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

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. Construction of Stage D-Ground at University of Agriculture, Faisalabad** **2. Construction of Toilet Block and First Floor Class Room at Lab. College Building (Boys) at Main Campus at University of Agriculture, Faisalabad**
2	Estimated cost	**Rs. 41,388,759/-, 19,395,472/-**
3	Time for completion	**05-Months, 04-Months**
4	Amount of Bid Security	PKR---------- Million (s)
5	Issued to	----------
6	Pre-tender conference	----------
7	Dead Line for submission of Tender	17-04-2023 up to 11:00AM------
8	Opening of Tender	17-04-2023 up to 11:30AM----------
9	Issued by	Executive Engineer, University of Agriculture, Faisalabad.

Signature:----------

Date:----------

OFFICE STAMP

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

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, **1st Bi-Annual 2023 District Faisalabad),** contract documents, including bill of quantities, estimated scheduled rates and any other documents required in connection with the preparation of tender or execution of works, signed by the engineer-in-charge will accompany the tender form and the cost of such annexed documents will be reflected in the cost of the tender form.

3. The tenderer will not be reimbursed for any costs of any kind, whatsoever, incurred in connection with the preparation and submission of his tender.

4. No single tender shall include more than one work. A tenderer who wishes to tender for two or more works shall submit tender for each work, separately.

5. The memorandum of work tendered for, and the schedule of materials and equipment to be supplied by the engineer-in-charge and the rates at which they are to be charged for (annexed hereto) shall be filled in the office of the engineer-in-charge before the tender form is issued. At this stage the tenderer should ensure that the tender form so issued is complete in all respects.

6. The tenderer shall note that the ultimate responsibility for the quality of work and its conformity with the specifications and drawings rests solely with the successful bidder whose tender is accepted.

7. The tenderer shall, at his own expense, inspect and examine the site and surroundings and obtain for himself, on his own responsibility, all information that may be necessary for preparing the tender and entering into contract, and shall determine and satisfy himself by such means as he may consider necessary or desirable as to all matters pertaining to the tender. The tenderer shall also satisfy himself before submitting his tender as to the nature of grounds, hydrological and climatic conditions, the form and nature of the site, the nature and lay out of the terrain, the availability of labour, water, electric power and transportation facilities in the area. The tenderer shall specially investigate into the sources of materials to be used for the works and satisfy himself about the quality and quantities of materials available for the completion of the work and the means of access to the site, the accommodation he may require and, in general, shall himself obtain all necessary information, as to the risks, contingencies and other circumstances which may influence or affect his tender. The engineer-in-charge shall not assume any responsibility regarding information gathered interpretation or deduction, which the tenderer may arrive at, from the date that may be furnished with the contract documents.

8. (a) The tenderer shall fill up the Bill of Quantities and indicate the percentage rate above or below the MRS of rates for the "MRS items" on which he is willing to undertake each item of work. No premium will be quoted by the contractor against non-MRS/item rates, for which the rate and amount has already been filled in by the engineer-in-charge in the bid schedule.

(b) In case tenders are called on item rate basis, the tenderer shall quote his own unit rate in the Bill of quantities on which he is willing to undertake each item of work.

9. i. The tender shall work out the amount against each item of work in the Bill of Quantities and

will indicate the total amount of his tender (including the cost of Non-MRS items rates for which the rate and amount has already been filled in by the engineer-in-charge in the Bill of Quantities) on which he is willing to complete the works. The total amount worked out in the Bill of Quantities shall be entered by the tenderer in his tender as his tender price for the work. In case of discrepancy between amounts in figures and in words, the amount in words shall prevail.

ii. Should any discrepancy be found in the amount of pay items or if a column of amount is found blank after filling in a unit rate, the unit rate filled by the tenderer will be extended in working out of the amount of the tender and the total amount of the bid schedule will be adjusted accordingly.

iii. If a unit rate is left blank, but the amount against the item is filled, the unit rate will be worked out on the basis of the amount divided by the quantity of the item shown in the bid schedule.

iv. If it is found that the tenderer has not entered any unit rate and amount against any of the pay items of the bid schedule, the engineer-in-charge shall fill in the blanks by noting the word "NIL" In such blanks at the time of opening of the tender. Such pay items shall be deemed to be covered by the rates of other items.

v. If the tenderer does not accept the adjusted/corrected amount of tender according to the above provision, his tender shall be rejected and the earnest money forfeited.

10. The tender which proposes any alteration in the works specified in the Bill of quantities or in the time allowed for carrying out the works or any other condition mentioned by the Engineer-in-charge, will be liable to rejection. The tenderer shall sign each and every page of the tender and contract documents, without making any alteration. All enclosures issued with the contract documents, shall be attached with the tender duly signed by the tenderer. Any addition or alteration made after filing the forms shall duly attested by the tenderer. Non-compliance of this condition shall render the tender liable to rejection.

11. The tenderer shall fill in the tender documents, in ink. Errors, if any, shall be scored out, and corrections re-written legibly and attested by the tenderer. Any addition or alteration made after filling the form shall be duly attested by the tenderer. Non-compliance of this condition shall render the tender liable to rejection. Any tender with unattested correction shall be attested by the tenderer in the presence of other tenderers at the time of opening of the tender except that no correction shall be permissible in the rate or amount of the bid schedule or in the tendered price after the opening of the tender.

12. Additional Clause (s) for a particular work shall be typed on separate sheet(s) by the Engineer-in-charge, which will be annexed to the contract documents specifying the number of sheets. The tenderer shall not add or delete any additional clause(s) in the additional clauses sheet (s), provided by the Engineer-in-charge.

13. The quantities mentioned in the Bill of Quantities are estimated quantities, to be used for preparing tenders, and the Engineer-in-charge does not expressly nor by implication agree that the actual amount of works to be performed will correspond therewith. No payment will be made on account of anticipated profits for work covered by the contract which is not performed, nor will any adjustment in the unit rates set forth in the bid schedule be made because of an increase or decrease in the actual quantities from the estimated quantities indicated therein, except as determined in accordance with the provisions of Clause 42 of the general conditions of contract.

14. No tender without earnest money shall be entertained, earnest money, calculated @ 2% of the estimated cost of the work (rounded suitably), shall be in the form of 'deposit at call receipt'. The earnest money of the unsuccessful tenderers shall normally be returned by the Engineer-in-charge within a week of opening of the tenders and in any case not later than sixty (60) days following the date set for opening of tenders. In the event of the tender being accepted, or receipt for the earnest money forwarded therewith, shall thereupon be given to the contractor. The earnest money of the successful tenderer on execution of the contract covering work will be adjusted towards the amount of security deposit to be retained from the first amount (s) payable to the contractor under the contract.

15. The successful tenderer will be required to enter into a contract, furnish the performance security (where-ever required) and to commence the work within the time specified in the memorandum of work. Should the successful tenderer refuse or fail for any reason to enter into contract, or to furnish the performance security or to commence the work within the time specified in the memorandum of work, it should constitute a just cause for the annulment of the award and in the event of such annulment, the entire earnest money shall be forfeited to Government, as compensation for such default.

16. (i) The tender shall be signed by the person (s) duly authorized to do so. In the event of the tender being submitted by a firm, it shall be signed separately by each member thereof, or in the event of the absence of any partner, it shall be signed on his behalf by a person holding a power of attorney authorizing him to do so. Such power of attorney should be produced with the tender and it must disclose that the firm is duly registered under the Partnership Act, 1932, or any other law in force.
    (ii) The tender submitted by a joint venture of two or more firms shall be accompanied by a document of formation of the joint venture, duly registered and authenticated by competent court, in which shall be stated precisely, the conditions under which it shall function, its period of validity, the person (s) authorized to represent it and accept it obligate, the participation of several firms forming the joint venture and any other information of necessary to permit a full appraisal of its function.
    (iii) A tender submitted by a corporation must bear the seal of the corporation and be attested by its Secretary.
    (iv) In all cases, the tender must be signed by an individual or individuals having powers to legally bind the firm, joint venture, corporation or companies on whose behalf they are signing.

17. Each tenderer shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his tender and of the rates and prices stated in the bid schedule which rates and prices shall, except in so far as it is otherwise expressly provided in the contract, cover all obligations under the contract and all matters and things necessary for the proper completion and maintenance of the works.

18. The tenderer may modify or withdraw his tender after submission, provided that the modification or notice of withdrawal is received in writing by the engineer-m-charge prior to the prescribed deadline for submission of tenders. The tenderer's modification or notice of withdrawal shall be prepared, sealed, marked and delivered, with the inner envelopes additionally marked "MODIFICATION or WITHDRAWAL as appropriate .No tender may be modified subsequent to the deadline for submission of tender. Withdrawal of a tender during the interval between the deadline for submission of

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

19. The tenderer shall submit the original Tender Documents complete in all respects and keep a copy of the tender for his own record. The original should be sealed in an inner ant an outer envelope, duly marking the envelops as "ORIGINAL". The inner and outer envelops 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 envelops 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 contact, may-result in the rejection of his tender.

26. To assist in the examination, evaluation and comparison of tenders, the Engineer-in-

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

26 In case the total tendered amount is less than 5% of the approved Estimated (DNIT) amount, the lowest bidder will have to deposit Quality Assuarance Security from the Scheduled Bank equal to the amount of difference between approved DNIT amount and the quoted bid amount as given below, within 15 days of issuance of the notice or within expiry period of bid, whichever is earlier.

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

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

32. The completion period will be reckoned from the date of delivering the award or the handing over of the site to the contractor, whichever is later.

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

Contractor **Executive Engineer**

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.....Bank .....Branch .....)drawn in your favour or may payable to you as earnest money, the full value of which will be absolutely forfeited to Government,, without prejudice to any other rights or remedies of the said *Government*, should I/We withdraw or modify' the tender within its validity period of sixty (60) days, following the date of receipt of tender.

3.I/We understand that if my/our tender is accepted, the foil value of the earnest money as attached with the tender shall be detained by *University* towards the amount of security deposit specified in clause 48 of the said conditions of contract and item (d) of the Memorandum of work.

4. Should this tender be accepted by you, I/We hereby undertake:-

   (a) To sign ail the necessary documents for entering into a contract agreement in the form set out In the contract document within fifteen (15) days following your notification of such acceptance.

   (b) To commence the work within the stipulated time named in item (f) of memorandum hereto annexed following the date of issuance of your order to proceed with or the handing over of the site, whichever is later and in the event of my/our failure to do so, the entire amount of earnest money deposited by me/us for which deposit at a call receipt is enclosed herewith, is to be absolutely forfeited to the University.. On the commencement of work, I/We hereby also agree to abide by and fulfill all the terms or provisions of the said conditions of the contract annexed hereto so far as applicable and in default thereof, to forfeit and pay to the University the sums of money mentioned in the said conditions.

   (c) To complete and deliver the whole work comprised in the contract within the time stipulated in item no. (g) Of the Memorandum hereto annexed, subject to such extension in the time limit as may be granted under the conditions of contract.

   (d) the furnishing of performance security under item (h) of the memorandum annexed hereto, in the sum equal to 10 (ten) percent of the cost of the work in same form sum equal to 10 (ten) percent of the cost of the work in the same form and on the same condition as are prescribed by and to the satisfaction of the Engineer-in-charge.

5. I/We also agree that when materials and/or equipment for the work are provided by the t, the rates to be paid for them shall be as provided in Appendices annexed hereto.

Contractor **Executive Engineer**

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 this …….Day

Of ……..…….20…

NAME…….....

*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 Descrisption	**1. Construction of Stage D-Ground at University of Agriculture, Faisalabad** **2. Construction of Toilet Block and First Floor Class Room at Lab. College Building (Boys) at Main Campus at University of Agriculture, Faisalabad**
b)	Estimated bid Cost	**RS. 41,388,759/-, 19,395,472/-**
c)	Amount of bid security to accompany the tender (to be furnished by the tenderer in the shape of "deposit at call" from a scheduled Bank of Pakistan)	**Rs. 827,775/-,387,909/-**
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.

Contractor **Executive Engineer**

SUMMARY OF COST

CONSTRUCTION OF STAGE D-GROUND AT UNIVERSITY OF AGRICULTURE, FAISALABAD

A	**Civil Work**	
	Standardized Items	
	Non Standardized Items	
B	**Water Supply & Sewerage**	
	Standardized Items	
C	**Electrification**	
	Standardized Items	
	Non Standardized Items	
	Total	
	Add 5% PRA	
	Grand Total	

RUPEES IN WORDS:-_____

Contractor **Executive Engineer**

CONSTRUCTION OF STAGE D-GROUND AT UNIVERSITY OF AGRICULTURE, FAISALABAD
D.N.I.T

Sr.#	Description	Total Quantity	Unit	Rate (Rs.)	Amount (Rs.)
	Building Civil Works				
1	Excavation in foundation of building, bridges and other structure, including dagbelling, dressing, refilling, around the structure with excavated earth, watering and ramming lead up to one chain (30m) and lift up to 5 ft (1.5m).In ordinary soil. **MRS FSD 2023 (Chapter 3, Item 21 (b), P.30)**	34,274.07	1000 Cft		
2	Spraying termite proofing by using liquid FMC/ Biflex/ Terminex Exin/ Ms Hextar or equivalent @ specified suspension concenterate (SC), Mixing Ability-HEXTAR with Ratio (1:250) = 540 Sft or 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. (**MRS FSD 2023 (Chapter 26, Item 43, P.214)**	7,436.00	P.Sft		
3	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- (1:4:8) **MRS FSD 2023 (Chapter 6, Item 3 (b), P.41)**	1,677.08	% Cft		
4	Filling watering and ramming earth under floor. i) With surplus earth from foundation. **MRS FSD 2023 (Chapter 3, Item 15, P.29)**	16,137.06	1000 Cft		
5	Filling watering and ramming earth under floor. ii) With new earth excavated from out side lead upto one chain (30m) **MRS FSD2023 (Chapter 3, Item 15, P.29)**	1,000.00	1000 Cft		
6	Pacca brick work in foundation and plinth in cement sand mortar 1:5 **MRS FSD 2023 (Chapter 7, Item 4, P.52)**	261.38	% Cft		
7	Pacca brick work 1:5 c/s mortar in super structure (Ground Floor) **MRS FSD2023 (Chapter 7, Item 5, P.53)**	3,975.08	% Cft		
8	i) ---do--- in 1st Floor. **MRS FSD2023 (Chapter 7, Item 6, P.53)**	1,650.00	% Cft		

Contractor **Executive Engineer**

10	Perforated pacca brick walling one brick thick, in ground Floor (1:3) **MRS FSD 2023 (Chapter 7, Item 18, P.55)**	621.25	% Sft		
11	Providing and laying reinforced cement concrete (including prestressed concrete) using Ordinary portland Cement/ Sulphate resisting Cement / Slag Cement As may be, Required 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)(ii) Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and other structural members other than those mentioned in 6(a) (i) above not requiring form work (i.e. horizontal shuttering) complete in all respects:-- Type C (nominal mix 1: 2: 4) **MRS FSD 2023 (Chapter 6, Item 6, P.42)**	3,773.40	P.Cft		
A	Providing and laying reinforced cement concrete (including prestressed concrete), using Ordinary portland Cement/ Sulphate resisting Cement / Slag Cement As may be Required coarse 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:- (3) Type B (nominal mix 1: 1.5: 3) **MRS FSD 2023 (Chapter 6, Item 6, P.42)**	8,392.37	P.Cft		
A	---do--- in 1st Floor. (Extra Labor) **MRS FSD 2023 (Chapter 6, Item 6 (d), P.42)**	1,546.00	P.Cft		

Contractor **Executive Engineer**

12	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labor charges for binding of steel reinforcement (also includes removal of rust from bars):- (c) Deformed bars (Grade-60) **MRS FSD 2023 (Chapter 6, Item 12, P.45)**	35,570.99	% Kg		
13	Supplying and filling of sand under floors or plugging in wells. **MRS FSD 2022-23 (Chapter 7, Item 30, P.57)**	878.82	% Cft		
14	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. **MRS FSD 2022-23 (Chapter 10, Item 3, P.68)**	2,782.30	% Cft		
15	Cement concrete plain i/c placing compacting finishing and curing complete (i/c screening and washing of stone aggregate) (f) Ratio 1:2:4. **MRS FSD 2022-23 (Chapter 6, Item 5, P.41)**	1,433.31	% Cft		
16	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. (b) Ratio 1:3 **MRS FSD 2023 (Chapter 11, Item 10, P.76)**	1,000.00	% Sft		
17	Cement sand plaster ratio (1:4) 3/4" thick on wall upto 20' height. **MRS FSD 2023 (Chapter 11, Item 9c, P.76)**	13,011.61	% Sft		
18	Providing and laying 4-1/2" thick fair face Special brick Cladding (9"x4-1/2"x3") laid in (1:3) cement / red posso mortar having 1/4" thick groovefinish i/c thecost of 8 SWG wirein shape of 8 placed horizontally and vertically at 36" and 18" c/c respectively i/c cutting charges as per approved drawing, complete in all respect as approved and directed by the Engineer Incharge **(MRS FSD 2023 (Chapter 7, Item 39, P.57)**	6,754.50	Per Sft		

Contractor **Executive Engineer**

19	Providing and laying Conglomerate flooring (two coat work) with top layer of ½"(13mm) thick wearing surface, one part of cement and 2 parts of stone chips passing 3/16"(6 mm) sieve, over bottom layer of cement concrete 1:3:6, including surface finishing and dividing in panels:- (2" thick) **MRS FSD 2023 (Chapter 10, Item 16, P.69)**	540.00	% Sft		
20	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) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36" (**MRS FSD 2023 (Chapter 10, Item 24, P.70)**	448.89	Per Sft		
21	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(ii) 600mmx 600 mm. **(Full Body Glazed Tile)** **(MRS FSD 2023 (Chapter 10, Item 42, P.73)**	8,431.21	Per Sft		
22	Providing and laying superb quality Porcelain glazed 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 **(ii) 600mmx 600 mm. (MRS FSD 2023 (Chapter 10, Item 43, P.73)**	387.02	Per Sft		

Contractor **Executive Engineer**

23	Providing and laying 3/4" thick full width Prepolished Marble slab for Vanities / Shelves / Treads/Window Cills , having Uniform texture (Spotless) with adhesive bond over 3/4" thick (1:2) cement sand mortor i/c the cost of matching sealer complete in all respects as approved and directed by the Engineer Incharge.) **(MRS FSD 2023 (Chapter 10, Item 47, P.74)**				
	China Verona	2,292.43	Per Sft		
24	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 **(MRS FSD 2023 (Chapter 10, Item 49, P.74)**	2.00	Each		
25	Providing and fixing 2" wide MS/ GI Chowkat singel/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 antirust 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 **(MRS FSD 2023 (Chapter 12, Item 17, P.83)**				
	(ii) 10.50 " wide	140.00	P.Sft		
	iii) 5.5 " wide	231.00	P.Sft		
26	Providing and laying 24 SWG aluminum kick plate 4" high, fixed with screws 4" (100 mm) centre to centre, on bottom rail of flush doors only of commercial ply **(MRS FSD 2023 (Chapter 12, Item 53, P.88)**	10.00	Per Rft.		
27	Providing and fixing auotomatic hydraulic operated door closer imported heavy duty complete in all respect as approved and directed by the Engineer Incharge. **(MRS FSD 2023 (Chapter 12, Item 67, P.91)**	2.00	Each		

Contractor **Executive Engineer**

28	Providing and fixing 24" Deep Box type Wardrobe consisting of 3/4" thick UV coated MDF board(Medium density Fiber board) Sheet both side glazed shutters and box comprising of 3/4" thick laminated MDF sheet i/c thecost of 1mm thick PVC tapeduly hot pressed on all edgesof theshutters/ panels/ drawersetc., withmachinei/c thecost of self closing box type hinges, handles, screws, Glue and rawal plugs, Drawers & locking arrangement complete in all respect as approved and directed by Engineer Incharge **MRS FSD 2023 (Chapter 12, Item 63, P.90)**	50.00	P.sft		
29	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 **MRS FSD 2023 (Chapter 12, Item 7, P.81)**				
	a) Deodar wood Door				
	(i) 2" thick (50 mm)	294.00	P.Sft		
30	Providing and fixing Imported Mortise Lever Handle Lock with backplate (Machine,Cylinders,Lever Handles (Pair) and backplate(Pair))of approved quality,design & finish ,including the cost of all accessories to complete the job as show non drawing and as per specification ,complete in all respect, as approved and directed by the Engineer Incharge. **MRS FSD 2023 (Chapter 12, Item 69, P.91)**	13	Each		
31	P/F Iron door comprising of specified leaves made of 1-1/4"x1-1/4"x3/16" MS angle iron for leaf frame, diagonal and horizontal braces duly welded with MS. sheet 18-SWG i/c the cost of sliding bolt, tower bolt and painting 3-coats but excluding the cost of Chowkat complete in all respect as approved and directed by the Engineer incharge **MRS FSD 2023 (Chapter 25, Item 62, P.210)**				
I	Single Leaf	21.00	P.Sft		
II	Double Lea	56.00	P.Sft		

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32	Providing and laying roof insulation, comprising of single layer of tiles 9"x4½"x1½" (225x113x40 mm) grouted with cement sand mortar 1:3 laid over 2" (50 mm) thick earth (including mud plaster) over thermopore sheet, over polythene sheet 300 gauge over a layer of bitumen, complete in all respects: (**MRS FSD 2023 (Chapter 9, Item 35, P.64)**				
	iii) Thermopore sheet 1" (25 mm) thick	2,200.00	% Sft		
33	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm) **MRS FSD 2023 (Chapter 9, Item 15, P.63)**	5.00	Each		
34	Providing and fixing ornamental wooden architrave 3"x(1-1/2" tapered to 1/4") all along the door frame complete in all respect. (b) Deodar wood architrave. **MRS FSD 2023 (Chapter 12, Item 58, P.89)**	124.50	P.Sft		
35	Providing and fixing all types of partly fixed and partly openable glazed anodised Powder Coated aluminium doors, using delux section (2mm thick) 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 Incharge. **MRS FSD 2023 (Chapter 25, Item 51, P.208)**	21.00	P.Sft		
36	Providing and fitting all types of glazed aluminium windows of anodised/ powder coated partly fixedand partly sliding using delux sections of approved manufacturer section thickness is 1.2 mm. having frame size of 100 x 30 mm (4"x1-1/4") and leaf frame sections of 50 x 20 mm (2"x¾"), all of 1.6mm Thickness including 5mm imported tinted Glass with rubber gasket using approved standerd latches,hardware etc., as approved by the Engineer in-charge **(MRS FSD 2023 (Chapter 25, Item 52, P.208)**	527.00	P.Sft		

Contractor **Executive Engineer**

37	Providing and fixing aluminium glazed partition of anodized / powder coated using section of M/s. Al-Cop/ Pakistan Cable having 2 mm thick Frame size D48-A , i/c 12 mm tinted TEMPERED glass with sand blasting and edge polishing i/c the cost of tear resistance film,rubber gasket and hardware etc. complete in all respect as approved and directed by the Engineer Incharge.(Floor hinge will be paid sapratly) **.(MRS FSD 2023 (Chapter 25, Item 57, P.209)**	30.00	P.Sft		
38	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" x 1" at wall sides, galvanized tee 1¼" x 1"and 1 ½" x 1" 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 **(MRS FSD 2022-23 (Chapter 9 Item 48, P.66)**				
	iv) 12 mm thick	5,013.71	P.Sft		
39	P/L false ceiling comprising of 5/8" thick plaster of paris sheet of required size in approved design with one line of 6" wide niche all around , hanging with Copper wire (16 SWG) duly enriched with POPand flaxen i/c thecost of making space for rope light /screws/jute/making holes for lights and rawal plugs complete in all respects as approved and directed by the Incharge.(Measurement will be made as per carpet Area) **(MRS FSD 2023 (Chapter 9 Item 49, P.67)**	200.00	P.Sft		
40	Preparing surface and painting with emulsion paint **MRS FSD 2023 (Chapter 13, Item 31, P.96)**				
a	1st Coat	13,011.61	% Sft		
b	2nd and Each subsequent Coat	13,011.61	% Sft		
41	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:- a) new surface **MRS FSD 2023 (Chapter 13, Item 33, P.97)**				

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a	1st Coat	600.00	% Sft		
b	2nd Coat	300.00	% Sft		
	Providing and laying Tuff pavers ,having 7000PSI ,crushing strength of approved manufacturer ,over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope . complete in all respect (50% Grey / 50% Coloured) **.MRS FSD 2023 (Chapter 10, Item 41, P.72)**				
b)	60mm Thick	200	Per Sft		
				TOTAL AMOUNT (Rs.) =	

Contractor **Executive Engineer**

NOTE: For Rate Analysis of NS Items; Input Material & Labor Rates of Faisalabad (2023) have been used.					
Sr.#	**Description**	**Total Quantity**	**Unit**	**Rate (Rs.)**	**Amount (Rs.)**
	Building Civil Works				
1	Clearing and grubbing of building area, dressing, compaction upto required modified AASHTO dry density and removal of trees, shrubs, roots etc. Including dismantling of existing one-storey structure old store room near the proposed building at the site. Including stacking or disposing off the surplus material out side the Project limit as per instructions of the Engineer Incharge. This includes all related civil works to be involved in demolishing.	1.00	Job		
2	Providing and fixing 2" diameter S.S pipe hand rail fixed to wall, complete in all respects as per specifications, as shown on drawings and as directed by the Engineer.	80.00	P.Rft		
3	Providing and fixing of 2" dia S.S stair railing with 1-1/2" dia S.S. vertical posts including SS brackets and bolts, including all fixing arrangements complete in all respects as per specifications, as details shown on drawings and as directed by the Engineer.	274.00	P.Rft		
4	Frosting of the glass of windows in bathrooms with sandblasting and making it completely obscure, with approved pattern and design, complete in all respects as per directions of the Engineer Incharge.	50.00	P.Sft		
				TOTAL AMOUNT (Rs.) =	

Contractor **Executive Engineer**

Sr.#	Description	Unit	Total Quantity	Rate (Rs.)	Amount (Rs.)
	PUBLIC HEALTH WORKS				
1	Providing, fixing, testing and commissioning of µ-PVC (Unplasticized Polyvinyl Chloride) Nikasi/ waste pipe make of Dadex /Popular/Beta or equivalent, plain /socket ended conforming to code EN-1329 of specified SDR (Standard Dimension Ratio) including the cost of specials and Solvents complete in all respect as approved and directed by the EngineerIncharge **.MRS 2023 (Chapter 19, Item 47, P.130)**				
	b) **Type (SDR 32.5/SN-8)**				
	(iii)2"(60 mm)	Per Rft	50.00		
	(iv)3"(85 mm)	Per Rft	100.00		
	(v)4"(110 mm)	Per Rft	200.00		
	(vi)6"(160 mm)	Per Rft	50.00		
	(vii)8"(200 mm)	Per Rft	30.00		
2	Providing, fixing, testing and commissioning of µ-PVC (Unplasticized polyvinyl Chloride) Nikasi/ waste pipe Fittings make of Dadex /Popular/Beta or equivalent, conforming to code EN-1329 including the cost of Solvents complete in all respect as approved and directed by the Engineer Incharge **MRS 2023 (Chapter 19, Item 49a, P.131)**				
	a) **P-Trap**				
	(i) 4" dia	Each	4.00		
	(ii) 3" dia	Each	2.00		
	b) **Multi-Trap**				
	(i) 4" dia	Each	1.00		
	(ii) 3" dia	Each	1.00		
	c) **Vent Cowel**				
	(i) 4" dia	Each	1.00		
	(ii) 3" dia	Each	1.00		

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	(iii) 2" dia	Each	1.00		
	d) **Clean Out**				
	(i) 4" dia	Each	2.00		
	(ii) 3" dia	Each	2.00		
3	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 .**MRS 2023 (Chapter 19 Item 52, P.132)**				
	(i) 3 No Tee Stop Cock (set)	Each	8.00		
	(ii) Lever Type Basin Mixer	Each	2.00		
	(iii) Double Bib Cock	Each	2.00		
	(v) Muslim shower	Each	2.00		
	(vi) Waste Coupling	Each	2.00		
	(vii) Bottle Trap	Each	2.00		
4	Providing, laying, testing and commissioning of POLYPROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe (**Dadex /Popular/ Beta or equivalent**) with specified pressure rating PN (PRESSURE NOMINAL) and conforming to DIN 8077-8078 code i/c cost of solvent, specials,making jharries complete in all respect as approved and directed by Engineer Incharge.(Internal/External Diameters mentioned) **.MRS 2023 (Chapter 23, Item 47, P.159)**				
	b) **PN-20 pipe**				
	(ii)(3/4") 25 mm	Per Rft	120.00		
	(iii)(1") 32 mm	Per Rft	100.00		
	(iv) (1-1/4") 40 mm	Per Rft	50.00		
	(vi)(2") 63 mm	Per Rft	40.00		
6	Providing and fixing gun metal peet/gate valve (screwed) **MRS 2023 (Chapter19, Item 31, P.128)**				
	ii) 40 mm(1½") dia	Each	1.00		
	iv) 65 mm(2½") dia	Each	1.00		

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8	Providing and fitting 10cm (4") gully trap, including cement concrete , cost of pvc grating 15x15cm (6"x6") and masonry chamber 30x30cm (12"x12"). **MRS 2023 (Chapter 19, Item 36, P.129)**	Each	2.00		
10	Providing and fitting glazed earthen ware wash hand basin /vanity 56 x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc. **MRS 2023 (Chapter 19, Item 7, P.125)**				
	i) white, with pedestal	Each	1.00		
	v) Under Counter Vanity Basin	Each	1.00		
11	Providing and fitting one piece Europeon Coupled set of Water Closet(WC) and flushing Cistern of PORTA brand (full size) i/c the cost of CP/rubber connection, thimble, normal seat cover andrawal boltscomplete in all respects as approved and directed by the Engineer Incharge **MRS 2023 (Chapter 19, Item 3, P.125)**	Each	2.00		
12	Providing and fitting glazed earthen ware water closet,squatter type (Orisa pattern), combined with foot rest. **MRS 2023 (Chapter 19, Item 4, P.125**)				
	i) White	Each	2.00		
13	Providing and fixing glazed earthen ware flat back urinal. **MRS 2023 (Chapter 19, Item 11, P.126)**	Each	1.00		
14	Providing and fixing, chromium plated soap dish**.** **MRS 2023 (Chapter 19, Item 16, P.126)**	Each	2.00		
15	Providing and fixingchromium plated toilet paper holder. **MRS 2023 (Chapter 19, Item 18, P.127), .**	Each	4.00		
16	Providing and fixing, chromium plated towel rail: **-MRS 2023 (Chapter 19, Item 19, P.127), .**				
	i) 60 cm (24") long, and 2 cm (¾") dia.	Each	2.00		
17	Providing and fixing looking glass 55x40 cm (22"x16") size, and 5 mm thick, first quality. **MRS 2023 (Chapter 19, Item 20, P.127)**	Each	2.00		

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18	Providing and fixing chromium plated bib cock: **-MRS 2023 (Chapter 19, Item 27, P.128)**				
	i) 2 cm (¾")	Each	1.00		
	ii) 1.5 cm (½")	Each	1.00		
19	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 thermostate,G.I. accessories, safety valve and making connection with existing water supply pipelinecompletein all respectsas approved and directed by the Engineer Incharge. **MRS 2023 (Chapter 19, Item 53, P.132)**				
	(i) 50 Gallons	Each	1.00		
				Total Amount (Rs.) =	

Contractor **Executive Engineer**

ELECTRICAL WORKS					
COST ESTIMATE					
A.	***SCHEDULE ITEMS***				
Sr. No.	**Description**	**Qty**	**Unit**	**Rate**	**Amount**
3/24	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.				
ii)	20mm i/d.	690	Meter		
iii)	25mm i/d.	780	Meter		
v)	40mm i/d.	10	Meter		
vi)	50mm i/d.	12	Meter		
6/24	Supply and erection PVC pipe for recessed wiring (main and sub-main) purpose, including bends, specials, etc, in floor, wall or trenches.				
i)	50mm i/d.	210	Meter		
10/24	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I. pipe/wooden strip batten/wooden casing an capping/G.I.wire/trenches (rate for cables only):-				
a)	250/440 volts, PVC insulated.				
i)	3/0.74mm (3/0.029").	2030	Meter		
iii)	7/0.74mm (7/0.029").	610	Meter		
iv)	7/0.91mm (7/0.036").	1380	Meter		
v)	7/1.12mm (7/0.044").	275	Meter		
c)	450/750 volts, PVC insulated.				
vi)	10mm (7/0.052").	165	Meter		
vii)	16mm (7/0.064").	30	Meter		
13/24 (b)	PVC insulated, PVC sheathed 3 core 600/1000 volt cable:-				
iv)	7/0.91mm (7/0.036").	10	Meter		

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13/24 (c)	PVC insulated, PVC sheathed 4 core, 600/1000 volt non armoured cable:-				
vi)	10mm (7/0.052").	165	Meter		
vii)	16mm (7/0.064").	10	Meter		
ix)	35mm (19/0.064").	80	Meter		
14/24	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)	10x10 cm (4"x4")	125	Each		
ii)	17.5 x 10 cm (7"x4")	3	Each		
49/24	Supply and erection of 3/8" (10 mm) dia M.S. bar fan hook, placed at the time of casting of slab.	10	Job		
90/24	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.**				
i)	20-60A.	12	P.Cft		
b)	**12" deep.**				
i)	125-150A.	14	P.Cft		
91/24	P/F floor mounted Electric Panel board of required depth and size, fabricarted with 14SWG M.S sheet (Indoor/Outdoor Type),derusting, zinc Phosphated, finish with electro static powder coating in approved colour i/c the cost of Lock, Indication lights, Brass glands, Netural & Earth bar, Digital volt meter/ Amp meter, Slector switchs, Current Transformers, Controles, Channels, Copper bus bars of specified capacity, Door Earthing, complete in all respects as approved and directed by the Engineer				
	Incharge (Breakers will be Paid Separately).				

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i)	**LT Switchboards**				
	a) 2.50 Ft deep				
i)	250~600A	35	P. Cft		
86/24	Suppling,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 screwes,necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
a)	**Single Pole**				
ii)	6-40 Amp (6KA)	80	Each		
b)	**Double Pole**				
ii)	6-40 Amp (6KA)	2	Each		
87/24	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**				
ii)	15-100Amp (10KA, 15KA)	12	Each		
iv)	125-250Amp (18KA)	2	Each		
94/24	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.				
(i)	Selector Switch.	7	Each		
(ii)	Current Transformer Coil (Make: Metelx/Fico).	3	Each		
(iii)	Digital Voltmeter (0-600 Volt).	7	Each		
(iv)	Digital Ammeter (0-9999 Amp).	1	Each		
(v)	LED Phase Indicator.	22	Each		

Contractor **Executive Engineer**

(viii)	Control MCB S/P 6A (Make: Schneider/Terasaki/ABB).	22	Each		
(ix)	Surge Suppressors.	1	Each		
103/24	P/F PVC double layer Switch kit Face plate 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.	10	Each		
ii)	02 Gange.	4	Each		
iii)	03 Gange	4	Each		
iv)	Three pin light plug 10/13Amp.	72	Each		
vi)	Fan dimmer.	10	Each		
viii)	Three pin power plug 15-32Amp.	18	Each		
v)	Telephone/TV/data cable socket.	1	Each		
	Large				
i)	04 Gange.	2	Each		
iii)	06 Gange.	1	Each		
b)	**Two way Gange Switch**				
	Small				
i)	01 Gange one way/two way.	6	Each		
102/24	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.				
a)	**Plastic body.**				
ii)	12" dia	2	Each		

Contractor **Executive Engineer**

106/24	Supply, Installation and commissioning of wiring with 4-pair data Cable, 23 AWG UL/EN listed cable * Conforming to following standards: TIA/EIA 568 / ISO/IEC 11801, in prelaid conduit / cable tray from including all accessories, Manufacturer/OEM Authorization, Make: Schneider / i-connect UK/3M Corning USA/ D-Link/ Pollo Australian or equivalent complete				
	in all respect as approved and directed by Engineer Incharge.				
a)	**UTP (Unshielded Twisted pair)**				
i)	CAT-6 (Min.1G @ 250MHz or higher).	285	Per Meter		
131/24	Supply, Installation and commissioning of Simple type, Dual Shutter Face Plates having fully populated I/O:				
	Option 1:RJ-11 with RJ45/8P8C I/Os supporting either Cat6 or Cat6a cables as required by project.				
	Option 2: Two RJ45/8P8C I/Os supporting either Cat6 or Cat6a cables as required by project.				
i)	Single I/O.	2	Each		
114/24	Supply and installation of Cable Metal Organizer, 19" Rack mounted with high graded epoxy powder coating and slideable top-UL Listed. Made of Schneider/i-Connect UK/3M Corning: Pollo Australia or equivalent as approved and directed by the Engineer Incharge.	1	Each		
115/24	Supply, Installation and commissioning of 19" Rack Mounted of specified, UTP Patch Panel with specified toolless support & Rear Cable Management, UL listed, Loaded with UTP of specified Keystone Jack Toolless Support , Made of Schneider / Norden /3M Corning/D-Link, Pollo Australia or equivalent or as Approved and Directed by Engineer Incharge.				
i)	CAT-6 (24 Port Patch Panel with Toolless Support 1-Gigabit).	1	Each		

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111/24	Supply, Installation and Connection of Specified Ports Layer-2 PoE (Power Over Ethernet) data Network Switch specified ports x100 Mbps PoE, Min.2x1Gbps SFP UPLINK ports, made of Cisco USA/NOVAS Europe/Juniper USA / Huawei / H3C, Pollo Australia or equivalent as approved and directed by the Engineer Incharge.				
i)	8 port, Min. 120 Watt PoE power.	1	Each		
129/24	Supply , Installation of wall mounted CCTV Cabinet comprising of Powder Coated M.S frame, front glass & two side openings, 02 way fans for cooling, top & bottom entry, handle lock with 6 way PDU (Power Distribution Unit) with all necessary accessories/ materials, complete in all respects. Made of Bosch/ HP / Dell , Pollo Australia or equivalent or as approved and directed by Engineer Incharge.				
i)	12U size (600x550x635mm)	1	Each		
109/24	Supply, Installation and commissioning of Cat-6, UTP Machine Made Patch Cord of Specified Length, Support 10 Giga, UL listed cable, with anti snag boots, Gold Over Nickel Plated, Manufacturer/OEM Authorization, confirming to manufacturer warranty, Made of Schneider / i-Connect UK /Panduit USA/D- Link/3M, Corning ,Pollo Australian or equivalent Approved and Directed by Engineer Incharge.				
i)	1 meter Patch Cord.	6	Each		
ii)	3 Meter Patch Cord.	2	Each		
122/24	Supply, installation & connecting IP based Camera of specified resolution, 1/3" Progressive scan, fixed lens 2.8 mm AF, Max resolution 2592 x 1920mm, 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, Pollo Australia or equivalent, as approved as directed by the Engineer Incharge.				

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(a)	**2 Mega Pixel**				
i)	Fixed Bullet Type.	6	Each		
116/24	Supply & Installation of NVR (Network Video Recorder) for Real Time View of specified Channels, video and Audio channels,Supported protocoles: ONVIF,RTSP etc, Internal HDDs mount support:2/4/8 or higher as per site requirement,Monitor outputs,(HDMI,4K Ultra HD),VGA (Video Graphic array), Support Raid 5/6, Embeded OS, Data Encryption, Min. 1 x RJ-45 1000Mbps Ports, with PC Video Monitoring Software, Web Server, Embedded Server complete in all respect. made of AXIS Europe/NOVAS Europe/Avigilon by Motrola USA /Huawei, Pollo Australia or equivalent as approved and directed by the Engineer Incharge.				
i)	8-Channel.	1	Each		
117/24	Supply, Installation and Connection of Surveillance Grade Hard Drives (HDD) of Specified Capacity for CCTV System Backup. made of Seagate / WD, Pollo Australia or equivalent, as approved and directed by Engineer Incharge.				
i)	4 TB (Tera Bite).	1	Each		
				Total Rs:-	

Contractor **Executive Engineer**

ELECTRICAL WORKS					
B.	**NON SCHEDULE ITEMS**	-	-	-	-
Sr. No.	**Description**	**Qty**	**Unit**	**Rate**	**Amount**
1.0	***WEATHERPROOF COVER***				
1.01	Supply & Installation of weatherproof cover for socket.	8	Each		
	SUB TOTAL SECTION (1.0)				
2.0	***CABLE CATCH PIT (CCP)***				
2.01	Supply and Construction of following size internal size **cable catch pits (CCP)** including earth work 4" thick P.C.C 9" thick first class burnt brick work, in 1:5 cement sand mortar plaster inside in 1:5 cement sand, and 4" thick P.C.C slab with 12" dia C.I. manhole cover to **BS 497** double rubber seal material conforming to **BS 1452** grade 150 including 4" dia perforated PVC pipe of 4 meter length vertically installed after making a bore hole under manhole, complete in all respects as per details shown in drawing.				
i)	2'x2'x3'.	6	Each		
	SUB TOTAL SECTION (2.0)				
3.0	***LIGHTING FIXTURES AND FANS***				
3.01	Supply and Installation of LED/SMD light fittings**.The light fitting Make of NVC/ Sunlight/Get Technology/Envirogreen** or approved equivalent. All the light fixture have the efficacy of 100 lumens/Watt & have 3 yrs of standard replacment warranty. The power factor of the light fitting should >0.9 & have <15% THD. The color shifting of the LED Source should not be greater than 5 SDCM for indoor light. The driver should be Meanwell or approved equivalent and LED should be atleast 100 lumens/Watt.				
i)	Surface mounted 4 feet long SMD light (18Watt).	2	Each		
ii)	Surface mounted 25Watt SMD downlighter.	12	Each		
iii)	Surface mounted 18Watt SMD downlighter.	24	Each		

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iv)	Surface mounted 4 feet long SMD light (36Watt).	20	Each		
v)	Surface mounted 2 feet long SMD light (9Watt).	2	Each		
vi)	Surface mounted 12Watt SMD down lighter.	26	Each		
vii)	Decorative wall bracket light with 12Watt SMD lamp.	2	Each		
viii)	Decorative weatherproof wall bracket light IP-65 with 12Watt SMD lamp.	4	Each		
3.02	Supply and Installation of LED flood light (100Watt).	6	Each		
3.03	Supply and Installation of LED exit light (3Watt) (wall/ceiling surface type) with exit pictogram with 3 hour battery back-up.	2	Each		
3.04	Supply and Installation of LED emergency light (3Watt) (wall/ceiling surface type) with 3 hour battery back-up.	18	Each		
3.05	Supply and Installation of LED emergency beam light (2x12Watt) wall mounted with 3 hours battery backup.	2	Each		
3.06	Supply and Installation of 18" sweep wall bracket fan copper winding **make GFC/PAK/ROYAL FAN**, complete in all respects, as per specification.	1	Each		
3.07	Supply & Installation of ceiling fan 56" sweep copper winding DELUXE model make **ROYAL FAN/PAK FAN/GFC FAN,** including hanging rod as required as per site condition, complete in all respect.	10	Each		
	SUB TOTAL SECTION (3.0)				
4.0	***FIRE ALARM SYSTEM***				
4.01	Supply, Wiring and Connecting up of fire alarm system smoke detector/heat detector and manual call point wired with fire resistant cable 2 core1.5mm2 fire resistant silicon rubber insulated, aluminum tape screen over copper drain wire, thermoplastic low smoke, halogen free sheath cable (class PH30/PH120) coloured red make NOROEN (UK)/2M KABLO/PRYSMIAN (UK)/RAMCRO (ITALY) from FACP to device and				

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	device to				
	device laid in prelaid PVC pipe, complete in all respects as per drawings and specifications.	255	Meter		
4.02	Supply, Wiring and Connecting up of sounder wired 2 core1.5mm2 fire resistant silicon rubber insulated, aluminum tape screen over copper drain wire, thermoplastic low smoke, halogen free sheath cable (class PH30/PH120) coloured red **make NOROEN (UK)/2M KABLO/PRYSMIAN (UK)/RAMCRO (ITALY)** from FACP to sounder laid in prelaid PVC pipe, complete in all respects as per drawings and specifications.	55	Meter		
4.03	Supply and Installation of 2 zone fire alarm control panel having indication, control & supervision of each detector & sounder circuit, key switch for general alarm, complete with battery and charger. **make MENVIER/Honeywell/Zeta** or approved equivalent, complete in all respect.	1	Each		
4.04	Supply and Installation of smoke detector with base **make MENVIER/Honeywell/Zeta** or approved equivalent complete in all respects as per specifications & drawings.	16	Each		
4.05	Supply and Installation of manual call point with back box make **MENVIER/Honeywell/Zeta** or approved equivalent, complete in all respects as per specifications & drawings.	6	Each		
4.06	Supply and Installation of sounder with flasher **make MENVIER/Honeywell/Zeta** or approved equivalent, complete in all respects as per specifications & drawings.	6	Each		
4.07	Testing and Commissioning for Fire Alarm System.	1	Job		
	SUB TOTAL SECTION (4.0)				
	IP CCTV SYSTEM				
5.01	Supply, Installation, Testing and Commissioning of 24 inch LCD **make LG/SONY/SAMSUNG** including cost of all				
	necessary accessories, complete in all respects.	1	Each		

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5.02	Supply and Laying of **HDMI cable** with both end jacks (5 meter).	1	Job		
	SUB TOTAL SECTION (5.0)				
6.0	***EARTHING SYSTEM***				
6.01	Supply and Installation of 1½" dia & 10 ft long 16-SWG tin plated copper pipe filled with primary earth chemical to be lowered in **30 feet** deep 4" dia bore hole, complete with clamps from bottom and top of pipe rod to ground surface earth connecting point the pipe & bore hole to be filled with secondary **earth chemical model GEM-25A of ERICO, complete with 1x16mm2 stranded copper conductor** from earth pipe to ground surface in 1½" dia PVC pipe with breather hole (length 5 feet only) with watering cap, earth access hole comprising of 12"x12" and 12" deep 16-SWG M.S. cylinder with 12-SWG M.S. cover, both hot dipped galvanized including copper test link size 4"x2"x½" installed on insulator with brass nuts bolts, as per detail shown in drawings.				
i)	Transformer neutral.	1	Each		
ii)	Transformer body & main switch.	1	Each		
iii)	MPB-Stage.	2	Each		
	SUB TOTAL SECTION (6.0)				

Contractor **Executive Engineer**

SUMMARY OF COST

CONSTRUCTION OF TOILET BLOCK AND FIRST FLOOR CLASS ROOM AT LAB. COLLEGE BUILDING (BOYS) AT MAIN CAMPUS AT UNIVERSITY OF AGRICULTURE, FAISALABAD

1	**Civil Work**	
2	**Public Health**	
3	**Electrical**	
	Total	
	Add 5% PRA	
	Grand Total	

RUPEES IN WORDS:-_____

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CONSTRUCTION OF TOILET BLOCK AND FIRST FLOOR CLASS ROOM AT LAB. COLLEGE BUILDING (BOYS) AT MAIN CAMPUS UAF.
CIVIL WORK
(D.N.I.T)

Abstract of Cost.

Sr. No.	Ref. No.	Description.	Unit.	Quantity	Rate	Amount (Rs.)
1	ch.3/21	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m).b) in ordinary soil.	1000 Cft.	2998.50		
2	ch.26/43	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.	Per Sft	2046.00		
3	ch.6/3ii	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- (b) Ratio 1: 4: 8	100 Cft.	354.36		
4	ch.6/6	Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and other structural members other than those mentioned in 5(a) (i) above not requiring form work (i.e. horizental shuttering) complete in all respects:-(3) Type C (nominal mix 1: 2: 4)	Per Cft	144.00		
5	ch.7/4	Pacca brick work in foundation and plinth- (i) cement, sand mortar:- Ratio 1:6	100 Cft.	1942.34		
6	ch.6/36ii	Providing and laying damp proof course of cement concrete 1:2: 4(using cement, sand and shingle), including bitumen coating :- (b) with 2 coats of bitumen 2" thick (50 mm)	100 Sft	158.63		

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7	ch.7/5	Pacca brick work in ground floor:- i) cement, sand mortar:- Ratio 1:5	100 Cft.	973.50		
8	ch.7/5+6	Pacca brick work in (1:5) First floor:-	100 Cft.	3320.63		
9	ch.7/5+6	Pacca brick work in (1:5) 2nd floor:-	100 Cft.	532.50		
10	ch.6/6	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:- (c) Type C (nominal mix 1: 2: 4)	Per Cft	1173.44		
11	ch.4/22a	Dismantling 1st class tile roofing.	100 Sft.	14616.00		
12	ch.4/13	Dismantling brick work in lime or cement mortar.	100 cft	335.25		
13	ch.6/6	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:- (c) Type C (nominal mix 1: 2: 4) first floor	Per Cft	1528.74		
14	ch.6/11	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):- (b) Deformed bars (Grade-60)	100 kg	10000.00		
15	ch.9/5,26/37	Single layer of tiles 9"x4½"x1½" (225x113x40 mm) laid over 4"(100 mm) earth and 1" (25 mm) mud plaster without Bhoosa, grouted with cement sand 1:3 on top of RCC roof slab, provided with 34 lbs. per %Sft. or 1.72 Kg/Sq.m bitumen coating sand blinded. i/c Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc. ii) 500 gauge (.005" thick)	100 Sft.	5132.00		
16	ch.11/10	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. b) 1:3	100 Sft.	11195.47		
17	ch.11/9b	Cement plaster 1:4 upto 20' (6.00 m) height:- ½" (13 mm) thick	100 Sft.	5344.00		

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18	ch.11/9b	Cement plaster 1:4 upto 20' (6.00 m) height:- 3/4" (13 mm) thick	100 Sft.	8798.00		
19	ch.11/18 +28	Cement pointing struck joints, on walls, upto 20' (6.00 m) hiehgt:- ratio 1:2 ground floor	100 Sft.	253.00		
20	ch.11/18 +28	Cement pointing struck joints, on walls, upto 20' (6.00 m) hiehgt:- ratio 1:2 1st Floor	100 Sft.	1837.00		
21	ch.3/15	Filling, watering and ramming earth under floors:-i) with surplus earth from foundation, etc.	1000 Cft.	2000.00		
22	ch.3/15+ 17	Filling, watering and ramming earth under floors:- ii) with new earth excavated from outside, lead upto 10 mile.	1000 Cft.	34148.00		
23	ch.10/3	Providing, laying, watering and ramming brick ballast 1½" to 2"(40 mm to 50 mm) gauge mixed with 25% sand, for floor foundation, complete in all respects.	100 Cft.	1919.61		
24	ch.10/22	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	100 Sft.	5456.00		
25	ch.10/37	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: (a) using grey cement:(ii) ½"(13 mm) thick	100 Sft.	532.75		
26	ch.10/40	Providing and fixing marble strip of any shade for dividing the mosaic flooring into panels a) Size 1½" x 3/8" (40 x 10 mm)	per Rft	3600.00		
27	ch.9/15	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	No.	15.00		
28	ch.23/27	Providing, laying, cutting, jointing, testing and disinfecting PVC/ uPVC pipe line with `B' Class working pressure pipe, in trenches, complete in all respects:- b) 4" i/d (100 mm)	per Rft	350.00		

Contractor **Executive Engineer**

29	ch.10/15 e	Providing and laying topping of cement concrete 1:2:4, including surface finishing and dividing in panels:- (e) 2"(50 mm) thick	100 Sft	464.00		
30	ch.12/17 b	Providing and fixing 2"wideMS/ GI howkatsingel/double rebatemade of 16 SWG MS sheetpressed/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, punchingoflockhole covered with MS Box,coating with antirust 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. (ii) 10.50 " wide	Per Sft	189.00		
31	ch.12/17 c	Providing and fixing 2"wideMS/ GI Chowkatsingel/double rebatemade of 16 SWG MS sheetpressed/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, punchingoflockhole covered with MS Box,coating with antirust 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. (iii) 5.5 " wide	Per Sft	70.00		
32	ch.12/51	Providing and fixing 1½" (40mm) thick solid flush door shutter (Approved Factory Manufactured) with commercial ply (5 mm thick) on both sides double pressed and deodar wood lipping 1½"x3/8" (40mm x 10mm) around shutter including chromium plated fitting, iron hinges with aluminium kick plate 22 SWG on both sides & finger plate complete in all respect.	Per Sft	259.00		
33	ch.25/41	Providing and fixing steel windows with openable glazed panels, using beam section for frame 1½"x1"x5/8"x1/8" (40x25x16x3 mm), Z-section for leaves ¾"x1"x¾"x1/8" (20x25x20x3 mm), T-section sashes 1"x1"x1/8" (25x25x3 mm), glass panes, wooden screed for glazing embedded over a thin layer of putty duly screwed with leaves, brass fittings, holdfast, duly painted, complete in all respects, including all cost of material and labour, etc. as per approved design and as directed by the Engineer-in-charge:- fixed with wire gauze, 22 SWG 3mm glass pane thick	Per Sft	340.00		

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34	ch.25/58	Providing and fixing M.S. flat ½"x1/8" (13mm x 3mm) grill including ¾" x 1/8" (20 mmx3 mm) M.S. flat frame, in windows of approved design, including painting three coats, complete in all respects.	per sft	340.00		
35	ch.11/22 +23iii	Distempering:- new surface three coats Priming coat of chalk under distemper.	100 Sft	12989.00		
36	ch.13/5c. i	Painting new surface:- Preparing surface and painting of doors and windows any type (including edges):-priming coat.	100 Sft	1198.00		
37	ch.12/25	Providing and fixng class room almirah consiting of 1" (25 mm) thick solid flush shutter with deodar wood lipping ¼" (6 mm) thick all around (Approved Factory Manufactured) fixed in deodar wood frame 3"x1" (75mm x 25mm) including full hinges C.P. fittings with RCC (1:1½:3) shelves 1½" (40 mm) thick including 3 coats of painting.	Per Sft	162.00		
38	ch.25/34	Providing/fixing stair railing consisting of M.S. Box section size 1-1/2"x3" of 16 SWG welded with M.S. flat 1"x1/8" continuously and welded over M.S. square bars 5/8"x5/8"punched in M.S. flat 2 ¾' high @ 5½" c/c fixed in steps of stair I/C painting 3 coats complete.	per Rft	35.00		
39	ch.25/35	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	180.00		
40	N.S	Providing and Fixing white board complete in all respect.	Per Sft	96.00		
41	ch.12/61 aii	Providing and fixing sliding bolt to doors:- (ii) iron sliding bolt, 12" (300 mm) long	each	10.00		

Contractor **Executive Engineer**

42	ch.18/3a.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. (ii) Crushed stone aggregate.	100 cft	960.00		
43	ch.10/41 b	ProvidingandlayingTuffpavers,having7000PSI,crushingstrengthof approvedmanufacturer,over2"to3"sandcushioni/cgroutingwithsand in joints i/c finishing to require slope . complete in all respect. (50% Grey / 50% Coloured) (b) 60-mm thick	per Sft	1920.00		
44	ch.10/24	Providing andlaying superbquality Ceramic tile floorsof Master brand of specified size,Glossy/Matt/Texture of approved Color and Shade as per approved design with adhesivebond, over 3/4" thick (1;2) cement sand plaster i/c the cost of sealer for finishingthe joints i/c cuttinggrinding complete in all respects andas approved and directed by the Engineer Incharge. size 12"x24"	per Sft	1148.00		
45	ch.10/25	Providing andlaying superbquality Ceramictiles dado of Master brand of specified size,Glossy/Matt/Texture skirting/dado of approved Color and Shade with dhesivebond over 1/2"thick(1:2) cement plaster i/c the cost of sealer for finishingthe joints i/c cuttinggrinding complete in all respects as approved and directed bythe Engineer Incharge. size 12"x18"	per Sft	905.40		
46	ch.10/46	Providing and laying 3/8" thick Prepolished Marble skirting/risers having uniform texture (spot less) of size 24"x6" of approved quality and shade with adhesive bond over 3/4" thick (1:2) cement sand mortor complete in all respect i/c the cost of matching sealer to finish the joints as approved and directed by the Engineer Incharge. China Verona	per Sft	69.60		

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47	ch.10/47	Providing and laying 3/4" thick full width Prepolished Marble slab for Vanities / Shelves / Treads/Window Cills , having Uniform texture (Spotless) with adhesive bond over 3/4" thick (1:2) cement sand mortor i/c the cost of matching sealer complete in all respects as approved and directed by the Engineer Incharge. i) China Verona	per Sft	140.90		
48		Providing and fixing 2 mm thick Double glazed aluminium window of anodize / powder coated partly fixed and party sliding using deluxe section of 100mm x 40mm x2 mm using frame (70501) at bottom, (70502) at Top & Side made of Pakistan Cables/Alcop having Leaf Frame size 31mm x 60mm x2 mm (70506) at Top & Bottom, 35mm x 60mm x2 mm (70505) at center and 35mm x 60mm x2 mm(70503) at sides , fixing 5 mm thick imported tinted double glass and air tight using double tape, chemical strips, Silico using approved latches, wheels for channel, stopper, brush channel angle joint and hardware etc.(excluding the cost of Fly Proofing). Complete in all respect as approved and directed by the Engineer Incharge.	P. Sft	290.00		
					Total:	

Contractor **Executive Engineer**

CONSTRUCTION OF TOILET BLOCK AND FIRST FLOOR CLASS ROOM AT LAB. COLLEGE BUILDING (BOYS) AT MAIN CAMPUS UAF.
PUBLIC HEALTH
(D.N.I.T)

Abstract of Cost.

Sr. No.	Ref. No.	Description.	Unit.	Quantity.	Rate	Amount (Rs.)
1	ch.3/44	Excavation of trenches in all kinds of soil, except cutting rock, for watersupply pipelines upto 5 ft. (1.5 m) depth from ground level, including trimming, dressing sides, leveling the beds of trenches to correct grade and cutting pits for joints, etc. complete in all respects.	1000 Cft	1500.00		
2	N.S 1410 item ph-100	P/F PN-10 pipe 63mm dia as approved site Engineer	rft	250.00		
3	N.S 171 item 5	P/F Glazed P-Trap 4" size with fitting material 3 star made as approved site Engineer	each	13.00		
4	N.S 1410 item ph-27	P/F PPRC pipe 32 mm dadex made as approved site Engineer	P.Rft	117.00		
5	N.S 1410 item ph-25	P/F PPRC pipe 25 mm dadex made as approved site Engineer	P.Rft	60.00		
6	N.S 1410 item ph-76	P/F Threaded fittings 25mm x 1/2" L-bow as approved site Engineer	each	22.00		
7	N.S 1530 item 31	P/F Threaded fittings 32mm x 3/4" L-bow as approved site Engineer	each	10.00		

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8	N.S 1410 item ph-18	P/F Threaded fittings 32mm L-bow as approved site Engineer	each	32.00		
9	N.S 1410 item ph-58	P/F Threaded fittings 32mm Tee as approved site Engineer	each	12.00		
10	N.S 338 item 71	P/F porta couple set super cito with seat cover as approved site Engineer	each	1.00		
11	N.S 1410 item ph-0018	P/F Earhen ware water closed orrisa pattern (W.C) 3 star as approved site Engineer.	each	7.00		
12	N.S 1410 item ph-0020	P/F Floor Trape Jail 6"x6" double cover as approved site Engineer.	each	4.00		
13	N.S 1410 item ph-110	P/F of Handle Cock 3/4" dia as approved site Engineer.	each	3.00		
14	N.S 1410 item ph-101	P/F Threaded fitting 32mm x 63mm" socket good made as approved site Engineer.	each	4.00		
15	ch.23/23b	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. ii) Medium Quality ¾" i/d (20 mm) 2.65mm thick	P.Rft	40.00		
16	N.S 1410 item ph-002	P/F Bib Cock 1/2" dia powder coated faisal made as approved site Engineer.	each	7.00		
17	N.S 1410 item ph-006	P/F double Bib Cock 1/2" dia powder coated faisal made as approved site Engineer.	each	1.00		
18	N.S 338 item 69	P/F Wash Hand Venty as approved site Engineer.	each	6.00		
19	N.S 342-A item 52	P/F Side Pillar Cock as approved site Engineer,	each	6.00		

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20	N.S 1410 item ph-003	P/F Tee Cock 1/2" dia with powder coated faisal made as approved site Engineer.	each	14.00		
21	N.S 1410 item ph-017	P/F of Flushing Cistern 3 gallon capasity Tanki (master/faisal made as approved site Engineer.	each	7.00		
22	N.S 1410 item ph-0013	P/F of Muslim Shower Made as approved site Engineer	each	1.00		
23	N.S 1410 item ph-0015	P/F of Bath Accessories Set 7 peaces as approved site Engineer.	each	2.00		
24	N.S 1410 item ph-123	P/F of C.P Nipple 1/2" x 2" (master/faisal made as approved site Engineer.	each	22.00		
25	ch.24/39	Cutting hole 4"x6" (100x150 mm) in stone masonry or brick wall with chisel, repairing masonry and removing debris within one chain lead.	each	20.00		
26	ch.19/4ii	Providing and fixing, flushing bend of PVC. ii) 4 cm (1½")	p. hole	7.00		
27	ch.21/7b	Constructing gully grating chamber, 12"x12", (300x300 mm) complete in all respects: b) concrete Gully trap.	each	4.00		
28	ch.3/42i	Earth work excavation in open cutting for sewers and manholes as shown in drawing including shuttering of wooden vertical planks, struts and beams, dressing to correct section and dimension according to templates and levels and removing surface water in all types of soil except shingle, gravel and rock. i) 0 ft. to 7.0 ft. (0 to 2.10 m) depth	1000 Cft	637.50		
29	ch.23/27a	Providing, laying, cutting, jointing, testing and disinfecting PVC/ uPVC pipe line with `B' Class working pressure pipe, in trenches, complete in all respects:- a) 3" i/d (75 mm)	P.Rft	26.00		

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30	ch.23/26b	Providing, laying, cutting, jointing, testing and disinfecting PVC/ uPVC pipe line with `B' Class working pressure pipe, in trenches, complete in all respects:- b) 4" i/d (75 mm)	P.Rft	160.00		
31	ch.23/38-i-b	Providing and installing P.V.C. bends, of B.S.S i) Class `B' working pressure:- 4" i/d (100 mm.	each	14.00		
32	ch.23/39-i-b	Providing and installing P.V.C. tees, of B.S.S. Class `B' working pressure: **4" i/d (100 mm**	each	8.00		
33	ch.21/1ii	Providing and laying R.C.C. pipe, moulded with cement concrete 1:1½:3, with spigot socket or collar joint, etc. including cost of reinforcement, conforming to B.S. 5911 Part I: 1981, Class "L" including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing, cutting pipes where necessary, finishing and testing, etc., complete.	P.Rft	60.00		
34	ch.23/1-b	Boring for tubewell in all types of soil except shingle and rock, from ground level to 100 ft. (30 m) depth, including sinking and withdrawing of casing pipe, complete:- 4" (100 mm) i/d	P.Rft	25.00		
35	ch.23/27	Providing, laying, cutting, jointing, testing and disinfecting PVC/ uPVC pipe line with `B' Class working pressure pipe, in trenches, complete in all respects:- 6" i/d (150 mm)	P.Rft	26.00		
36	ch.6/3-b	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- (b) Ratio 1: 4: 8	100 Cft	12.38		
37	ch.6/5-f	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):	100 Cft	5.63		

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38	ch.7/7-i	Pacca brick work other than building upto 10ft. (3 m) height. Ratio 1:4	100 Cft	47.25		
39	ch.11/8-b	Cement plaster 1:3 upto 20' (6.00 m) height:- ½" (13 mm) thick	100 Sft	76.50		
40	ch.11/8-c	Cement plaster 1:3 upto 20' (6.00 m) height:- ¾" (20 mm) thick	100 Sft	38.50		
41	ch.6/9-b	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):- (b) Deformed bars (Grade-40)	100 Sft	16.60		
42	ch.6/6a-3c	(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:- Type C (nominal mix 1: 2: 4)	P. Cft	7.00		
43	ch.21/15-a	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.	P. Set	1.00		
44	ch.3/13-i	Rehandling of earthwork: Lead upto a single throw of Kassi, phaorah or shovel	1000 Cft	1410.75		
45	ch.1410 item ph-115	Sewerage connection existing man hole to main line etc.	each	1.00		
46	ch.23/42-i	Making connection for new watersupply lines with the running main, including excavation of trench and refilling, complete, but excluding cost of pipe and specials, etc. Diameter of running main: upto 6" i/d (150 mm)	each	1.00		
					Total:	

Contractor **Executive Engineer**

CONSTRUCTION OF TOILET BLOCK AND FIRST FLOOR CLASS ROOM AT LAB. COLLEGE BUILDING (BOYS) AT MAIN CAMPUS UAF.
ELECTRICAL WORK
(D.N.I.T)

Abstract of Cost.

Sr. No.	Ref. No.	Description.	Unit.	Quantity.	Rate	Amount (Rs.)
1	ch.24/3 iii	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"-dia)	P.Rft	2500.00		
2	ch.24/6-i	Supply and erection PVC pipe for recessed wiring (main and sub-main) purpose, including bends, specials, etc. in floor, wall or trenches:- (2"-dia)	P.Rft	150.00		
3	ch.24/10-a-i	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only):- (3/0.029") S/core	P.Rft	10000.00		
4	ch.24/10-a-iii	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only):- 7/0.029") S/core	P.Rft	9000.00		
5	ch.24/10-a-v	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only):- (7/0.044") S/core	P.Rft	8000.00		
6	ch.24/10-a-vi	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only):- (7/0.064") S/core	P.Rft	400.00		

Contractor **Executive Engineer**

7	ch.24/14-iv	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. (7"x4")	No.	150.00		
8	ch.24/14-ii	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. (10"x12")	No.	30.00		
9	ch.24/32-ii	Supply and erection of switches 10/15 Amp	No.	200.00		
10	ch.24/34	Supply and erection of 3 pin. 5 Amp wall socket.	No.	150.00		
11	ch.24/36-i	Supply and erection of 3 pin switch and plug combined, recessed type. 5 Amp	No.	40.00		
12	ch.24/36-ii	Supply and erection of 3 pin switch and plug combined, recessed type. (10~15 Amp)	No.	40.00		
13	ch.24/30	Supply and erection of ceiling rose, bakelite.	No.	45.00		
14	N.S 002-i-27 002-i-52	S/E of Fan Box	No.	45.00		
15	ch.24/39-i	Supply and erection of button holder. bakelite large size	No.	150.00		
16	N.S E-1021	S/E of Exhaust Fan 12" size Plastic body (Energy Efficient)	No.	6.00		
17	E-1044	S/E of ceiling Fan 56" size copper lahore Fan	No.	18.00		
18	E-1015	S/E of LED Bulb 27 watt	No.	25.00		

Contractor **Executive Engineer**

19	N.S	S/E of maincontorl panel box (18"x24") size SWG i/c one No. MCCB 150/200 Amp T/P 24 No. C/B 6-32 Amp 03No light, volt meter, selector switch complete in all respect.	No.	1.00		
20	E-1011	S/E of LED Flood light 100 watt (Philips made)	No.	2.00		
21	1167-86	S/E of Rawal Bolt 6" size	No.	4.00		
22	E-1070	S/E of Fan Dimmer good quailty	No.	18.00		
23	1167-25	S/E of copper thimble 16mm size	No.	15.00		
					Total:	

Contractor **Executive Engineer**