRC) water supply pipe made of (Dadex/ Popular/ Beta/ BBJ) with specified pressure rating PN (PRESSURE NOMINAL) and conforming to DIN 8077-8078 code i/c cost of solvent, specials, making jharries complete in all respect as approved and directed by Engineer Incharge.(Internal/External Diameters mentioned). PN-20 Pipe				
		3/4" dia (25mm)	30	P.Rft		
	Ch: 23 P-159 Item 47 (b) (iii)	1" dia (32mm)	100	P.Rft		
12	Ch: 19 P-127 Item 23	Providing and fixing BATHROOM ACCESSORIES (7-piece set) MASTER BRAND - One Cosmetic Shelf, One Towel rod with bracket, One soap dish, One double hook, One towel ring, brush holder, toilet paper holder & looking glass i/c the cost of hardwares etc complete in all respect as approved and directed by the Engineer incharge.				
	i)	Plastic soap dish	1	Each		
	ii)	Plastic toilet paper holder	1	Each		
	iii)	Plastic tower rail	1	Each		
	iv)	Looking glass with plastic frame	1	Each		
13	Ch: 19 P-128 Item 31	Providing and fixing gun metal peet/gate valve (screwed):-				
	i)	30 mm (1¼") dia	1	Each		

Contractor

Executive Engineer

14	Ch: 19 P-133 Item 7	Providing and fixing 1.5 cm (½") dia connection, including check nuts, etc.:-				
	i)	plastic rubber connection	2	Each		
15	Ch: 21 P-138 Item 7 (b)	Constructing gully grating chamber, 12"x12", (300x300 mm) complete in all respects: concrete Gully trap.	1	Each		
16	Ch: 3 P-32 Item 42 (i)	Earthwork excavation in open cutting for sewers and manholes as shown in drawings including shuttering and timbering, dressing to correct section and dimensions according to templates and levels, and removing surface water, in all types of soil except shingle, gravel and rock:- 0 ft. to 7.0 ft. (0 to 2.10 m) depth	500	%oCft		
17	Ch: 21 P-136 Item 1 (i)	Providing and laying RCC pipe sewer moulded with cement concrete 1:1½:3, conforming to ASTM Specification C-76-79, Class II wall B, including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing with rubber ring, cutting pipe where necessary, testing, etc. complete 6" dia	100	P.Rft		
		TOTAL-A				
		<u>NON MRS ITEMS</u>				
1	NS	Providing and fixing stainless steel floor trap jali 6"x6" size openable heavy type.	1	Each		
2	NS	Providing and fixing heavy duty ball/ handle valve				
		¾" dia	1	Each		
		1" dia	1	Each		

Contractor

Executive Engineer

3		Construction of Manhole Chamber 2.5'x2.5'x3' clear size with 9" thick brick masonry wall in cement sand mortar ratio 1:4 with ½" thick cement plaster in ratio 1:3 with 6" thick RCC manhole cover in 6" thick RCC slab complete in all respect as approved by the Engineer Incharge.	3	P.Job		
		TOTAL-B				
		TOTAL A+B				

Contractor

Executive Engineer

EXTERNAL DEVELOPMENT WORKS FOR (800) BOYS JINNAH HOSTEL (BLOCK-B) AT AGRICULTURE UNIVERSITY
FAISALABAD.
MAKING AND FIXING STEEL GATE WITH STEEL PILLARS
ERECTED ON RCC FOUNDATION

S.N.	Description	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
-	-	-	-	-	-
1	Making and fixing 12'x(7' at end and 9' at mid) size Steel Gate and wicket gate of size 4'x7' fixed with M.S. Pillars comprising of leaf frame of double M.S. Angle Iron 2"x2"x3/8", fixed with 3/4"x3/4" M.S. Square bars at 6-3/4" c/c alongwith Intermediate horizontal braces of M.S. Flat 2"x1/4" at 5 locations, i/c cost of arrows 6" of M.S Sq bars 3/4"x3/4" and S-shape design and Top barchi using Flat Iron 3/4"x3/16" fixed on top and 3/4"x3/4" bar mid of gate as per drawing; rate also includes cost of 2-No steel pillars having size 12"x12" and 9 1/2' high above road level, at outer sides and middle pillar of M.S sq pipe 6"x6"x3/8" assembled with 4-No vertical posts, 4-No horizontal frame members of double M.S. Angle Iron 2 1/2"x2 1/2"x3/8" at top and bottom of each pillar, 5-No intermediate horizontal braces of M.S. Flat 2"x1/4" as per drawing, i/c cost of 2-No rollers, with 3"x3"x3/8" size M.S. Tee Iron, rolling track 6-No heavy rolled flat iron hinges for main gate and 3-No. for wicket gate, 2-No iron M.S bar sliding bolts 24" long of 1" dia for main gate and 2-No. iron sliding bolt 1" dia 12" long for wicket gate, painting 3 coats, complete in all respects as approved by the Engineer incharge.	124	P.Sft		
	TOTAL				

Contractor

Executive Engineer

**EXTERNAL DEVELOPMENT WORKS FOR (800) BOYS JINNAH HOSTEL (BLOCK-B) AT AGRICULTURE
UNIVERSITY FAISALABAD.**

Construction of Security Hut with Toilet.

S.N .	Ref:	Description	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
1	Ch: 3 P-30 Item 21 (a) ii	Excavation in foundation of building, bridges and other structure, i/ c dag belling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain and lift upto 5' in ordinary soil.	516	%oCft		
2	Ch: 3 P-27 Item 5 (i)	Filling, watering and ramming earth under floors:- with surplus earth from foundation, etc.	344	%oCft		
3	Ch: 3 P-27 Item 5 (ii)	Filling, watering and ramming earth under floors:- with new earth excavated from outside, lead upto 2 mile.	133	%oCft		
4	Ch: 6 P-41 Item 3 (d)	Cement concrete brick or stone ballast 1½" to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- Ratio 1:6:12	137	%Cft		
5	Ch: 7 P-52 Item 4 (i)	Pacca brick work in foundation & plinth in cement sand mortar (1:6).	470	%Cft		
6	Ch: 6 P-47 Item 36 (i)	P/L Damp Proof Course of Cement Concrete 1:2:4, 1-1/2" thick (Using Cement Sand and Shingle i/c Butumen Coating	84.469	%Sft		

Contractor

Executive Engineer

7	Ch: 6 P-49 Item 36 (iii) a	P/L Vertical Damp Proof Course with Cement Sand Plaster, 3/4" thick and Butumen Coating (Ratio 1:2)	46.375	%Sft		
8	Ch: 7 P-53 Item 5 (i)	Pacca brick work in ground floor (1:6).	255	%Cft		
9	Ch: 7 P-53 Item 5 (i)	Pacca brick work in ground floor (1:4).	63	%Cft		
10	Ch: 6 P-42 Item 6 (a-i) (3)	Reinforcement cement concrete in roof slab, beams, columns, linters, girders, and other structural members laid in site or pre cast laid in position or prestressed members cost in site, complete in all respect (1:2:4). Using course sand	126	P.Cft		
11	Ch: 6 P-45 Item 12-b	Fabrication of mild steel reinforcement for cement concrete i/ c cutting, bending, laying, in position, making joints and fastening i/ c cost of binding wire and labour charges for binding of steel reinforcement (Also i/c removal of rust from bars) deformed bars Grade-40	429	%Kg		
12	Ch: 11 P-76 Item 10 (b)	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. 1:3	161	%Sft		
13	Ch: 11 P-76 Item 8 (b)	Cement plaster 1:5 upto 20' (6.00 m) height:- 1/2" (13 mm) thick	439	%Sft		

Contractor

Executive Engineer

14	Ch: 11 P-76 Item 9 (b)	Cement plaster 1:4 upto 20' (6.00 m) height:- 1/2" (13 mm) thick	875	%Sft		
15	Ch:6 P-41 Item 5 (f)	Cement Concrete Plain 1:2:4 i/c placing compacting, finishing & curing complete (including screening and washing of stone aggregates) Coping	17	%Cft		
16	Ch:7 P-57 Item 30	Supply & filling sand under floor or plugging in wells.	97	%Cft		
17	Ch:10 P-68 Item 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.	97	%Cft		
18	Ch:10 P-70 Item 22 (a)	1½"(40 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 1"(25 mm) thick floor of 1:2:4 cement concrete, including rubbing and polishing complete with finishing :- using white cement	109	%Sft		
19	Ch:10 P-72 Item 37 (ii)	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: using gray cement: ½" thick (13 mm)	32	%Sft		
20	Ch:10 P-69 Item 15 (c)	Providing and laying topping of cement concrete 1:2:4, including surface finishing and dividing in panels:- 1½" thick	272	%Sft		
21	Ch:10 P-72 Item 40 (a)	Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels Size 1½" x 3/8" (40 x 10 mm)	163	P.Rft		

Contractor

Executive Engineer

22	Ch:10 P-70 Item 24 (i)	Providing and laying superb quality Ceramic tile floors of Master brand of specified size, Glossy/ Matt/ Texture of approved Color and Shade as per approved design with adhesive bond, over 3/4" thick (1;2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge. i) 12"x18"/ 12"x24"/ 10"x24"/ 8"x24"/ 12"x36"	25	P.Sft		
23	Ch:10 P-70 Item 25 (i)	Providing and laying superb quality Ceramic tile Dado of Master brand of specified size, Glossy/ Matt/ Texture Skirting/ Dado of approved Color and Shade as per approved design with adhesive bond, over 1/2" thick (1;2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge. i) 12"x18"/ 12"x24"/ 10"x24"/ 8"x24"/ 12"x36"	128	P.Sft		
24	Ch:12 P-81 Item 7 (b)	Providing and fixing 1st class solid wood wrought joinery in panelled or panelled and glazed doors and windows of specified thickness with 1" thick solid wood panels with step and 1-1/2"x2-1/2" beadings all around the panels i/c the cost of Tower bolt and handles complete in all respect (Excluding the cost of sliding bolt,lock and chowkats (frame), etc.) as approved and directed by the Engineer Incharge Oak/Ash wood Door 1-1/2" thick (40 mm)	43	P.Sft		
25	Ch:12 P-83 Item 17 (iii)	Providing and fixing 2" wide MS/ GI Chowkat single/ double rebate made of 16 SWG MS sheet pressed/ welded/ supported with M.S. flat 1-1/4"x1/8" i/c 6" long M.S. Flat 1"x1/8" holdfasts (6-Nos) welded/ screwed, punching of lock hole covered with MS Box, coating with antirust paint including filling with cement sand mortar (1:8) and embedding holdfast in cement concrete (1:2:4), complete in all respect as approved and directed by Engineer Incharge. 5.5" wide	43	P.Sft		

Contractor

Executive Engineer

26	Ch:25 P-208 Item 52	Providing and fitting all types of glazed aluminium windows of anodised/ powder coated partly fixed and partly sliding using delux sections of approved manufacturer having frame size of 100 x 30 mm (4"x1-1/4") and leaf frame sections of 50 x 20 mm (2"x3/4"), all of 1.6mm thickness including 5 mm thick imported tinted glass with rubber gasket using approved standard latches, hardware etc., as approved by the Engineer in-charge.	48	P.Sft		
27	Ch:25 P-208 Item 53	Providing and fixing Aluminum Fly screen comprising of Fiber/ Aluminum wire guaze (Malasian) fixed in aluminum frame of approved manufacturer browns Colour/ powder coated of size 1½"x½" and 1.6 mm thick with rubber gasket i/c cost of Hardware as approved and directed by the engineer incharge complete in all respect.	24	P.Sft		
28	Ch:25 P-209 Item 59 (i)	Providing and fixing M.S. grill fabricated with MS Square polished Vertical/horizontal Bars of specified size @ 4" c/c ' passed through punched holes in MS Patti of 1-1/4"x1/8" i/c the cost of 1-1/4"x1/8" MS patti for Frame of windows and painting 3 coat complete in all respect as approved and directed by the Engineer Incharge. 3/8" Squar Bars	48	P.Sft		
29	Ch:9 P-61 Item 5 + Ch:26 P-214 Item 37 (ii)	Single layer of tiles 9" x 4 ½" x 1 ½" laid over 4" earth and 1" 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 included polythene sheet 500" gauge. (.005" thick)	130	%Sft		
30	Ch: 9 P-63 Item 15	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	1	Each		
31	Ch: 9 P-63 Item 20 (a)	Cast iron rain water down pipe fixed in position, excluding heads and shoes, but including painting and clamps, etc:- 4" dia (100 mm) cast iron down pipe.	12	P.Rft		

Contractor

Executive Engineer

32	Ch: 9 P-63 Item 21	Rain water down pipe cast iron head fixed in place, including cost of clamp holdfast and painting.	1	Each		
33	Ch: 9 P-63 Item 22	Shoes, bends or offsets for cast iron rain water down pipe, including fixing and painting.	1	Each		
34	Ch: 11 P-77 Item 23 (a) iii	Distempering:- new surface:- three coats	161	%Sft		
35	Ch: 13 P-96 Item 31 (a+b)	Preparing surface and painting with emulsion paint:- three coats on new surface	439	%Sft		
36	Ch: 13 P-97 Item 33A (a) (i+ii)	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:	875	%Sft		
37	N.S	Extra labour and mould and finishing of ornamental pillar 12"x12" including Base and top as per drawing and design	1	P.Job		
TOTAL						

Contractor

Executive Engineer

**EXTERNAL DEVELOPMENT WORKS FOR (800) BOYS JINNAH HOSTEL (BLOCK-B) AT AGRICULTURE
UNIVERSITY FAISALABAD.**

ELECTRIC INSTALLATION

Construction of Security Hut with Toilet.

Sr. No.	Description of Item of Work	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
1	Supply and erection of PVC pipe for wiring recessed in walls, including inspection boxes, pull boxes, hooks, cutting jharries, and repairing surface, etc., complete with all specials.				
	1" i/d for points				
	: 6+13*3 = 45Ft.	45			
	1" i/d for power wiring 16-ft	16			
	For Main Cable 200-ft	200			
	Total	261	Per Rft.		
	3/4" dia	30	Per Rft.		
2	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):-				
	a) 250/440 volts, PVC insulated:				
	i) 3/0.74 mm (3/0.029")				
	: = 100 ft	100	Per Rft.		
3	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 250/440 volts grade cable (BSS-2004), in prelaid PVC pipes/M.S. conduit/G.I. pipe/wooden strip batten/wooden casing and				

Contractor

Executive Engineer

	capping/trenches, etc. (rate for cable only):-				
	For Power Wiring :				
	iv) 7/0.91 mm (7/0.036")	40	Per Rft.		
4	Supply and erection of copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches, etc. (rate for cable only):-				
	a) PVC insulated, PVC sheathed twin core, 250/440 volts.				
	v) 7/1.12 mm (7/0.044")	200	Per Rft.		
5	S/E of M.S. sheet box of 16 SWG, 10 cm (4"), with 4.75 mm thick (3/16") Bakelite sheet top, for to recessed wiring, including making holes for regulators, switches, plugs, etc.				
	ii) (7"x4")	1	Each		
	ii) (4"x4")	2	Each		
6	Supply and erection of wall type/pole type bracket, with double cover water tight reflector, flexible wire and brass bolder.	1	Each		
7	Supply and erection of switches 5 Amp.				
	ii) piano type	6	Each		
8	Supply and erection of wall socket with 3 pin 5 Amp, shoe.	2	Each		
9	Supply and erection of 3 pin, 10/15 Amp. wall socket.				
	ii) recessed type	1	Each		
10	Supply and erection of energy saver bulbs 24 W	3	Each		
11	Ceiling Fans 56" sweep	1	Each		
12	Erection of ceiling fan alongwith regulator (all sizes), including carriage from local Railway Station/Store to site of work, electric wire/cable for suspension rod and board connection, and cutting, threading on the rod, where necessary.	1	Each		
13	S/E of exhaust fan 18" size iron body	1	Each		
	Total - Rs.				

Contractor

Executive Engineer

Contractor

Executive Engineer

**EXTERNAL DEVELOPMENT WORKS FOR (800) BOYS JINNAH HOSTEL (BLOCK-B) AT AGRICULTURE
UNIVERSITY FAISALABAD.**

PUBLIC HEALTH PORTION

Construction of Security Hut with Toilet (Hostels Gate).

ABSTRACT OF COST

S.N.		Description	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
-	-	-	-	-	-	-
1	Ch: 19 P-125 Item 3	Providing and fitting European Coupled set of Water Closet (WC) and flushing Cistern of PORTA brand (full size) i/c the cost of CP/ rubber connection, thimble, seat cover and rawal bolts complete in all respects as approved and directed by the Engineer Incharge.	1	Each		
2	Ch: 19 P-125 Item 7 (i)	Providing and fitting glazed earthen ware wash hand basin 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc. white, with pedestal	1	Each		
3	Ch: 19 P-128 Item 32 (i)	Providing and fitting, chromium plated or brass oxidised, swan neck cock 15 mm (½") dia single way.	1	Each		
4	Ch: 19 P-132 Item 52	Providing and fixing CP bath Room Set made of Sonex/ Master/ Faisal comprising of 3-No Tee stop cocks, lever type Basin Mixer, double Bib Cock, open wall shower, Muslim shower, waste coupling and bottle trap etc. complete in all respect as approved and directed by the Engineer incharge.				
	iii)	Double Bib Cock	1	Each		
	v)	Muslim shower	1	Each		
	iv)	Open Type Wall Shower	1	Each		

Contractor

Executive Engineer

5	Ch: 19 P-128 Item 28	Providing and fixing chromium plated tee stop cock 15mm (½").	2	Each		
6	Ch: 19 P-133 Item 1	Providing and fixing, chromium plated waste coupling:- 4 cm (1½")	1	Each		
7	Ch: 19 P-133 Item 3	Providing and fixing, waste pipe of PVC:- 4 cm (1½")	1	Each		
8	Ch: 19 P-128 Item 26	Providing and fixing underground stop cock 13 mm (½"), with chromium plated cover.	3	Each		
9	Ch: 19 P-129 Item 34 (ii)	Providing and fixing, floor trap of cast iron, including concrete chamber all round, and C.I. grating:- 10x7.5 cm (4"x3")	2	Each		
10	Ch: 23 P-153 Item 28 (c)	Providing, laying, cutting, jointing, testing and disinfecting pipe line in trenches with PVC/ uPVC pipes of B.S.S. with `D' Class working pressure complete in all respects:- 4" dia	12	P.Rft		
11	Ch: 23 P-159 Item 47 (b) (ii)	Providing, laying, testing and commissioning of POLY PROPYLENE RANDOM COPOL YMER (PPRC) water supply pipe made of (Dadex/ Popular/ Beta/ BBJ) with specified pressure rating PN (PRESSURE NOMINAL) and conforming to DIN 8077-8078 code i/c cost of solvent, specials, making jharries complete in all respect as approved and directed by Engineer Incharge.(Internal/External Diameters mentioned). PN-20 Pipe				
		3/4" dia (25mm)	30	P.Rft		

Contractor

Executive Engineer

	Ch: 23 P-159 Item 47 (b) (iii)	1" dia (32mm)	100	P.Rft		
12	Ch: 19 P-127 Item 23	Providing and fixing BATHROOM ACCESSORIES (7-piece set) MASTER BRAND - One Cosmetic Shelf, One Towel rod with bracket, One soap dish, One double hook, One towel ring, brush holder, toilet paper holder & looking glass i/c the cost of hardwares etc complete in all respect as approved and directed by the Engineer incharge.				
	i)	Plastic soap dish	1	Each		
	ii)	Plastic toilet paper holder	1	Each		
	iii)	Plastic tower rail	1	Each		
	iv)	Looking glass with plastic frame	1	Each		
13	Ch: 19 P-128 Item 31	Providing and fixing gun metal peet/gate valve (screwed):-				
	i)	30 mm (1¼") dia	1	Each		
14	Ch: 19 P-133 Item 7	Providing and fixing 1.5 cm (½") dia connection, including check nuts, etc.:-				
	i)	plastic rubber connection	2	Each		
15	Ch: 21 P-138 Item 7 (b)	Constructing gully grating chamber, 12"x12", (300x300 mm) complete in all respects: concrete Gully trap.	1	Each		

Contractor

Executive Engineer

16	Ch: 3 P-32 Item 42 (i)	Earthwork excavation in open cutting for sewers and manholes as shown in drawings including shuttering and timbering, dressing to correct section and dimensions according to templates and levels, and removing surface water, in all types of soil except shingle, gravel and rock:- 0 ft. to 7.0 ft. (0 to 2.10 m) depth	500	%oCft		
17	Ch: 21 P-136 Item 1 (i)	Providing and laying RCC pipe sewer moulded with cement concrete 1:1½:3, conforming to ASTM Specification C-76-79, Class II wall B, including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing with rubber ring, cutting pipe where necessary, testing, etc. complete 6" dia	100	P.Rft		
		TOTAL-A				
		<u>NON MRS ITEMS</u>				
1	NS	Providing and fixing stainless steel floor trap jali 6"x6" size openable heavy type.	1	Each		
2	NS	Providing and fixing heavy duty ball/ handle valve				
		3/4" dia	1	Each		
		1" dia	1	Each		
3		Construction of Manhole Chamber 2.5'x2.5'x3' clear size with 9" thick brick masonry wall in cement sand mortar ratio 1:4 with ½" thick cement plaster in ratio 1:3 with 6" thick RCC manhole cover in 6" thick RCC slab complete in all respect as approved by the Engineer Incharge.	3	P.Job		
		TOTAL-B				
TOTAL A+B						

Contractor

Executive Engineer

**EXTERNAL DEVELOPMENT WORKS FOR (800) BOYS JINNAH HOSTEL (BLOCK-B) AT AGRICULTURE
UNIVERSITY FAISALABAD.
FOUNDATION OF GATE PILLAR (3-NO.)**

S.N.	Ref:	Description	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
1	Ch: 3 P-30 Item 21 (a) ii	Excavation in foundation of building, bridges and other structure, i/ c dag belling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain and lift upto 5' in ordinary soil.	54	%Cft		
2	Ch: 6 P-41 Item 5 (i)	Cement concrete plain i/c placing, compacting ,finishing and curing complete including screening and washing of stone aggregate 1:4:8.	9	%Cft		
3	Ch: 6 P-42 Item 6 (a-iii) (3)	Reinforcement of cement concrete in slab of rafts/ strip foundation, base of column and retaining walls: etc and other structural members other than these mentioned in above not requiring from work (i. e horizontal shuttering) complete in all respect (1:2:4).	27	P.Cft		
4	Ch: 6 P-42 Item 6 (a-i) (3)	Reinforcement cement concrete in roof slab, beams, columns, linters, girders, and other structural members laid in site or pre cast laid in position or prestressed members cost in site, complete in all respect (1:2:4). Using course sand	20	P.Cft		
5	Ch: 6 P-45 Item 12-b	Fabrication of mild steel reinforcement for cement concrete i/ c cutting, bending, laying, in position, making joints and fastening i/ c cost of binding wire and labour charges for binding of steel reinforcement (Also i/c removal of rust from bars) deformed bars Grade-40	144	%Kg		
6	Ch: 11 P-76 Item 9 (b)	Cement plaster 1:4 upto 20' (6.00 m) height:- ½" (13 mm) thick	49	%Sft		
				TOTAL		

Contractor

Executive Engineer

**EXTERNAL DEVELOPMENT WORKS FOR (800) BOYS JINNAH HOSTEL (BLOCK-B) AT AGRICULTURE
UNIVERSITY FAISALABAD.**

WALK THROUGH GATE WITH PILLARS TO KISAN HALL

S.N.	Ref:	Description	Quantity	Rate (Rs.)	Rate Quoted by the Contractor	Amount (Rs.)
1	Ch: 3 P-30 Item 21 (a) ii	Excavation in foundation of building, bridges and other structure, i/ c dag belling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain and lift upto 5' in ordinary soil.	23	%Cft		
2	Ch: 6 P-41 Item 5 (i)	Cement concrete plain i/c placing, compacting ,finishing and curing complete including screening and washing of stone aggregate 1:4:8.	3	%Cft		
3	Ch: 7 P-54 Item 4 (i)	Pacca brick work in foundation & plinth in cement sand mortar (1:6).	10	%Cft		
4	Ch: 7 P-55 Item 7 (i)	Pacca brick work other than building upto 10ft. (3 m) height. Cement, sand mortar:- Ratio 1:4	27	%Cft		
5	Ch: 6 P-42 Item 6 (a-iii) (3)	Reinforcement of cement concrete in slab of rafts/ strip foundation, base of column and retaining walls: etc and other structural members other than these mentioned in above not requiring from work (i. e horizontal shuttering) complete in all respect (1:2:4).	17	P.Cft		
6	Ch: 6 P-45 Item 12-b	Fabrication of mild steel reinforcement for cement concrete i/ c cutting, bending, laying, in position, making joints and fastening i/ c cost of binding wire and labour charges for binding of steel reinforcement (Also i/c removal of rust from bars) deformed bars Grade-40	52	%Kg		

Contractor

Executive Engineer

7	Ch: 11 P-79 Item 18 (a)	Cement pointing struck joints, on walls, upto 20' (6.00 m) heightratio 1:2 with Red Oxide Pigment	96	%Sft		
8	Ch: 25 P-204 Item 30	Making and fixing steel grated doors, complete wit locking arrangement, angle iron frame 2"x2"x3/8 (50x50x10 mm) and 3/4" (20 mm) square bars 4" (100 mm) center to center	40	P.Sft		
9	Ch: 13 P-93 Item 5 (d)	Painting New Surfact: Preparing surface and painting guard bars, gates of iron bars, gratings, railing (including standards, braces, etc.) & in similar open work:- 3-coats	40	%Sft		
10	Ch: 4 P-36 Item 32 (b)	Removing windows and sky lights with chowkat.	1	Each		
11	Ch: 4 P-34 Item 13	Dismantling brick work in lime or cement mortar.	8	%Cft		
12	Ch: 11 P-76 Item 9 (b)	Cement plaster 1:4 upto 20' (6.00 m) height:- 1/2" (13 mm) thick	22	%Sft		
		TOTAL				

Contractor

Executive Engineer

**EXTERNAL DEVELOPMENT WORKS FOR (800) BOYS JINNAH HOSTEL (BLOCK-B) AT AGRICULTURE
UNIVERSITY FAISALABAD.**

**Construction of 2' Span 28' Feet Wide Culverts at Junctions and Road Crossing for Surface Drain
Rate for One Culverts**

S.N .	Description	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs)
A	MATERIAL				
1	Excavation in foundation of building, bridges and other structure, i/ c dag belling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain and lift upto 5' (in ordinary) soil.				
	Flooring	1	28	8.25	1.75
					404
2	Cement concrete brick or stone ballast 1 ½" to 2" gauge in foundation and plinth (1:4:8).				
		1	28	8.25	0.75
					173
3	Pacca brick work in foundation & plinth in cement sand mortar (1:6).				
	Abutments	2	28	2.62 5	0.5
					74
	- do -	2	28	2.25	0.5
					63
	- do -	2	28	1.87 5	0.75
					79
	- do -	2	28	1.5	0.5
					42
	Wing Walls	4	1.5	2.62 5	0.5
					8
	- do -	4	1.5	2.25	0.5
					7

Contractor

Executive Engineer

	- do -	4	1.5	1.87 5	0.75	8			
	- do -	4	1.5	1.5	0.5	5			
						286.00	%Cft		
4	Brick on edge flooring, laid in 1:6 cement mortar, over a bed of ¾" (20 mm) thick cement mortar 1:6.								
		1	28	2		56	%Sft		
5	Cement concrete plain i/c placing, compacting ,finishing and curing complete including screening and washing of stone aggregate 1:2:4.								
	Bed Plates	2	28	1.5	0.75	63	%Sft		
6	Reinforced cement concrete in roof slab, beams, columns, lintels, girders, and other structural members laid in site or pre cast laid in position or prestressed members cost in site, complete in all respect (1:2:4).								
	Slab	1	28	5	0.75	105			
	Edge Parapet	2	5	1	1	10			
						115	P.Cft		
7	Fabrication of mild steel reinforcement for cement concrete i/ c cutting, bending, laying, in position, making joints and fastening i/ c cost of binding wire and labour charges for binding of steel reinforcement (Also i/c removal of rust from bars). G-60								
		115	6.7 5	0.45 4		352	%Kg		

Contractor

Executive Engineer

8	Cement plaster 1:4 upto 20' (6.00 m) height:- ½" (13 mm) thick								
	Edge Parapet Sides (2x2)	4	5		1	20			
	Top (2x1)	2	5		1	10			
	Side End (2x1)	2	5		0.75	8			
	PCC End (2x2)	4	1.5		0.75	5			
						43	%Sft		
9	Rehandling of earthwork: Lead upto a single throw of Kassi, phaorah or shovel								
	Back Side Abutments Upto NSL	2	28	0.5	0.5	14			
	- do -	2	28	0.87 5	0.5	25			
	Above NSL	2	28	1.25	0.75	53			
	- do -	2	28	1.62 5	1.75	159			
						251	%oCft		
	Cost of One No. Culverts (At Road C)						TOTAL		
	Cost of One No. Culverts (At Road D)								
	Total Rs.								

Contractor

Executive Engineer

**EXTERNAL DEVELOPMENT WORKS FOR (800) BOYS JINNAH HOSTEL (BLOCK-B) AT AGRICULTURE
UNIVERSITY FAISALABAD.**

**Construction of 2' Span 34' Feet Wide Culverts at Junctions and Road Crossing for Surface Drain
Rate for One Culverts**

S.N.	Description					Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs)
A	MATERIAL								
1	Excavation in foundation of building, bridges and other structure, i/ c dag belling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain and lift upto 5' (in ordinary) soil.								
	Flooring	1	34	8.25	1.75	491	%oCft		
2	Cement concrete brick or stone ballast 1 ½" to 2" gauge in foundation and plinth (1:4:8).								
		1	34	8.25	0.75	210	%Cft		
3	Pacca brick work in foundation & plinth in cement sand mortar (1:6).								
	Abutments	2	34	2.625	0.5	89			
	- do -	2	34	2.25	0.5	77			
	- do -	2	34	1.875	0.75	96			
	- do -	2	34	1.5	0.5	51			
	Wing Walls	4	1.5	2.625	0.5	8			
	- do -	4	1.5	2.25	0.5	7			
	- do -	4	1.5	1.875	0.75	8			
	- do -	4	1.5	1.5	0.5	5			

Contractor

Executive Engineer

						341.00	%Cft		
4	Brick on edge flooring, laid in 1:6 cement mortar, over a bed of ¾" (20 mm) thick cement mortar 1:6.								
		1	34	2		68	%Sft		
5	Cement concrete plain i/c placing, compacting ,finishing and curing complete including screening and washing of stone aggregate 1:2:4.								
	Bed Plates	2	34	1.5	0.75	77	%Sft		
6	Reinforced cement concrete in roof slab, beams, columns, linters, girders, and other structural members laid in site or pre cast laid in position or prestressed members cost in site, complete in all respect (1:2:4).								
	Slab	1	34	5	0.75	128			
	Edge Parapet	2	5	1	1	10			
						138	P.Cft		
7	Fabrication of mild steel reinforcement for cement concrete i/ c cutting, bending, laying, in position, making joints and fastening i/ c cost of binding wire and labour charges for binding of steel reinforcement (Also i/c removal of rust from bars). G-60								
		138	6.75	0.454		423	%Kg		
8	Cement plaster 1:4 upto 20' (6.00 m) height:- ½" (13 mm) thick								
	Edge Parapet Sides (2x2)	4	5		1	20			
	Top (2x1)	2	5		1	10			

Contractor

Executive Engineer

	Side End (2x1)	2	5		0.75	8			
	PCC End (2x2)	4	1.5		0.75	5			
						43	%Sft		
9	Rehandling of earthwork: Lead upto a single throw of Kassi, phaorah or shovel								
	Back Side Abutments Upto NSL	2	34	0.5	0.5	17			
	- do -	2	34	0.875	0.5	30			
	Above NSL	2	34	1.25	0.75	64			
	- do -	2	34	1.625	1.75	193			
						304	%oCft		
	Cost of One No. Culverts (At Road C)				TOTAL				

Contractor

Executive Engineer

**EXTERNAL DEVELOPMENT WORKS FOR (800) BOYS JINNAH HOSTEL (BLOCK-B) AT AGRICULTURE
UNIVERSITY FAISALABAD.**

**Construction of Balance Boundary wall with RCC Pillars & Plinth Beam
ABSTRACT OF COST**

S.N.	Ch # Item#	Description	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
-	-	-	-	-	-	-
1	Ch: 3 P-30 Item 21 (a) ii	Excavation in foundation of building, bridges and other structure, i/ c dag belling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain and lift upto 5' (in ordinary) soil.	474	%oCft		
2	Ch: 6 P-42 Item 5 (i)	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1: 4: 8.	29	%Cft		
3	Ch: 6 P-41 Item 3 (d)	Cement concrete brick or stone ballast 1½" to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- Ratio 1:6:12	60	%Cft		
4	Ch: 6 P-43 Item 6 (a) (iii) 3	Reinforcement of cement concrete in slab of rafts/ strip foundation, base of column and retaining walls: etc and other structural members other than these mentioned in above not requiring from work (i. e horizontal shuttering) complete in all respect (1:2:4).	88	P.Cft		
5	Ch: 6 P-42 Item 6 (a) (i) 3	Reinforced cement concrete in roof slab, beams, columns, lintels, girders, and other structural members laid in site or pre cast laid in position or prestressed members cost in site, complete in all respect (1:2:4).	228	P.Cft		
6	Ch: 6 P-45 Item 11 (b)	Fabrication of mild steel reinforcement for cement concrete i/ c cutting, bending, laying, in position, making joints and fastening i/ c cost of binding wire and labour charges for binding of steel reinforcement (Also i/c removal of rust from bars). Grade-40	1219	%Kg		
7	Ch: 7 P-54 Item 4 (i)	Pacca brick work in foundation & plinth in cement sand mortar (1:6).	473	%Cft		

Contractor

Executive Engineer

8	Ch: 7 P-55 Item 7 (i)	Pacca brick work other than building upto 10ft. (3 m) height. Cement, sand mortar:- Ratio 1:5	441	%Cft		
9	Ch: 6 P-42 Item 5 (f)	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1: 2: 4	28	%Cft		
10	Ch: 11 P-78 Item 9 (b)	Cement Plaster 1:4 upto 20' (6.00 m) height ½" (13 mm) thick	1229	%Sft		
11	Ch: 11 P-79 Item 18 (a)	Cement pointing struck joints, on walls, upto 20' (6.00 m) height ratio 1:2 with Red Oxide Pigment	588	%Sft		
		TOTAL				

Contractor

Executive Engineer

**EXTERNAL DEVELOPMENT WORKS FOR (800) BOYS JINNAH HOSTEL (BLOCK-B) AT AGRICULTURE
UNIVERSITY FAISALABAD.
EXTERNAL SEWERAGE & MANHOLES**

S.N.	Ch # Item#	Description	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
1	Ch: 3 P-32 Item 42 (i)	Earthwork excavation in open cutting for sewers and manholes as shown in drawings including shuttering and timbering, dressing to correct section and dimensions according to templates and levels, and removing surface water, in all types of soil except shingle, gravel and rock:- 0 ft. to 7.0 ft. (0 to 2.10 m) depth	18297	%oCft		
2	Ch: 6 P-41 Item 5 (i)	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1: 4: 8	289	%Cft		
3	Ch: 7 P-53 Item 7 (i)	Pacca brick work other than building upto 10ft. (3 m) height. Cement, sand mortar:- Ratio 1:4	954	%Cft		
4	Ch: 6 P-41 Item 5 (f)	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1: 2: 4	74	%Cft		
5	Ch: 21 P-138 Item 9	Extra for making and finishing benching floor work in manhole chamber, with 1/8" (3 mm) thick cement finish.	295	%Sft		
6	Ch: 11 P-76 Item 9 (b)	Cement Plaster 1:4 upto 20' (6.00 m) height ½" (13 mm) thick	2545	%Sft		

Contractor

Executive Engineer

7	Ch: 6 P-41 Item 2	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.	5378	%Cft		
8	Ch: 21 P-136 Item 3 (iii)	Providing and laying R.C.C. pipe sewers, moulded with cement concrete 1:1½:3 conforming to ASTM Specification C-76-20, Class II. Wall B, including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing with rubber ring, cutting pipes where necessary, testing, etc., complete. 460 mm (18") i/d	606	P.Rft		
9	Ch: 21 P-139 Item 16	Providing and fixing 6" thick R.C.C. manhole cover with tee shaped C.I. frame of 22" I/d (frame weighing 37.324 Kg. or one maund as per Standard Drawing STD/PD No. 6, of 1977, complete in all respect.	15	P.Set		
10	Ch: 21 P-139 Item 16	Rehandling of earthwork: Lead upto a single throw of Kassi, phaorah or shovel	9149	%oCft		
11	Ch: 6 P-42 Item 6 (a)	Reinforcement of cement concrete in slab of rafts/ strip foundation, base of column and retaining walls: etc and other structural members other than these mentioned in above not requiring from work (i. e horizontal shuttering) complete in all respect (1:2:4).	62	P.Cft		
12	Ch: 6 P-45 Item 12- b	Fabrication of mild steel reinforcement for cement concrete i/ c cutting, bending, laying, in position, making joints and fastening i/ c cost of binding wire and labour charges for binding of steel reinforcement (Also i/c removal of rust from bars). Grade-40	190	%Kg		
13		Dismantling/ demolishing of existing structure and disposal/ collecting tank and disposed of melba out of university premises.	1	P.Job		

Contractor

Executive Engineer

					TOTAL	
		Credit of Old Material collected from dismantling.				
TOTAL						

Contractor

Executive Engineer

**EXTERNAL DEVELOPMENT WORKS FOR (800) BOYS JINNAH HOSTEL (BLOCK-B) AT AGRICULTURE
UNIVERSITY FAISALABAD.
POWEWR TRANSFORMER**

S.N.	Description	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
1	Transformer Supply, installation, commissioning and testing of oil cooled type, Step down Power Transformer of specified rating, 11/0.415 kV, i/c the cost of lifting hooks, thermometers, LT & HT bushing 5-steps, tap changer, imported double float buchholz relay, 2 earthing terminals, roller wheels, connecting terminals for cables M.S box on transformer in order to cover complete L.T side, all necessary materials required for connections on H.T & L.T side, rated voltage 11000/415/240 V impedance 6.25% or as specified by WAPDA/IEC system earth: Delta / Star, neutral solidly earthed, i/c Wapda testing charges, complete in all respects made of PEL, Siemens, as approved and directed by the Engineer Incharge 630 KVA (For boys hostel & External)	1	Each		
	Total				

Contractor

Executive Engineer

**EXTERNAL DEVELOPMENT WORKS FOR (800) BOYS JINNAH HOSTEL (BLOCK-B) AT AGRICULTURE
UNIVERSITY FAISALABAD.
HT & LT POLES**

S.N.	Description	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
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1	Supply and erection of street light pole bracket 30 mm (1¼") G.I. pipe 2 metre long, complete with 2 No. pole clamp.	38	Each		
2	Manufacture and erection of galvanized angle iron lattice steel structure pole 37 ft.(11.25m) long (9 m) above ground level), 34" square (850 mm) at base, 13.75" (35 mm) square at foot (300 mm) of reduction or top, for electric distribution line, using 2"x2"x5/32" addition in the height of the pole (50x50x4mm) high tensile steel angle iron legs, and 1-3/8"x above ground level. 1-3/8"x1/8" (35x35x3 mm) M.S. angle iron bracings fixed between legs on all the four sides in diagonal position as per standard drawing including silver painting of pole, excavation and refilling of foundation, one ft. (300 mm) thick cement concrete 1:3:6 foundation of outer size 8'x3½'x3½' (2400x1050x1050 mm), etc. complete in all respects.	1	Each		

Contractor

Executive Engineer

3	Supplying, installation testing and commissioning of Octagonal shape electric street light pole, made of hot dipped 4.5 mm thick (7 SWG) galvanized steel, tapered from 225 mm at bottom to 100 mm at top, with 1500 mm x 60 mm x 4mm thick dia. arm for luminaire installation, duly G.I.welded with 470 x 470 x 20 mm base plate with the help of 4 no triangular stiffeners 100x350x20 mm of GI sheet, with built in junction box with shutter, i/c the cost of nuts & J-rag bolts, duly fixed in prelaaid concrete foundation, foundation will be paid additionally as approved and directed by the Engineer In charge				
	Single Arm	30	Each		
	Double Arm	3	Each		

4	HT POLE SHIFTING Shifting of existing HT pole at new location including silver painting of pole, excavation and refilling of foundation, one ft. (300 mm) thick cement concrete 1:3:6 foundation of outer size 8'x3½'x3½' (2400x1050x1050 mm), etc. complete in all respects.	4	Each		
5	HT POLE ACCESSORIES FOR TRANSFORMERS END Supplying, installation testing and commissioning HT /LT pole accessories like Lightning Arresters, Pin Insulator, wood & Steel cross Arms, Dropout cutout assembly, fuses, GNAT conductor, D-shackle Spool Insulator. Earthing rods all necessary materials & accessories, to done the job. as per WAPDA STANDARDS, complete in all respects.	1	Each		

Contractor

Executive Engineer

6	HT CABLE /Conductor Supply, installation and commissioning of Al conductor cable manufactured by Pakistan cable/ Newage cable/ Fast cable any one of the manufacturers as specified in Annexure “B” to be laid in prepared trenches / in pre-laid conduits including cost of connections and conforming to general specification. Actual length of cables shall be measured at site and paid accordingly; contractor shall be confirmed actual length before placing the order. Approximately length as follows: AnT Conductor for Lighting	3920	P.Rft		
	Total				

Contractor

Executive Engineer

**EXTERNAL DEVELOPMENT WORKS FOR (800) BOYS JINNAH HOSTEL (BLOCK-B) AT AGRICULTURE
UNIVERSITY FAISALABAD.
FITTING FIXTURES**

S.N.	Description	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
1	Supplying, installation and commissioning of LED Cobra-head Luminaries of specified wattage and lumens conforming to IP 66 & IK 08 or above Philips/Osram/Thorn or equivalent with corrosion resistant die casted Aluminum housing, silicon gasket in special groove, UV stable & scratch resistant synthetic materials, thermally hardened glass complete with LED Chip (Philips Lumiled/Cree/Nichia/ Osram make or equivalent), programmable LED driver (Harvard/TCI/ Lumotech/ Philips/ VOSSLOH Schwabe/Lightech make or equivalent), minimum 10kV surge protection rating i/c the cost of all accessories/ components required for proper operation, fully flexible for future upgradation and easy replacements for maintenance purposes, bucket elevator charges as approved and directed by the Engineer Incharge. 120 Lm/Watt 90Watts with 10800 Lumens	68	Each		
	Total				

Contractor

Executive Engineer

**EXTERNAL DEVELOPMENT WORKS FOR (800) BOYS JINNAH HOSTEL (BLOCK-B) AT AGRICULTURE
UNIVERSITY FAISALABAD.
CABLES & CONDUITS**

S.N.	Description	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
1	Supply and erection of PVC pipe for wiring recessed in walls including inspection boxes, pull boxes, hooks, cutting jharries, and repairing surface, etc., complete with all specials. 50 mm i/d	4800	P.Rft		
2	Supply and erection of copper conductor cables for service connection, in pre-laid pipe/G.I. wire/trenches, etc. (rate for cable only):- PVC insulated, PVC sheathed twin core 250/440 volt From Pole Terminal to Light 7/0.74 mm (7/0.029")	1320	P.Rft		
3	Supply and erection of copper conductor cables for service connection, in pre-laid pipe/G.I. wire/trenches, etc. (rate for cable only):- PVC insulated, PVC sheathed 3 core, 660/1100 volt non armoured cable:- 7/ 1.63mm (7/0.064")	5000	P.Rft		
4	HT CABLE /Conductor Supply, installation and commissioning of Al conductor cable manufactured by Pakistan cable/ Newage cable/ Fast cable any one of the manufacturers as specified in Annexure "B" to be laid in prepared trenches / in pre-laid conduits including cost of connections and conforming to general specification. Actual length of cables shall be measured at site and paid accordingly; contractor shall be confirmed actual length before placing the	3920	P.Rft		

Contractor

Executive Engineer

	order. Approximately length as follows:				
	AnT Conductor for Lighting				
	Total				

Contractor

Executive Engineer

**EXTERNAL DEVELOPMENT WORKS FOR (800) BOYS JINNAH HOSTEL (BLOCK-B) AT AGRICULTURE
UNIVERSITY FAISALABAD.
PANELS & DISTRIBUTION BOXES**

S.N.	Description	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
1	<p>P/F wall mounted DB (Distribution Board) made with 16 SWG Sheet (Recessed/ Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights, Thimble, Copper Comb, Wiring, Neutral & Earth Bar, Door Earthing, Digital Voltmeter, Digital Ammeter, Volt Selector Switch, Ammeter selector switch, Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).</p> <p>DB TO BE INSTALLED WITH TRANSFOMER PLAT FORM 6" deep 20~60A (18" x 22" x 6")</p>	1.5	P.Cft		
2	<p>Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/ SIEMEN/ ABB SWITZERLAND (with fixed Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge.</p> <p>Tripple Pole 15-100 Amp (7.5 KA)</p>	1	Each		

Contractor

Executive Engineer

3	Supplying, Installation and commissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMANY/ TERASAKI JAPAN/ ABB SWITZERLAND in pre-laid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. Single Pole 6-40 Amp (6 KA)	12	Each		
4	Supply, installation and commissioning of Solar Cell, Magnetic Contactors 63A 3pole, both material to be installed in above mentioned DB.	1	P.Set		
	Total				

Contractor

Executive Engineer

**EXTERNAL DEVELOPMENT WORKS FOR (800) BOYS JINNAH HOSTEL (BLOCK-B) AT AGRICULTURE
UNIVERSITY FAISALABAD.
EARTHING SYSTEM**

S.N.	Description	Quantity	Unit	Rate Quoted by the Contractor	Amount (Rs.)
1	PVC INSULATED CABLE Bonding to earth with wire on surface, including cost of wire, clamps, thimbles, GI wire 8SWG	330	P.Rft		
2	Supply, installation and connections of earthing electrode 10ft long 16mm dia Mild steel, galvanized including cost of nuts, bolts, washers, earth rod clamp (PG) shall be directly driven in ground, and connected with 10mm Stranded aluminum conductor all necessary accessories, complete in all respects. 10 Meter Pole	33	Each		
	Total				

Contractor

Executive Engineer