# (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:- _____

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 Motor Pool at University of Agriculture, Faisalabad** |
| 2 | Estimated cost | **Rs. 250.433Million/-** |
| 3 | Time for completion | **10-Months** |
| 4 | Amount of Bid Security | PKR---------- Million (s) |
| 5 | Issued to | ---------- |
| 6 | Pre-tender conference | ---------- |
| 7 | Dead Line for submission of Tender | 08-05-2023 up to 11:00AM------ |
| 8 | Opening of Tender | 08-05-2023 up to 11:30AM---------- |
| 9 | Issued by | Executive Engineer, University of Agriculture, Faisalabad. |

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

Date:-----

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**OFFICE STAMP**

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

## GENERAL DIRECTIONS FOR
## THE GUIDANCE OF THE TENDERER

1. These directions are provided to assist the tenderer in preparing and submitting his tender. The tender shall contain all information and data required to be furnished and shall be prepared and submitted in accordance with the instructions set forth herein.
2. All necessary documents, such as copies of specifications (excluding standard specification books, MRS, **1st Bi-Annual 2023 District Faisalabad),** contract documents, including bill of quantities, estimated scheduled rates and any other documents required in connection with the preparation of tender or execution of works, signed by the engineer-in-charge will accompany the tender form and the cost of such annexed documents will be reflected in the cost of the tender form.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

18. The tenderer may modify or withdraw his tender after submission, provided that the

modification or notice of withdrawal is received in writing by the engineer-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..

## 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.

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
NAME…….....

Of ……..…….20…  *Address……

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

**(Signature of Executive Engineer)**

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

## MEMORANDUM OF WORK

| | | |
|---|---|---|
| a) | General Descrisption | **Construction of Motor Pool at University of Agriculture, Faisalabad** |
| b) | Estimated bid Cost | **RS. 250.433Millon/-** |
| 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. 5,008,662/-** |
| d) | Percentage of security deposit to be retained forms the bills. | |
| | i) On the amount of work done up to Rs.5.0 million | Ten (10) percent |
| | ii) On the amount of work done beyond Rs.5.0 million. | Five (5) percent |
| e) | Minimum amount of interim running bills | Rupees five million (Rs.-------- only |
| f) | Mobilization period | Fifteen (15) calendar days |
| g) | Time allowed for completing the work after the expiry of mobilization period | ----------calendar months |
| h) | Amount of performance security in the form of Bank Guarantee (see contract conditions clause 7 and General direction 26 (a) | Five (05) percent of the accepted tender price in the case of tenders with cost of exceeding Rs.50.00 million and as per general condition 26(a) for all tenders. |
| i) | Period of maintenance (after the date of issuance of certificate of completion) | Twelve (12) calendar months. |

## SUMMARY OF COST
## CONSTRUCTION OF MOTOR POOL AT UNIVERSITY OF AGRICULTURE, FAISALABAD

| Sr.# | DESCRIPTION | TOTAL AMOUNT (PKR) |
|---|---|---|
| | **Building Area** | |
| 1 | **Civil Work** | |
| 2 | **Public Health Work** | |
| 3 | **Electrical Work** | |
| | **Total Amount of Building Area (Sub Total-A)** | |
| | **External Development** | |
| 1 | **Civil Work** | |
| 2 | **Electrical Work** | |
| 3 | **Public Health Work** | |
| | **Total Amount of External Development (Sub Total-B)** | |
| | **Total (A+B)** | |
| | **Add 5%PRA** | |
| | **Grand Total** | |

# CIVIL WORK (Building Area)

| Item # | MRS.# | WORK DESCRIPTION | Unit | Quantity | Rate (PKR) | Amount (PKR) |
|---|---|---|---|---|---|---|
| | | **EARTH WORK (Excavation & Embankment)** | | | | |
| | | **Schedule Item** | | | | |
| 1 | Ch.3/47(a) (P.33) | SITE PREPARATION FOR CONSTRUCTION: Clearing , grubbing and clearance of light or thick Jungle and removing , complete in all respects as directed by the Engineer-in-charge. | Per Sft | 11,555.00 | | |
| 2 | Ch.3/21 (2-ii) (P.30) | EARTH WORK: 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 | 37,686.20 | | |
| 3 | Ch.3/15(i) + Ch.3/24 (P.29 & 30) | EARTH FILLING WITH SURPLUS SOIL: Filling, watering and ramming earth under floors:- with surplus earth from foundation, etc. Including compaction of earthwork (soft, ordinary or hard soil) :- Mixing, moistening earth to optimum moisture content in layers for compaction, etc. complete in all respects. | Per Cft | 35,473.96 | | |
| 4 | Ch.3/15(ii )+Ch.3/17 (P.29 & 30) | EARTH FILLING FROM OUTSIDE WITH NEW EARTH: Filling, watering and ramming earth under floors:-. ii) with new earth excavated from outside, lead upto 15 Mile). Including compaction of earthwork (soft, ordinary or hard soil) :- Mixing, moistening earth to optimum moisture content in layers for compaction, etc. complete. | Per Cft | 69231.50 | | |
| | | | | | **Total** | |

**Contractor** **Executive Engineer**

| CONCRETE | | | | | | |
|---|---|---|---|---|---|---|
| Item # | MRS.# | WORK DESCRIPTION | Unit | Quantity | Rate (PKR) | Amount (PKR) |
| | | Schedule Item | | | | |
| 1 | Ch.6/3)P.(41) | Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- | | | | |
| | | (d) Ratio 1: 6:12 | Per Cft | 3087 | | |
| 2 | Ch.6/2)P.(41) | Dry rammed brick or stone ballast, 1½" to 2"( 40 mm to 50 mm) gauge. | Per Cft | 5056 | | |
| 3 | Ch.6/5(i) (P.41) | PLAIN CEMENT CONCRETE (1:4:8) : 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 | 3,099.00 | | |
| 4 | Ch.6/6a (iii-3) (P.42) | REINFORCED CEMENT CONCRETE WORK : 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)(iii) Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members other than those mentioned in 6(a) (i)&(ii) above not requiring form work (i.e. horizontal shuttering) complete in all respects:- 3) Type C (nominal mix 1: 2: 4) | Per Cft | 6,231.60 | | |
| 5 | Ch.6/6a (i-2) (P.42) | REINFORCED CEMENT CONCRETE WORK : 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.):- | | | | |

**Contractor** **Executive Engineer**

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 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) Ground Floor | Per Cft | 6,352.40 | | |
| | +Ch.6/16(a) (P.45) | b) First Floor | Per Cft | 1,388.64 | | |
| | +Ch.6/16(a) (P.45) | e) Mumty Floor | Per Cft | 253.20 | | |
| 6 | Ch.6/6a (i-3) (P.42) | 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 C (nominal mix 1: 2: 4) | | | | |
| | | a) Ground Floor | Per Cft | 5,363.80 | | |
| | +Ch.6/16(a) (P.45) | b) First Floor | Per Cft | 4,162.80 | | |
| | +Ch.6/16(a) (P.45) | e) Mumty Floor | Per Cft | 120.80 | | |
| 7 | Ch.6/12 ('c) (P.45) | STEEL REINFORCEMENT: Supply and Fabrication of mild steel reinforcement for cement concrete including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars). Deformed bars (Grade-60) | Per Kg | 146,748.21 | | |
| 8 | Ch.6/37 (a ia) (P.48) | Providing and laying damp proof course with cement sand plaster and bitumen coating:- (a) with one coat of bitumen and one coat of polythene sheet 500 gauge | | | | |
| | | i) Ratio 1: 4 b) ¾" thick (20 mm) vertical | Per Sft | 1,245.60 | | |

**Contractor** **Executive Engineer**

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 | Ch.6/5(f) (P.41) | PCC 1:2:4 UNDER FLOORING: 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 | 2,409.23 | | |
| | +Ch.6/16( a) (P.45) | b) First Floor | Per Cft | 499.75 | | |
| | +Ch.6/16( a) (P.45) | e) Mumty Floor | Per Cft | 30.00 | | |
| | | | | | **Total** | |

**Contractor** **Executive Engineer**

| BRICK WORK | | | | | | |
|---|---|---|---|---|---|---|
| **Item #** | **MRS.#** | **WORK DESCRIPTION** | **Unit** | **Quantity** | **Rate (PKR)** | **Amount (PKR)** |
| | | Schedule Item | | | | |
| 1 | Ch.7/30 (P.59) | Supplying and filling sand under floor; or plugging in wells. including dressing and leveling complete in all respects. | Per Cft | 2886 | | |
| 3 | Ch.7/4(i) (P.52) | BRICK MASONRY IN FOUNDTION : Pacca brick work in foundation and plinth in:- i) Cement, sand mortar:- Ratio 1:6 | Per Cft | 3894 | | |
| 4 | Ch.7/5(i) (P.53) | BRICK MASONRY : 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 | 5693 | | |
| | +7/6 (P.53) | b) First Floor | Per Cft | 5062 | | |
| | +7/6 (P.53) | e) Mumty Floor | Per Cft | 423 | | |
| 5 | 7/38(i) (P.57) | GUTTKA BRICKS: Providing and laying fairface Gutka cladding laid in (1:2) cement/ red posso mort arhaving 1/4" thick groove finish i/c cost of 8SWG wire in 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. 2-1/4" x 2-1/4" x 9" | | | | |
| | | a) Ground Floor | Per Sft | 376 | | |
| | +7/6 (P.53) | b) First Floor | Per Sft | 484 | | |
| | +7/6 (P.53) | e) Mumty Floor | Per Sft | 184 | | |
| | | | | | **Total** | |

**Contractor** **Executive Engineer**

**ROOFING**

| Item # | MRS.# | WORK DESCRIPTION | Unit | Quantity | Rate (PKR) | Amount (PKR) |
|---|---|---|---|---|---|---|
| | | Schedule Item | | | | |
| 1 | 9/35(iii) (P.64) | 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:- iii) Thermopore sheet 1" (25 mm) thick | Per Sft | 3,803.20 | | |
| 2 | 9/15 (P.63) | Khuras on roof 2'x2'x6" (600 x 600 x 150 mm) | Each | 11.00 | | |
| 3 | 9/46 (ii) (P.66) | WATER PROOFING MEMBRANE ON WALLS AND FLOOR: 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 | 600.00 | | |
| 4 | 9/12 (P.62) | WATER PROOFING FOR FOUNDATION. Two coats of bitumen laid hot using 34 lbs. per %Sft, or 1.72 Kg per square metre over roof and blinded with sand at one Cft. per %Sft. (0.003 cu.m per sq.m) | Per Sft | 4,539.00 | | |
| | | NON SCHEDULE ITEMS | | | | |
| | NS-1 | DUMPA FALSE CEILING: Providing and laying 0.7 mm Dumpa False Ceiling, 24" x 48" Imported of approved color / texture, as shown on drawing section, fixed with imported powder coated aluminum, " T" & "L" section with GIG or CKM ceiling suspension system , including making provision for light fixture, A/C diffusers, smoke detectors etc. as per drawings, at any height and any floor, Complete in all respect and conforming to the requirements of drawings, specification and to the entire satisfaction of the Architect/Engineer. | Per Sft | 1,295.74 | | |
| | | | | | **Total** | |

**Contractor** **Executive Engineer**

**FLOORING**

| Item # | MRS.# | WORK DESCRIPTION | Unit | Quantity | Rate (PKR) | Amount (PKR) |
|---|---|---|---|---|---|---|
| | | Schedule Item | | | | |
| 1 | 10/42 (a-ii) (P.73) | PORCELAIN TILE FLOORING & SKIRTING: 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) | | | | |
| | | a) Ground Floor | Per Sft | 1157 | | |
| 2 | 10/24 (i) (P.70) | CERAMIC TILE ON FLOOR: ProvidingandlayingsuperbqualityCeramictilefloorsofMasterbrandofspecifiedsize,Glossy/Matt/TextureofapprovedColorandShadeasperapproveddesignwithadhesivebond,over3/4"thick(1;2)cementsandplasteri/cthecostofsealerforfinishingthejointsi/ccuttinggrindingcompleteinallrespectsandasapprovedanddirected by the Engineer Incharge. 12"x18"/12"x24"/10"x24" /8"x24"/12"x36" | | | | |
| | 10/24 (i)+18(P.69) (P.70) | a) Ground Floor | Per Sft | 935.0 | | |
| | 10/24 (i)+18(P.69) (P.70) | b) First Floor | Per Sft | 935.0 | | |
| 3 | 10/25 (i) (P.70) | CERAMIC TILE ON WALLS: brandofspecifiedsize,Glossy/Matt/Textureskirting/dadoofapprovedColorandShadewithadhesivebondover1/2"thick(1:2)cementplasteri/cthecostofsealerforfinishingthejointsi/ccuttinggrindingcompleteinallrespectsasapprovedanddirectedbytheEngineerIncharge. 12"x18"/12"x24"/10"x24" /8"x24"/12"x36" | | | | |
| | | a) Ground Floor | Per Sft | 713 | | |

**Contractor** **Executive Engineer**

| | | | | | | |
|---|---|---|---|---|---|---|
| | 10/25-i (P.70)+18 (P.69) | b) First Floor | Per Sft | 713 | | |
| 4 | 10/47 (i) (P.74) | PREPOLISHED MARBLE SLAB: 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 mortor i/c the cost of matching sealer complete in all respects as approved and directed by the Engineer Incharge. | | | | |
| | | a) China Verona | Per Sft | 60.00 | | |
| 5 | 10/48 (P.76) | Extra for Bevelling charges of marble edge in approved design complete in all respects i/c the cost of Carbo randam disc as approved and directed by the Engineer Incharge. | Per Rft | 32.00 | | |
| 6 | 10/49 (P.74) | 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 | 32.00 | | |
| 7 | 10/50 (i) (P.74) | PREPOLISHED GRANITE ON STAIRS: 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 mortor bed, complete in all respect as approved and directed by the Engineer Incharge. | | | | |
| | | b) 1/2" thick on riser, Skirting, Landing | Per Sft | 924.00 | | |
| 1 | 10/22 (P.70) | MOSAIC FLOORING: 1½"(40 mm) thick mosaic flooring, consisting of ½ "(13mm) 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, Main Entrance | Per Sft | 4138.40 | | |
| | | | | | **Total** | |

**Contractor** **Executive Engineer**

**SURFACE RENDERING**

| Item # | MRS.# | WORK DESCRIPTION | Unit | Quantity | Rate (PKR) | Amount (PKR) |
|---|---|---|---|---|---|---|
| | | Schedule Item | | | | |
| 1 | 11/9 (b) (P.76) | INTERNAL WALL PLASTER : Providing and laying of Cement plaster ratio 1:4 upto 20' (6.00 m) height:- ½" (13 mm) thick, complete in all respect. | | | | |
| | 11/9 (b) (P.76) | a) Ground Floor | Per Sft | 9,467.02 | | |
| | 11/9 (b) (P.76)+28 (P.78) | b) First Floor | Per Sft | 3,340.44 | | |
| | 11/9 (b) (P.76)+28 (P.78) | e) Mumty Floor | Per Sft | 3,340.44 | | |
| 2 | 11/9 (c) (P.76) | INTERNAL WALL PLASTER : Providing and laying of Cement plaster ratio 1:4 upto 20' (6.00 m) height:- (c) ¾" (20 mm) thick | | | | |
| | 11/9 (c) (P.76) | a) Ground Floor | Per Sft | 5,966.76 | | |
| | 11/9 (c) (P.76)+28 (P.78) | b) First Floor | Per Sft | 5,966.76 | | |
| | 11/9 (c) (P.76)+28 (P.78) | e) Mumty Floor | Per Sft | 5,966.76 | | |
| 3 | 11/11(c) (P.76) | EXTERNAL PLASTER: Cement plaster 1:5 upto 20' (6.00 mm) height:- c) ¾" (20 mm) thick | | | | |

**Contractor** **Executive Engineer**

| | | | | | | |
|---|---|---|---|---|---|---|
| | | a) Ground Floor | Per Sft | 3158 | | |
| | +11/28 (P.78) | b) First Floor | Per Sft | 2566 | | |
| | +11/28 (P.78) | e) Mumty Floor | Per Sft | 396 | | |
| 4 | Ch.11/10b (P.76) | Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. Ceiling Plaster (1:3) (up to 20' hight) | | | | |
| | Ch.11/10b (P.76) | a) Ground Floor | Per Sft | 8117 | | |
| | 11/10b (P.76) +28 (P.78) | b) First Floor | Per Sft | 8117 | | |
| | 11/10b (P.76) +28 (P.78) | c) Mumty Floor | Per Sft | 209 | | |
| 5 | 11/22+ 23a.iii(P.77) | CEILING DISTEMPER: Priming coat of chalk under distemper and three coats Distempering:- complete in all respects at any floor . | | | | |
| | 11/22+ 23a.iii(P.77) | a) Ground Floor | Per Sft | 8117 | | |
| | 11/22+ 23a.iii(P.77)+28(P.78) | b) First Floor | Per Sft | 8117 | | |
| | 11/22+ 23a.iii(P.77)+28(P.78) | c) Mumty Floor | Per Sft | 209 | | |

**Contractor** **Executive Engineer**

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 | 11/39 (P.79) | GRAFFIATO WEATHER COATING: Preparing surface and applying Graffiato Weather Coating ( Co-polymer emulsion) of approved colour & shade with weather resistant pigment, highly water repellant with Metalic 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 | | | | |
| | | a) Ground Floor | Per Sft | 3158 | | |
| | +11/38 (P.78) | b) First Floor | Per Sft | 2566 | | |
| | +11/38 (P.78) | e) Mumty Floor | Per Sft | 396 | | |
| | | Schedule Item | | | | |
| 7 | 11/39 (P.79) | STUCCO COATING: Preparing surface and applying 2" (50 mm) stucco cement plaster 1:2:4 (cement, sand and shingle) upto 20' (6.00 m) height complete in all respect as approved and directed by the Engineer Incharge. | Per Sft | | | |
| | 11/39 (P.79) | a) Ground Floor | Per Sft | 22,121.20 | | |
| | 11/39 (P.79)+28 (P.78) | b) First Floor | Per Sft | 22,121.20 | | |
| | 11/39 (P.79)+28 (P.78) | c) Mumty Floor | Per Sft | 2,090.00 | | |
| | 11/39 (P.79)+28 (P.78) | e) Parapit wall | Per Sft | 2,520.00 | | |
| | | | | | **Total** | |

**Contractor** **Executive Engineer**

**WOOD WORK**

| Item # | MRS.# | WORK DESCRIPTION | Unit | Quantity | Rate (PKR) | Amount (PKR) |
|---|---|---|---|---|---|---|
| | | Schedule Item | | | | |
| 1 | 12/17 (ii & iii) (P.84) | M.S CHOWKAT: Providing and fixing 2" wide MS Chowkat single/double rebate made of 16 SWG MS sheet pressed/ welded/ supported with M.S. flat 1-1/4"x1/8" i/c 6" long M.S. Flat 1"x1/8" hold fasts (6-Nos) welded/ screwed, punching of lock hole covered with MS Box, coating with anti-rust paint including filling with cement sand mortar (1:8) and embedding hold fast in cement concrete (1:2:4), complete in all respect as approved and directed by Engineer Incharge. | | | | |
| | | a) 10.50 " wide | Per Sft | 219 | | |
| | | b) 5.5 " wide | Per Sft | 96 | | |
| 2 | 12/67 (P.91) | DOOR CLOSER: Providing and fixing auotomatic hydraulic operated door closer imported heavy duty complete in all respect as approved and directed by the Engineer Incharge. | Each | 4 | | |
| 3 | 12/52 (P.88) | SOLID FLUSH DOORS: 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 | 476.00 | | |
| 4 | 13/7 (P.94) | POLISHING ON WOOD WORK: 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 | 952.00 | | |
| 5 | 12/61 (P.90) | P/heavy duty sliding bolt of specified material i/c the cost of hard ware complete in all respect as approved and directed by the Engineer Incharge. | | | | |
| | (a-i) | Iron, 10" (250 mm) long | Each | 1.00 | | |

**Contractor** **Executive Engineer**

| | | | | | | |
|---|---|---|---|---|---|---|
| | (b-i) | Brass 10" (250 mm) long | Each | 25.00 | | |
| 6 | 12/91 (P.91) | DOOR LOCK : Providing and fixing Imported MortiseLever HandleLock with back plate (Machine, Cylinders, Lever Handles (Pair) and backplate (Pair)) of approved quality, design & finish, including the cost of all accessories to complete the job as shown on drawing and as per specification, complete in all respect, as approved and directed by the Engineer Incharge | Each | 26.00 | | |
| | | NON SCHEDULE ITEMS | | | | |
| | NS-1 | UPVC DOORS : 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 | 360 | | |
| | | | | | **Total** | |

**Contractor** **Executive Engineer**

**PAINTING & VARNISHING**

| Item # | MRS.# | WORK DESCRIPTION | Unit | Quantity | Rate (PKR) | Amount (PKR) |
|---|---|---|---|---|---|---|
| | | Schedule Item | | | | |
| 1 | 13/5 (c) (P.93) | ENAMEL PAINT: Preparing surface and painting of doors and windows any type (including edges):- new surface three coats. | Per Sft | 5,016.20 | | |
| 2 | 13/31 (P.96)+ 11/22 (P.77) | EMULSION PAINT: Preparing surface and painting with emulsion paint:- new surface two coats, including the cost of wall putty complete on walls and ceiling at any height in any floor . | Per Sft | 29240.80 | | |
| | | | | | **Total** | |

**Contractor** **Executive Engineer**

**IRON WORK**

| Item # | MRS.# | WORK DESCRIPTION | Unit | Quantity | Rate (PKR) | Amount (PKR) |
|---|---|---|---|---|---|---|
| | | Schedule Item | | | | |
| 1 | 25/39 (P.205) | M.S RAILING: Providing and fixing stair railing of 2½" (63 mm) i/d G.I. pipe, welded with 5/8"x5/8" (16x16 mm) square M.S. bars 2'-9" (838 mm) high, fixed in each step, complete in all respects, including painting, polishing three coats. | Per Rft | 50.00 | | |
| 2 | 25/52 (P.208) | ALUMINIUM WINDOWS : 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 30 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 | 892.00 | | |
| 3 | 25/52 (P.208) (section thickness is 1.2 mm) | ALUMINIUM VENTILATORS: 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 30 mm (4"x¾") and leaf frame sections of 50 x 20 mm (2"x¾"), all of 1.2mm 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 | 70.00 | | |
| 4 | 25/53 (P.208) | ALUMINIUM FLY SCREEN : 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 | 892.00 | | |

**Contractor** **Executive Engineer**

| | | | | | | |
|---|---|---|---|---|---|---|
| 5 | 25/59 (i) (P.209) | M.S GRILL :<br>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 | 432.00 | | |
| 6 | 25/62 (i) (P.210) | M.S STEEL DOORS:<br>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.<br>(i) Single Leaf | Per Sft | 129.50 | | |
| 7 | 18/23 (P.120) | Providing and fixing M.S Grating comprising of Angle Iron frame size 1.50" x 1.50" x 3/16" and 1/2" square bars duly welded @ 4" c/c, including painting charges etc complete in all respect | Per Sft | 242.00 | | |
| | | | | | **Total** | |

**Contractor** **Executive Engineer**

**MISCELLANCEOUS**

| Item # | MRS.# | WORK DESCRIPTION | Unit | Quantity | Rate (PKR) | Amount (PKR) |
|---|---|---|---|---|---|---|
| | | Schedule Item | | | | |
| 1 | Ch.26/37(ii) (P.214) | POLYTHENE SHEET : Supplying and laying polythene sheet over D.P.C. walls, under floors and on roofs, etc. 500 gauge (.005" thick) | Per Sft | 5,849 | | |
| 2 | Ch.26/43 (P.214) | ANTI-TERMITE TREATMENT : 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 | 12,240 | | |
| | | | | | **Total** | |
| | | | | | **Grand Total (Civil Work) (To be Carried at Summary of Cost)** | |

**Contractor** **Executive Engineer**

## Public Health Work (Buildng Area)

| Item # | MRS.# | WORK DESCRIPTION | Unit | Quantity | Rate (PKR) | Amount (PKR) |
|---|---|---|---|---|---|---|
| | **PLUMBING, SANITARY, INSTALLATION GAS FITTINGS & WATER SUPPLY** | | | | | |
| 1 | Ch.19/32 (P.128) | Providing and fitting, chromium plated or brass oxidised, swan neck cock 15 mm (½") dia. | | | | |
| | (ii) | two way | Each | 10 | | |
| 2 | Ch.19/53 (P.132) | 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 pipe line complete in all respects as approved and directed by the Engineer Incharge. | | | | |
| | (ii) | 50 Gallons | Each | 2 | | |
| 3 | Ch.19/52 (P.132) | 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. | | | | |
| | (i) | 3 No Tee Stop Cock (set) | Each | 2.00 | | |
| | (ii) | Lever Type Basin Mixer | Each | 2.00 | | |
| | (iii) | Double Bib Cock | Each | 10.00 | | |
| | (iv) | Open Type Wall Shower | Each | 10.00 | | |
| | (v) | Muslim shower | Each | 10.00 | | |
| | (vi) | Waste Coupling | Each | 2.00 | | |
| | (vii) | Bottle Trap | Each | 2.00 | | |

**Contractor** **Executive Engineer**

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | | | **TOTAL** | |
| | A-SANITARY INSTALLATION | | | | | |
| 4 | Ch.19/1 (i) (P.125) | Providing and fitting glazed earthen ware coloured water closet European type, excluding seat and cover:- | Each | 4.00 | | |
| 5 | Ch.19/2 (ii) (P.125) | Providing and fixing, Plastic double seat and cover only. | Each | 4.00 | | |
| 6 | Ch.19/4 (i) (P.125) | Providing and fitting glazed earthen ware coloured water closet, squatter type (Orisa pattern), combined with foot rest. | Each | 6.00 | | |
| 7 | Ch.19/7 (i) (P.125) | Providing and fitting glazed earthen ware wash hand basin 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc.<br>white, with pedestal | Each | 2.00 | | |
| 8 | Ch.19/7 (v) (P.126) | Providing and fitting glazed earthen ware wash hand basin 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc.<br>Under Counter Vanity Basin | Each | 8.00 | | |
| 9 | Ch.19/8 (P.126) | Providing and fixing stainless steel sink with drain board, size 120x60 cm (48"x24") including bracket set, waste pipe and waste coupling. | Each | 1.00 | | |
| 10 | Ch.19/13 (i) (P.126) | Providing and fitting coloured plastic made low down flushing cistern 13.63 litre (3 gallons) capacity, including bracket set, copper connection, etc. complete. | Each | 6.00 | | |
| 11 | Ch.19/16 (P.126) | Providing and fixing, chromium plated soap dish. | Each | 14.00 | | |
| 12 | Ch.19/19(i) (P.127) | Providing and fixing, chromium plated towel rail:-<br>60 cm (24") long, and 2 cm (¾") dia. | Each | 10.00 | | |
| 13 | Ch.19/20 (P.127) | Providing and fixing looking glass 55x40 cm (22"x16") size, and 5 mm thick, first quality. | Each | 10.00 | | |

**Contractor** **Executive Engineer**

| | | | | | | |
|---|---|---|---|---|---|---|
| 14 | Ch.19/21(i)<br>(P.127) | Providing and fixing glass shelf 60x13 cm (24"x5"), with 5mm thick glass:-<br>with chromium plated brackets and railing. | Each | 2.00 | | |
| 15 | Ch.19/28<br>(P.128) | Providing and fixing chromium plated tee stop cock 15mm (½"). | Each | 16.00 | | |
| 16 | Ch.19/47(<br>P.130) | 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 Engineer Incharge. | | | | |
| | | b) Type (SDR 32.5/SN-8) | | | | |
| | (iii) | 2"(60 mm) | Per Rft | 84.00 | | |
| | (iv) | 3"(85 mm ) | Per Rft | 54.00 | | |
| | (v) | 4"(110 mm) | Per Rft | 148.00 | | |
| | (vi) | 6"(160 mm) | Per Rft | 86.00 | | |
| 17 | Ch.19/49<br>(P.131) | 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 | | | | |
| | | a) P-Trap | | | | |
| | (i) | 4" dia | Each | 10.00 | | |
| | (ii) | 3" dia | Each | 10.00 | | |
| | | b) Multi-Trap | | | | |
| | (ii) | 3" dia | Each | 4.00 | | |
| | | c) Vent Cowel | | | | |
| | (iii) | 2" dia | Each | 2.00 | | |
| | | d) Clean Out | | | | |

**Contractor** **Executive Engineer**

| | | | | | | |
|---|---|---|---|---|---|---|
| | (i) | 4" dia | Each | 6.00 | | |
| | | | | | **TOTAL** | |
| | GAS WORK | | | | | |
| 18 | Ch.19/44 (P.130) | Providing and fixing, brass gas cock:- | | | | |
| | b) | 20 mm (¾") dia | Each | 3.00 | | |
| 19 | Ch.19/50 (P.131) | Providing, laying, testing and commissioning underground Yellow Polyethelene (MDPE) gas pipe tubing of required IPS (Iron Pipe Size) in the trenches , made of Dadex/ Popular / Beta or equivelant, for Gas supply i/c the cost of solvent and specials complete as approved and directed by the Engineer Incharge. | | | | |
| | | SDR-11 | | | | |
| | (i) | 3/4" | Per Rft | 20.00 | | |
| | (ii) | 1¼" | Per Rft | 5.00 | | |
| | | | | | **TOTAL** | |
| | Non- Schedule Items | | | | | |
| 20 | NSI | Supply & Installation of Electric Water Cooler made of Stainless Steel body, Plastic top cover with drain pot, removable back panel, equipped with hermatically sealed Danfoss or equivalent compressor with condeseer fan & copper cooling coil, built in Stainless Steel Water Water Tank of capacity 45 Gallons insulated with moisture proof Polysterene insulation and with High-quality water temperature control thermostat, adjustable from 9°C to 15°C (48°F to 60°F) along with 3 stage Water Filter of Matching Capacity, complete with all necessary piping, an isolation valve & Tee stop cock and all necesary fittings and with satisfaction of Engineer Incharge | Each | 2.00 | | |

**Contractor** **Executive Engineer**

| | | | | | | |
|---|---|---|---|---|---|---|
| 21 | NSI | Supply, Installation, Testing & Commissioning of Centrifugal Water transfer pumps for filling of Over Head water tank of KSB, WILO, HMA or GRUNDFOS make with electric motor SIEMENS or equivalent make, including all accessories, control pannels, DOL Starter,Float Switch, dry running protection, alarm switch of approved manufacturer of each of following Capacity and Pumping head as per specification. | Each | 1.00 | | |
| | | Capacity =100 gpm<br>Head = 60 feet | | | | |
| 22 | NSI | Supply & Installation of Stainless Steel (SS316 15-SWG) Grease Trap. | Each | 1.00 | | |
| | | | | | **Total** | |

**Contractor** **Executive Engineer**

| Item # | MRS.# | WORK DESCRIPTION | Unit | Quantity | Rate (PKR) | Amount (PKR) |
|---|---|---|---|---|---|---|
| | | WATER SUPPLY | | | | |
| 1 | Ch.23/23 (P.150) | 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. | | | | |
| | f) | 2" i/d (50 mm) 3.65mm thick | Per Rft | 63 | | |
| | i) | 4" i/d (100 mm) 4.5mm thick | Per Rft | 28 | | |
| 2 | Ch.23/46 (P.159) | Providing and fixing CP heavy duty brass Ball valve with CP handle of specified diameter made of Faisal/Sonex / Master best quality or equivalent complete in all respect as approved and directed by the Engineer Incharge. | | | | |
| | v) | 1-1/2" dia | Each | 2 | | |
| | vi) | 2" dia | Each | 7 | | |
| 3 | Ch.23/47 (P.159) | 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). | | | | |
| | | a) PN-16 pipe | | | | |
| | (ii) | (3/4") 25 mm | Per Rft | 418 | | |
| | (iii) | (1") 32 mm | Per Rft | 193 | | |
| | (iv) | (1-1/4") 40 mm | Per Rft | 140 | | |
| | (v) | (1-1/2") 50 mm | Per Rft | 248 | | |
| | | b) PN-20 pipe | | | | |
| | (vi) | (1-1/2") 50 mm | Per Rft | 148 | | |

**Contractor** **Executive Engineer**

| | | | | | | |
|---|---|---|---|---|---|---|
| 4 | Ch.23/50 (P.161) | Providing and fixing heavy duty Strainer valve of specified diameter and material for pressure rating PN-16 made of Crane (USA), Hatersly (UK) or Scon (Pakistan)i/c the cost of all accessories flanges,nut/bolt and gaskit where required complete in all respect as approved and directed by the Engineer Incharge. | | | | |
| | | (a) Brass Threaded Valves | | | | |
| | (vi) | 2" dia | Each | 1 | | |
| 5 | Ch.23/52 (P.162) | Providing and fixing heavy duty Gate valve of specified diameter and material for pressure rating PN-16 mde of Crane (USA), Hatersly (UK) or Scon (Pakistan) i/c the cost of all accessories flanges,nut/bolt and gaskit where required complete in all respect as approved and directed by the Engineer Incharge. | | | | |
| | | (b) Flange Ended Ductile I ron Valve | | | | |
| | (ix) | 4" dia | Each | 2 | | |
| 6 | Ch.23/54 (P.163) | Providing and fixing heavy duty Check valve of specified diameter and material for pressure rating PN-16 made of Crane (USA), Hatersly (UK) or Scon (Pakistan) i/c the cost of all accessories flanges,nut/bolt and gaskit where required complete in all respect as approved and directed by the Engineer Incharge. | | | | |
| | | (a) Brass Threaded Valves | | | | |
| | (vi) | 2" dia | Each | 1 | | |
| | | FIREFIGHTING - NON SCHEDULE ITEMS | | | | |
| 7 | NSI | Supply, Installation and commissioning of Wall Mounted Fire Extinguisher CO2 Type, Capacity 5 kg as per approval of the engineer. | Each | 5.00 | | |
| 8 | NSI | Supply, Installation and commissioning of Wall Mounted Fire Extinguisher DCP Type, Capacity 6 kg as per approval of the engineer. | Each | 5.00 | | |
| | | | | | **Total** | |
| | | | | | **Grand Total (Public Health Work) (To be Carried at Summary of Cost)** | |

**Contractor** **Executive Engineer**

| ELECTRICAL & ALLIED WORKS (INTERAL WORKS) | | | | | | |
|---|---|---|---|---|---|---|
| **Sr. #** | **MRS Ref#** | **Description of work** | **Unit** | **Quantity** | **Rate** | **Amount** |
| SCHEDULE ITEMS:- 1st Biannual 2023, Faisalabad. | | | | | | |
| 1 | Ch.24/3(P.168) | Supply and erection of PVC pipe for wiring recessed in walls, including clamps inspection boxes, pull boxes, bends, tees, repairing surface, etc., complete with all specials:- | | | | |
| | (ii) | 20 mm i/d | P. Rft | 250 | | |
| | (iii) | 25 mm i/d | P. Rft | 13,650 | | |
| | (iv) | 32 mm i/d | P. Rft | 100 | | |
| | (v) | 40 mm i/d | P. Rft | 100 | | |
| 2 | Ch.24/6(P.168) | Supply and erection of PVC pipe for wiring recessed in walls, including clamps inspection boxes, pull boxes, bends, tees, repairing surface, etc., complete with all specials:- | | | | |
| | (i) | 50 mm i/d | P. Rft | 300 | | |
| | (iii) | 100 mm i/d | P. Rft | 300 | | |
| 3 | Ch.24/10(a)(P.169) | Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe /M.S. conduit /G.I pipe /wooden strip batten/ wooden casing an capping/ G.I. wire/ trenches (rate for cables only):- 250/440 volts, PVC insulated: | | | | |
| | (i) | 3/0.74 mm (3/0.029") | P. Rft | 16,560 | | |
| | | 7/0.74 mm (7/0.029") | P. Rft | 12,145 | | |

**Contractor** **Executive Engineer**

| | | | | | | |
|---|---|---|---|---|---|---|
| | (iii) | | | | | |
| | (iv) | 7/0.91 mm (7/0.036") | P. Rft | 3,000 | | |
| | (v) | 7/1.12 mm (7/0.044") | P. Rft | 500 | | |
| 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:- | | | | |
| | (vi) | 10 mm (7/0.052") | P. Rft | 50 | | |
| | (vii) | 16 mm (7/0.064") | P. Rft | 50 | | |
| | (viii) | 25 mm (19/0.052") | P. Rft | 300 | | |
| | (ix) | 35 mm sq (19/0.064") | P. Rft | 0 | | |
| 5 | Ch.24/10(C)(P.169) | Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe /M.S. conduit /G.I pipe /wooden strip batten/ wooden casing an capping/ G.I. wire/ trenches (rate for cables only):- 450/750 volts, PVC insulated: | | | | |
| | (vi) | 10 mm (7/0.052") | P. Rft | 50 | | |
| | (vii) | 16 mm (7/0.064") | P. Rft | 350 | | |
| | (viii) | 25 mm (19/0.052") | P. Rft | 0 | | |
| 6 | Ch.24/12(P.170) | Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 660/1100 volts grade cable, in prelaid pipe/G.I. wire /M.S conduits/ trenches, etc. (rate for cable only):- | | | | |
| | (xiv) | 300 mm sq (61/0.099") | P.Rft | 0 | | |
| | (ix) | 95 mm sq (37/0.072") | P.Rft | 0 | | |

**Contractor** **Executive Engineer**

| | | | | | | |
|---|---|---|---|---|---|---|
| | Switch Plates and Cable tray | | | | | |
| 7 | Ch.24/14( P.172) | 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 | 150 | | |
| | ii) | 17.5 x 10 cm (7"x4") | P. No | 20 | | |
| 8 | Ch.24/10 3 (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 | 15 | | |
| | (ii) | 02 Gange | P. No | 10 | | |
| | (iii) | 03 Gange | P. No | 35 | | |
| | (iv) | Three pin Light Plug 10/13 Amp | P. No | 70 | | |
| | (viii) | Three pin Power Plug 15-32 Amp | P. No | 20 | | |
| | (v) | Telephone / TV/Datacable socket | P. No | 15 | | |
| | (vi) | Fan Dimmer | P. No | 15 | | |
| | (vii) | bell push | P. No | 5 | | |

**Contractor** **Executive Engineer**

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 | Ch.24/98 (P.188) | 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) | 4" x 4" 16 SWG | P.Rft | 50 | | |
| | ii) | 9" x 4" 16 SWG | P.Rft | 50 | | |
| | Fitting Fixtures & Fans | | | | | |
| 10 | 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 | 5 | | |
| 11 | 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 | 5 | | |
| 12 | Ch.24/30 (P.174) | Supply and erection of ceiling rose, bakelite. | P. No | 15 | | |
| 13 | 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 | 15 | | |
| 14 | 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. | | | | |
| | (b-i) | 12" Steel Body | P. No | 6 | | |

**Contractor** **Executive Engineer**

| | | | | | | |
|---|---|---|---|---|---|---|
| | (b-ii) | 18" Steel Body | P. No | 0 | | |
| | Data Networking System | | | | | |
| 15 | 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 prelaid 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)(For Data Networking / LAN, Telephone, WIFI & TV) | P. Rft | 3,000 | | |
| 16 | Ch.24/136 (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 | | |
| 17 | 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 | 25 | | |
| | (ii) | 3 Meter Patch Cord | P. No | 5 | | |
| 18 | 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 | 1 | | |

**Contractor** **Executive Engineer**

| | | | | | | |
|---|---|---|---|---|---|---|
| | (ii) | 12 port,250 Watt PoE power | P. No | 1 | | |
| 19 | 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 | | |
| 20 | Ch24/131 (P.196) | Supply, installation and comissioning of Simple type dual shutter face plates having fully populated I/O's complete in all respects. | | | | |
| | (i) | Single I/O (RJ-45 / RJ-11) | P. No | 11 | | |
| | (ii) | Double I/O (RJ11+RJ-45) | P. No | 6 | | |
| | CCTV | | | | | |
| 21 | 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 | 9 | | |
| | a(ii) | Fixed Dome type (2 Mega Pixel) | P.No | 0 | | |
| 22 | Ch.24/116 (P.192) | 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: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**

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|---|---|---|---|---|---|---|
| | (ii) | 16-Channel | P.No | 1 | | |
| 23 | 24/117 P.192 | Supply and isntallation of survelliance grade hard drives (HDD) of specified capacity for CCTV system, complete in all respects. | | | | |
| | iv | 14TB (Tera Bite) | P.No | 1 | | |
| 24 | 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 | 0 | | |
| | (ii) | 12 port,250 Watt PoE power | P.No | 1 | | |
| 25 | 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 prelaid 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)<br>(For CCTV Wiring) | P. Rft | 1,250 | | |
| 26 | 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 | 1 | | |
| 27 | 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 | 9 | | |
| | (ii) | 3 Meter Patch Cord | P. No | 1 | | |

**Contractor** **Executive Engineer**

| | | | | | | |
|---|---|---|---|---|---|---|
| | | SCHEDULE ITEMS-TOTAL AMOUNT (PKR.) | | | | |
| NON-SCHEDULE ITEMS:- | | | | | | |
| | Switch Fittings & Back Boxes | | | | | |
| 28 | NS | Supply, installation, testing & commissioning of following 15/20A, industrial power socket including, face plate, 16 SWG Sheet Steel powerder coated back boxes with earth terminal, recessed in wall, with all accessories, and Technical Specifications "Wiring Accessoeries" complete in all respects. as per specifications | | | | |
| | i) | Five pin IPS 16 Amp | P. No | 0 | | |
| | i) | Three pin IPS 32 Amp | P. No | 0 | | |
| 29 | NS | Supply and installation of 18" x 4" x 4" 16SWG MS Powder coated Technology boxes to be installed as per site requirement having space for isntallation of following outlets<br>01-Universal Switch Socket Outlet (On Utility)<br>02-Universal Switch Socket Outlet (On Utility & UPS)<br>01-RJ-45+RJ-11 Dual I/O Face Plate | P. No | 6 | | |
| | Fitting Fixtures & Fans | | | | | |
| 30 | | Supply at site, installation, testing and comissioning of Light fixtures of following specifications having minimum operational power factor of 0.9, Lumen Efficay of 80 or 100 lumen per Watt (lm/Watt), LED drivers, ballasts, allied accessoires and hanging arrangements, installed as per the choice of architect/engineer incharge, complete in all respects.Approved Manufacturers: Opple / Philips / Osram / GreenLED / Globelight / NVC / approved Eqv. | | | | |
| | N.S | 1x18 Watt LED downlight SMD type. | P. No | 15 | | |
| | N.S | Installation only of owner's supplied Giant Chandilier installed with complete hanging arrangement, complete in all respects. | P.No | 2 | | |
| | N.S | 1x9 Watt LED downlight SMD type. | P. No | 20 | | |

**Contractor** **Executive Engineer**

| | | | | | | |
|---|---|---|---|---|---|---|
| | N.S | 56" Ceiling fan having max power not more than 100W make Pak / Royal / Asia / Approved Eqv. | P.No | 20 | | |
| | N.S | 1x10 Watt LED downlight SMD type. | P.No | 40 | | |
| | N.S | 1x14/20 Watt water tight (IP-68) bulk head wall bracket LED wall light. | P.No | 25 | | |
| | N.S | 1x14 Watt LED wall bracket wall light. | P. No | 5 | | |
| | N.S | 1x12/15 Watt LED downlight SMD type. | P. No | 70 | | |
| | LT Panel | | | | | |
| 31 | | Supply at site, installation, testing and comissioning of LT Distribution boards, complete in all respects as per the technical specifications of the single line diagram | | | | |
| | N.S | DB-GF (Ground Floor) | P. No | 1 | | |
| | N.S | DB-1F (First Floor) | P. No | 1 | | |
| | Fire Alarm System | | | | | |
| 32 | N.S | S & F of Manual Call Stations | P.No | 2 | | |
| 33 | N.S | S & F of Alarm Sounders | P.No | 2 | | |
| 34 | N.S | S & F of conventional (Non Addressable) Smoke detectors | P.No | 14 | | |
| 35 | N.S | S & F of conventional (Non Addressable) Heat detectors | P.No | 1 | | |
| 36 | N.S | S & F of 2 Zone Fire Alarm Control panel | P.No | 1 | | |
| 37 | N.S | Supply and wiring of FA fixtures | Rft | 830 | | |
| 38 | N.S | Commission and Testing of complete Fire Detection system. | P.No | 1 | | |

**Contractor** **Executive Engineer**

| | | | | | | |
|---|---|---|---|---|---|---|
| | Telephone | | | | | |
| 39 | N.S | Supply and install recessed type telephone distribution box suitable for 20 pair including appropriate size 16 SWG sheet steel box with hinged, latched and lockable cover. | P.No | 1 | | |
| 40 | N.S | Supply, Installation, Testing & Commissing of Publix Exchange Telephone Network (EPABX) having 2 trunklines and 15 Extensions with all necessary accessories, complete in all respects. | P.No | 1 | | |
| 41 | N.S | 0.6 mm dia, 20 pair tinned copper conductor PVC/PVC telephone cables in already installed conduits/pipes. | Rft | 350 | | |
| | Split AC Systems | | | | | |
| 42 | N.S | Supply at site, installation, testing and comissioning of 2 Ton Wall Mounted split AC units DC Inverter Controlled designed to operate at ambient temperature of 50 degree celcius, complete with outdoor and indoor unit fixing arrangement, refregirant copper and drain piping, necessary gass filling, complete in all respects. | Job | 2 | | |
| | | | | | **Total** | |
| | | | | | **Grand Total (Electrical Work) (To be Carried at Summary of Cost)** | |

**Contractor** **Executive Engineer**

| EXTERNAL DEVELOPMENT (CIVIL WORKS) | | | | | | |
|---|---|---|---|---|---|---|
| **Item #** | **MRS Ref#** | **Description of Items.** | **Unit** | **Quantity** | **Rate (PKR)** | **Amount (PKR)** |
| **EXTERNAL DEVELOPMENT ROAD, R.C.C. DRAIN & ELECTRICAL TRENCH CIVIL WORKS :** | | | | | | |
| | | SCHEDULE ITEMS: | | | | |
| EX-01 | Ch.3/47(b) (P.33) | SITE PREPARATION FOR CONSTRUCTION: Clearing , grubbing and clearance of light or thick Jungle and removing , complete in all respects as directed by the Engineer-in-charge. | Per Sft | 166,495.00 | | |
| EX-02 | Ch.3/8(i) (P.28) | EARTH WORK: Earthwork excavation in open cutting 5.01 ft. (1.5 m) to 10.0 ft. (3.0 mm) depth for storm water channels, drains, sullage drains in open areas, roads, streets, lanes, including under pinning of walls and shoring to protect existing works, shuttering and timbering the trenches, dressed to designed level and dimensions, trimming, removal of surface water from trenches, back filling and surplus excavated material disposed of and dressed within 100 ft. (30 m) lead:- | Per Cft | 225285.00 | | |
| EX-03 | Ch.3/24(b ii) (P.30) | COMPACTION OF NATURAL GROUND : Compaction of natural Ground with 95% to 100% maximum modified AASHO dry density with dressing and leveling of earth . complete in all respects as per drawings and specification . | Per Sft | 137570.00 | | |
| EX-04 | Ch.3/15(ii)+Ch.3/17+Ch.3/24(P.29 & 30) | EARTH FILLING WITH GHASSO : Filling, watering and ramming earth under floors:-. ii) with new earth excavated from outside, lead upto 15 Mile). Including compaction of earthwork (soft, ordinary or hard soil) :- Mixing, moistening earth to optimum moisture content in layers for compaction, etc. complete. | Per Cft | 205800.00 | | |
| EX-05 | Ch.3/15(i) + Ch.3/24 (P.29 & 30) | EARTH FILLING WITH SURPLUS SOIL: Filling, watering and ramming earth under floors:- with surplus earth from foundation, etc. Including compaction of earthwork (soft, ordinary or hard soil) :- Mixing, moistening earth to optimum moisture content in layers for compaction, etc. complete in all respects. | Per Cft | 30954.00 | | |

**Contractor** **Executive Engineer**

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|---|---|---|---|---|---|---|
| EX-06 | Ch.18/4(a) (P.116) | BASE COARSE OF CRUSHED STONE : Providing and laying BASE COARSE OF CRUSHED STONE AGGREGATES (CLASS B) , making water bound macadam (WBM) with spreading of khaka 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 material, complete in all respect as per drawing and specification | Per Cft | 38500.00 | | |
| EX-07 | Ch.3/17 (P.29) | EXTRA CARRIAGE FOR CRUSHED STONE: 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. UP TO 75 KM. | Per Cft | 38500.00 | | |
| EX-08 | Ch.18/10 (P.118) | PREMIXED BITUMINOUS a) Providing and laying plant premixed bituminous carpet, including compaction and finishing to required camber, grade and density iii) 4% Bitumen | Per Sft | 38500.00 | | |
| EX-07 | Ch.6/5(f) (P.41) | PCC 1:2:4 IN WALKWAYS: 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 | Per Cft. | 15000.00 | | |
| EX-08 | Ch.7/30 (P.57) | SAND FILLING : Supplying and filling sand under floor; or plugging in wells. complete in all respects. | Per Cft | 46200.00 | | |
| EX-09 | Ch.6/5(i) (P.41) | PCC 1:4:8 IN FOUNDATION AND PAVEMENT: 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 1:4:8 | Per Cft | 16971.00 | | |
| EX-10 | Ch. 7/4 (P.52) | BRICK WORK IN FOUNDATION: Pacca brick work in foundation and plinth in:- Ratio 1:5 | Per Cft | 1013.00 | | |
| EX-11 | Ch. 6/2 (P.41) | DRY RAMMED STONE BALLAST: Providing and laying of dry rammed stone ballast, 1½" to 2"( 40 mm to 50 mm) gauge. | Per Cft | 7400.00 | | |

**Contractor** **Executive Engineer**

| | | | | | | |
|---|---|---|---|---|---|---|
| EX-12 | 10/41 (P.72, 73) | TUFF PAVERS :<br>Providing and laying Tuff pavers interlocking tiles, having 7000 PSI, 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 as per drawings and design (Coloured paver). | | | | |
| | c) | 80-mm thick | Per Sft | 17200.00 | | |
| EX-13 | 3/32 (P.31) | FINE DHAKA GRASS:<br>Turfing slopes of banks or lawns with grass sods including ploughing, laying, setting and watering (Turf got from within a distance of 5 miles (8 Km.) and maintenance for 30 days). Complete in all respects. | Per Sft | 91000.00 | | |
| EX-14 | 6/52b-(i) (P.50) | Providing and fixing precast Edge Kerb Stone (6" thick), of 3500 PSI Compressive Strength, embeded in PCC 1:2:4 (one side hunching) over 4" inches thick lean concrete 1:4:8 etc complete in all respect, with Painting 14" high as per drawing and specification, complete in all respects | Per Rft | 5000.00 | | |
| EX-15 | Ch.6/6 a(i-3) & Ch.6/6 a(iii-3) (P.42) | REINFORCED CEMENT CONCRETE WORK IN DRAIN :<br>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.):-<br>(a) (i) Reinforced cement concrete in base & top slab, beams and walls of Drain and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-<br>Type C (nominal mix 1: 2: 4) | | | | |
| | a) | In Drain Bed Foundation | Per Cft | 3275.00 | | |
| | b) | In Walls and Top Slab | Per Cft | 6800.00 | | |
| | c) | In Shed Foundations | Per Cft | 15873.00 | | |
| EX-16 | Ch.6/12 'c) (P.45) | STEEL REINFORCEMENT:<br>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). | | | | |

**Contractor** **Executive Engineer**

| | | | | | | |
|---|---|---|---|---|---|---|
| a) | | a) Deformed bars (Grade-60) | Per Kg | 25,134.24 | | |
| EX-17 | 25/10 + 25/11 (P.203) | M.S STEEL GRATING: Supply, fabrication and erection in position M.S angle iron, flat bar Steel grating with 12mm dia Bolt @ 900 mm c/c, on drain complete in all respect as per drawing and specificatin. | Per Kg | 12000.00 | | |
| EX-18 | 13/5d (P.93) | ENAMEL PAINT: Preparing surface and painting guard bars, gates of iron bars, gratings, railing (including standards, braces, etc.) and in similar open work:- 02 Coats including one priming coat . | Per Sft. | 24000.00 | | |
| EX-19 | 26/45 ii) (P.215) | CAR PARKING SHED: Supply and Erection of 10 ft high Cantiliver type Car Parking Shed consisting of 3 mm thick fiber glass sheet roof fixed / riveted with moulded curved frame comprising of 1-1/2"x1-1/2" 16-SWG MSbox placed @ 2 ft C/C both sides and 1-1/2"x3" M.S box 16-SWG at front and back side welded on cantillever arch type MS pipe 3" dia arms welded with 3/8" thick and 8 " dia Main Post duly welded with 1/2" thick 1.5'x1.5' base plate and 4 no stiffeners of 1/2" thick MS sheet embeded in PCC 2'x2'x3' with 18" long nut bolts 1"dia i/c cost of foundation, cutting straightening assembling, bending as per drawing, welding / grinding of joints and painting three coats complete in all respect as approved by the Engineer Incharge.:- (ii) Both side Cantilever . | Per Sft. | 18200.00 | | |
| EX-20 | 26/45 i) (P.215) | BUS PARKING SHED: Supply and Erection of 10 ft high Cantiliver type Car Parking Shed consisting of 3 mm thick fiber glass sheet roof fixed / riveted with moulded curved frame comprising of 1-1/2"x1-1/2" 16-SWG MSbox placed @ 2 ft C/C both sides and 1-1/2"x3" M.S box 16-SWG at front and back side welded on cantillever arch type MS pipe 3" dia arms welded with 3/8" thick and 8 " dia Main Post duly welded with 1/2" thick 1.5'x1.5' base plate and 4 no stiffeners of 1/2" thick MS sheet embeded in PCC 2'x2'x3' with 18" long nut bolts 1"dia i/c cost of foundation, cutting straightening assembling, bending as per drawing, welding / grinding of joints and painting three coats complete in all respect as approved by the Engineer Incharge.:- (i) One side Cantilever . | Per Sft. | 15600.00 | | |

**Contractor** **Executive Engineer**

| | | | | | | |
|---|---|---|---|---|---|---|
| EX-21 | 26/45 ii) (P.215) | BUS PARKING SHED: Supply and Erection of 10 ft high Cantiliver type Car Parking Shed consisting of 3 mm thick fiber glass sheet roof fixed / riveted with moulded curved frame comprising of 1-1/2"x1-1/2" 16-SWG MSbox placed @ 2 ft C/C both sides and 1-1/2"x3" M.S box 16-SWG at front and back side welded on cantillever arch type MS pipe 3" dia arms welded with 3/8" thick and 8 " dia Main Post duly welded with 1/2" thick 1.5'x1.5' base plate and 4 no stiffeners of 1/2" thick MS sheet embeded in PCC 2'x2'x3' with 18" long nut bolts 1"dia i/c cost of foundation,cutting straightening assembling, bending as per drawing, welding / grinding of joints and painting three coats complete in all respect as approved by the Engineer Incharge.:- (ii) Both side Cantilever . | Per Sft. | 17160.00 | | |
| EX-22 | 25/36) (P.205) | Providing and fixing collapsible gate made of 2"x2"x"¼ (50x50x6 mm) tee iron at top and bottom, channel iron verticals ¾"x¼"x¼"x1/8" (20x6x6x3 mm) at 3" (75 mm) to 5" (125 mm) centre to centre (approximate) and flat iron crosses 3"x3/16" (75x5 mm), and best quality rollers at bottom of 3" (75 mm) diameter including holdfasts, handles 12" (300 mm) long of ¾"x¼"x¼"x1/8" (20x6x6x3 mm) channel iron, locking arrangement inside and outside, painting 3 coats of black Japan enameled, complete in working order. | Per Sft. | 400.00 | | |
| EX-23 | NS-1 | P/L and fixing of road barrier as per design including of foundation for barrier's posts, MS Horizental Beam of barrier with its premiry barrier function, 6" dia of GI pipe as vertical posts as per drawings, Reflectors, End treatment to reduced the impect of a vehical hitting and surface treatment complete in all respect as directed by the Engineer Incharge. | LS | 2.00 | | |
| | | | | | **Total** | |
| | | | | | **Grand Total (Civil Work) (To be Carried at Summary of Cost)** | |

**Contractor** **Executive Engineer**

| ELECTRICAL & ALLIED WORKS (EXTERNAL WORKS) | | | | | | |
|---|---|---|---|---|---|---|
| **Sr. #** | **MRS Ref#** | **Description of work** | **Unit** | **Quantity** | **Rate** | **Amount** |
| SCHEDULE ITEMS:- 1st Biannual 2023, Faisalabad. | | | | | | |
| 1 | Ch.24/3( P.168) | Supply and erection of PVC pipe for wiring recessed in walls, including clamps inspection boxes, pull boxes, bends, tees, repairing surface, etc., complete with all specials:- | | | | |
| | (ii) | 20 mm i/d | P. Rft | 0 | | |
| | (iii) | 25 mm i/d | P. Rft | 3,000 | | |
| | (iv) | 32 mm i/d | P. Rft | 0 | | |
| | (v) | 40 mm i/d | P. Rft | 5,000 | | |
| 2 | Ch.24/6( P.168) | Supply and erection of PVC pipe for wiring recessed in walls, including clamps inspection boxes, pull boxes, bends, tees, repairing surface, etc., complete with all specials:- | | | | |
| | (i) | 50 mm i/d | P. Rft | 1,000 | | |
| | (ii) | 100 mm i/d | P. Rft | 50 | | |
| 3 | Ch.24/10 (a)(P.169 ) | Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe /M.S. conduit /G.I pipe /wooden strip batten/ wooden casing an capping/ G.I. wire/ trenches (rate for cables only):- 250/440 volts, PVC insulated: | | | | |
| | (i) | 3/0.74 mm (3/0.029") | P. Rft | 11,100 | | |
| | (iii) | 7/0.74 mm (7/0.029") | P. Rft | 14,000 | | |

**Contractor** **Executive Engineer**

| | | | | | | |
|---|---|---|---|---|---|---|
| | (iv) | 7/0.91 mm (7/0.036") | P. Rft | 8,000 | | |
| | (v) | 7/1.12 mm (7/0.044") | P. Rft | 200 | | |
| 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:- | | | | |
| | (vi) | 10 mm (7/0.052") | P. Rft | 1,000 | | |
| | (vii) | 16 mm (7/0.064") | P. Rft | 0 | | |
| | (viii) | 25 mm (19/0.052") | P. Rft | 0 | | |
| | (ix) | 35 mm sq (19/0.064") | P. Rft | 0 | | |
| | x) | 50 mm sq (19/0.072") | P. Rft | 100 | | |
| | xi) | 70 mm sq (19/0.083") | P. Rft | 100 | | |
| 5 | Ch.24/10 (C)(P.169) | Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe /M.S. conduit /G.I pipe /wooden strip batten/ wooden casing an capping/ G.I. wire/ trenches (rate for cables only):- 450/750 volts, PVC insulated: | | | | |
| | (vi) | 10 mm (7/0.052") | P. Rft | 1,000 | | |
| | (vii) | 16 mm (7/0.064") | P. Rft | 0 | | |
| | (viii) | 25 mm (19/0.052") | P. Rft | 60 | | |
| | (ix) | 35 mm (19/0.064") | P. Rft | 300 | | |
| 6 | Ch.24/158 P.201 | Supply at site, installation, testing and termination of 8.7/15KV MV cable of following sizes | | | | |

**Contractor** **Executive Engineer**

| | | | | | | |
|---|---|---|---|---|---|---|
| | i) | 3C-50mm sq Al/XLPE/SWA/PVC 8.7/15KV | P.Rft | 650 | | |
| | Switch Plates and Cable tray | | | | | |
| 7 | Ch.24/14 (P.172) | 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 | 35 | | |
| | ii) | 17.5 x 10 cm (7"x4") | P. No | 5 | | |
| 8 | Ch.24/10 3 (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 | 2 | | |
| | (ii) | 02 Gange | P. No | 5 | | |
| | (iii) | 03 Gange | P. No | 15 | | |
| | (iv) | Three pin Light Plug 10/13 Amp | P. No | 15 | | |
| | (viii) | Three pin Power Plug 15-32 Amp | P. No | 1 | | |
| | (v) | Telephone / TV/Datacable socket | P. No | 3 | | |
| | (vi) | Fan Dimmer | P. No | 12 | | |

**Contractor** **Executive Engineer**

| | | | | | | |
|---|---|---|---|---|---|---|
| | (vii) | bell push | P. No | 1 | | |
| 9 | Ch.24/98 (P.188) | 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) | 4" x 4" 16 SWG | P.Rft | 50 | | |
| | ii) | 9" x 4" 16 SWG | P.Rft | 100 | | |
| | Fitting Fixtures & Fans | | | | | |
| 10 | 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 | 1 | | |
| 11 | 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. | | | | |
| | (b-i) | 12" Steel Body | P. No | 1 | | |
| | (b-ii) | 18" Steel Body | P. No | 4 | | |
| | TRANSFORMER | | | | | |

**Contractor** **Executive Engineer**

| | | | | | | |
|---|---|---|---|---|---|---|
| 12 | 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 | | | | |
| | (v) | 100 KVA | P.No | 1 | | |
| | CCTV | | | | | |
| 13 | 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 | 16 | | |
| | a(ii) | Fixed Dome type (2 Mega Pixel) | P.No | 0 | | |
| 14 | Ch.24/116 (P.192) | 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: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. | | | | |
| | (ii) | 16-Channel | P.No | 1 | | |
| 15 | 24/117 P.192 | Supply and isntallation of survelliance grade hard drives (HDD) of specified capacity for CCTV system, complete in all respects. | | | | |
| | (iv) | 14TB (Tera Bite) | P.No | 1 | | |

**Contractor** **Executive Engineer**

| | | | | | | |
|---|---|---|---|---|---|---|
| 16 | 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 | 1 | | |
| | (ii) | 12 port,250 Watt PoE power | P.No | 0 | | |
| 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 prelaid 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)<br>(For CCTV Wiring) | P. Rft | 2,500 | | |
| 18 | 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 | 1 | | |
| 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 | 16 | | |
| | (ii) | 3 Meter Patch Cord | P. No | 1 | | |
| | EXTERNAL LIGHTING & ELECTRICAL POLES | | | | | |

**Contractor** **Executive Engineer**

| | | | | | | |
|---|---|---|---|---|---|---|
| 20 | Ch.24/68 (P.179) | Supplying, installation testing and commissioning of Octagonal shape electric street light pole, made of hot dipped 4.5mm thick (7SWG) galvanized steel, tappered from 225mm at bottom to 100mm at top, with 1500mmx60mmx4mm thick dia. arm for luminaire installation, duly G.I.welded with 470x470x20mm base plate with the help of 4no triangular stiffeners 100x350x20mm of GI sheet, with built in junction box with shutter, i/c the cost of nuts &J-rag bolts, duly fixed in prelaid concrete foundation, foundation will be paid additionally as approved and directed by the Engineer In charge. | | | | |
| | a(i) | Single Arm 10 Meter | P.No | 18 | | |
| | b(i) | Double Arm 10 Meter | P.No | 30 | | |
| 21 | Ch.24/67 (P.178) | Manufacture and erection of galvanized angle iron lattice steel structure pole 37 ft. (11.25 m) long 30 ft. (9 m) above ground level), 34" square (850 mm) at base, 13.75" (35 mm) square at top, for electric distribution line, using 2"x2"x5/32" (50x50x4mm) high tensile steel angle iron legs, and 1-3/8"x1-3/8"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. | P.No | 3 | | |
| 22 | Ch.24/69 (P.179) | Supplying, installationand commissioning of LED Cobra-head Luminaries of specified wattage and lumen sconforming to IP66 & IK08 or above Philips/Osram/Thornorequivalent with corrosion resistant diecasted Aluminum housing, silicon gasket in special groove, UV stable & scratch resistant synthetic materials, thermally hardened glass complete with LED Chip (PhilipsLumiled/Cree/ Nichia/Osrammakeor equivalent), programmable LED driver (Harvard/TCI/Lumotech/Philips/VOSSLOHSchwabe/ Lightechmakeorequivalent), 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. | | | | |
| | a(v) | 120 Watt with 16800 Lumens (140 Lm/Watt) | P.No | 78 | | |
| | | SCHEDULE ITEMS-TOTAL AMOUNT (PKR.) | | | | |

**Contractor** **Executive Engineer**

| | | | | | | |
|---|---|---|---|---|---|---|
| | NON-SCHEDULE ITEMS:- | | | | | |
| | Switch Fittings & Back Boxes | | | | | |
| 23 | NS | Supply, installation, testing & commissioning of following 15/20A, industrial power socket including, face plate, 16 SWG Sheet Steel powerder coated back boxes with earth terminal, recessed in wall, with all accessories, and Technical Specifications "Wiring Accessoeries" complete in all respects. as per specifications | | | | |
| | i) | Five pin IPS 16 Amp | P. No | 2 | | |
| | i) | Three pin IPS 32 Amp | P. No | 0 | | |
| 24 | NS | Supply and installation of 18" x 4" x 4" 16SWG MS Powder coated Technology boxes to be installed as per site requirement having space for isntallation of following outlets<br>01-Universal Switch Socket Outlet (On Utility)<br>02-Universal Switch Socket Outlet (On Utility & UPS)<br>01-RJ-45+RJ-11 Dual I/O Face Plate | P. No | 6 | | |
| 25 | NS | One way Gange Switch Large | | | | |
| | (i) | 04 Gange | P. No | 0 | | |
| | (ii) | 05 Gange | P. No | 0 | | |
| | (iii) | 06 Gange | P. No | 0 | | |
| | Fitting Fixtures & Fans | | | | | |
| 26 | | Supply at site, installation, testing and comissioning of Light fixtures of following specifications having minimum operational power factor of 0.9, Lumen Efficay of 80 or 100 lumen per Watt (lm/Watt), LED drivers, ballasts, allied accessoires and hanging arrangements, installed as per the choice of architect/engineer incharge, complete in all respects.<br>Approved Manufacturers: Opple / Philips / Osram / GreenLED / Globelight / NVC / approved Eqv. | | | | |

**Contractor** **Executive Engineer**

| | | | | | | |
|---|---|---|---|---|---|---|
| | N.S | Plastic Body Wall bracket fan with complete fixing arrangement. | P. No | 13 | | |
| | N.S | 1x18 Watt LED tube light 4 feet long. | P.No | 30 | | |
| | N.S | 1x9 Watt LED downlight SMD type. | P. No | 5 | | |
| | N.S | 1x10 Watt LED downlight SMD type. | P.No | 5 | | |
| | N.S | 1x14/20 Watt water tight (IP-68) bulk head wall bracket LED wall light. | P.No | 3 | | |
| | LT Panel | | | | | |
| 27 | N.S | Supply at site, installation, testing and comissioning of LT panel boards, complete in all respects as per the technical specifications of the single line diagram | | | | |
| | a | LTPB-EXT | P. No | 1 | | |
| 28 | N.S | Supply at site, installation, testing and comissioning of LT Distribution boards, complete in all respects as per the technical specifications of the single line diagram | P. No | | | |
| | a | DB-SS | P. No | 1 | | |
| | b | DB-WS | P. No | 1 | | |
| | c | Feeder Pillar | P. No | 1 | | |
| | Earthing | | | | | |
| 29 | NSI | Supply, Installation, Testing and commissioning of following earthing system including all accessories complete in all respects and as mentioned in Specification | | | | |
| | | Providing and installtation of 99.99% pure copper Earthing Veractor cone / spike size 2" thick, 12" long as shown in drawings or 3/4" dia and 10 ft long copper rod as earth electrode lowered 100' or upto permanent water level including the cost of boring and lowering of rod, complete with 2x70mm2 stranded bare copper conductor running from earth cone to surface / ECP laid in 2" dia EL Class GI conduit, complete with water cap, manhole RCC cover, as shown in drawings, complete in all respects. | P.No | 5 | | |

**Contractor** **Executive Engineer**

| | | | | | | |
|---|---|---|---|---|---|---|
| | | Providing and installtation of 99.99% pure copper Earthing Veractor cone / spike size 2" thick, 12" long as shown in drawings or 3/4" dia and 10 ft long copper rod as earth electrode lowered 100' or upto permanent water level including the cost of boring and lowering of rod, complete with 2x25mm2 stranded bare copper conductor running from earth cone to surface / ECP laid in 2" dia EL Class GI conduit, complete with water cap, manhole RCC cover, as shown in drawings, complete in all respects. | P.No | 1 | | |
| | | supply and installation of 9"x2"x1/2" Earth Connecting Copper Plate (ECP) with brass nuts and bolts fitted on MS bracket installed as per site conditions, complete in all respects. | P.No | 6 | | |
| | Diesel Generator | | | | | |
| 30 | NSI | Supply, installation, testing and commissioning of New diesel generator set complying with ISO-8528 parameters class-G2 parameters, complete with Water proof canopy duly powder coated and having sound level of 75~80dB at 1 meter (100% Loading), RCC foundation Pad, complete in all respects. | | | | |
| | | 75KVA PRP Diesel Generator operating at 400VAC at 100% Load | Nos | 1 | | |
| | | | | | TOTAL AMOUNT (PKR.) | |
| | | | | | **Grand Total (Electrical Work) (To be Carried at Summary of Cost)** | |

**Contractor** **Executive Engineer**

## Public Health Work (External Development)

| Item # | MRS.# | WORK DESCRIPTION | Unit | Quantity | Rate (PKR) | Amount (PKR) |
|---|---|---|---|---|---|---|
| **PLUMBING, SANITARY, INSTALLATION GAS FITTINGS SEWERAGE TUBE WELL & WATER SUPPLY** | | | | | | |
| 1 | Ch.19/32 (P.128) | Providing and fitting, chromium plated or brass oxidised, swan neck cock 15 mm (½") dia. | | | | |
| | (ii) | two way | Each | 1 | | |
| 2 | Ch.19/55 (P.132) | 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 glass wool, imported thermostat i/c electric rod, safety valve (Ambassador / Canon) i/c cost of accessories & making connection complete in all respect as approved and directed by Engineer Incharge. | | | | |
| | (i) | 15 Gal capacity | Each | 1 | | |
| 3 | Ch.19/52 (P.132) | 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. | | | | |
| | (i) | 3 No Tee Stop Cock (set) | Each | 1.00 | | |
| | (ii) | Lever Type Basin Mixer | Each | 1.00 | | |
| | (iii) | Double Bib Cock | Each | 1.00 | | |
| | (iv) | Open Type Wall Shower | Each | 1.00 | | |
| | (v) | Muslim shower | Each | 1.00 | | |
| | (vi) | Waste Coupling | Each | 1.00 | | |
| | (vii) | Bottle Trap | Each | 1.00 | | |
| | | | | | **Total** | |

**Contractor** **Executive Engineer**

| | | | | | | |
|---|---|---|---|---|---|---|
| A-SANITARY INSTALLATION | | | | | | |
| 4 | Ch.19/4 (i) (P.125) | Providing and fitting glazed earthen ware coloured water closet, squatter type (Orisa pattern), combined with foot rest. | Each | 1.00 | | |
| 5 | Ch.19/7 (v) (P.126) | Providing and fitting glazed earthen ware wash hand basin 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc.<br>Under Counter Vanity Basin | Each | 1.00 | | |
| 6 | Ch.19/13 (i) (P.126) | Providing and fitting coloured plastic made low down flushing cistern 13.63 litre (3 gallons) capacity, including bracket set, copper connection, etc. complete. | Each | 1.00 | | |
| 7 | Ch.19/16 (P.126) | Providing and fixing, chromium plated soap dish. | Each | 1.00 | | |
| 8 | Ch.19/20 (P.127) | Providing and fixing looking glass 55x40 cm (22"x16") size, and 5 mm thick, first quality. | Each | 1.00 | | |
| 9 | Ch.19/47( P.130) | 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 Engineer Incharge. | | | | |
| | | b) Type (SDR 32.5/SN-8) | | | | |
| | (iii) | 2"(60 mm) | Per Rft | 12.00 | | |
| | (iv) | 3"(85 mm ) | Per Rft | 18.00 | | |
| | (v) | 4"(110 mm) | Per Rft | 96.00 | | |

**Contractor** **Executive Engineer**

| | | | | | | |
|---|---|---|---|---|---|---|
| 10 | Ch.19/49 (P.131) | 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 | | | | |
| | | a) P-Trap | | | | |
| | (i) | 4" dia | Each | 1.00 | | |
| | (ii) | 3" dia | Each | 1.00 | | |
| | | | | | TOTAL | |
| | GAS WORK | | | | | |
| 11 | Ch.19/44 (P.130) | Providing and fixing, brass gas cock:- | | | | |
| | b) | 20 mm (¾") dia | Each | 1.00 | | |
| 12 | Ch.19/50 (P.131) | Providing, laying, testing and commissioning underground Yellow Polyethelene (MDPE) gas pipe tubing of required IPS (Iron Pipe Size) in the trenches , made of Dadex/ Popular / Beta or equivelant, for Gas supply i/c the cost of solvent and specials complete as approved and directed by the Engineer Incharge. | | | | |
| | | SDR-11 | | | | |
| | (iv) | 1-1/4" | Per Rft | 154.00 | | |
| | | | | | **Total** | |

**Contractor** **Executive Engineer**

| SEWERAGE | | | | | | |
|---|---|---|---|---|---|---|
| **Item #** | **MRS.#** | **WORK DESCRIPTION** | **Unit** | **Quantity** | **Rate (PKR)** | **Amount (PKR)** |
| | SEWERAGE | | | | | |
| 1 | Ch.21/1 (P.136) | 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. | | | | |
| | (iii) | 150 mm (6:) i/d | Rft | 356.00 | | |
| 2 | Ch.21/7 (P.138) + Ch.19/40 (P.129) | Constructing gully grating chamber, 12"x12", ( 300x300 mm) complete in all respects:<br>Supply and fitting of cast iron manhole cover with frame, etc. complete.<br>i) 30 cm (12") dia | Each | 2.00 | | |
| 3 | Ch.21/13 (P.139) | Providing and fixing 1¼"x1¼"x3/16" (31x31x5 mm) angle iron step, in manhole chambers, including carriage and setting the same in work to correct lines and levels. | Each | 15 | | |
| | | | | | | |

**Contractor** **Executive Engineer**

| TUBE WELL & WATER SUPPLY | | | | | | |
|---|---|---|---|---|---|---|
| **Item #** | **MRS.#** | **WORK DESCRIPTION** | **Unit** | **Quantity** | **Rate (PKR)** | **Amount (PKR)** |
| | | WATER SUPPLY | | | | |
| 1 | Ch.23/3 (P.144) | Boring for tubewell in all types of soil except shingle, gravel & rock, from a depth of 200.1 ft. to 300 ft. (60 to 90 m) below ground level, including sinking and withdrawing of casing pipe, complete:- | | | | |
| | b) | 6" (150 mm) i/d | Per Rft | 300 | | |
| 2 | Ch.23/7 (P.145) | Providing strong substantially built box of deodar wood 4'x2½'x9" (1200x750x225 mm), with compartments, lock and locking arrangement, for preserving samples of strata from bore hole. | Job for Complete Bore | 1 | | |
| | Ch.23/8 (P.145) | Furnishing sample of water from bore hole. | Per set of 2 bottles | 1 | | |
| 3 | Ch.23/12 (P.146) | Providing and installing P.V.C. strainer B.S.S. Class `D' ,in tubewell bore hole, including sockets and solvent, etc.complete:- | | | | |
| | e) | 4" i/d (100 mm) | Per Rft | 100 | | |
| 4 | Ch.23/14 (P.147) | Providing and installing P.V.C. Bail/End plug, in tubewell bore hole:- | | | | |
| | ii) | 4" i/d (100 mm) | Each | 2 | | |
| 5 | Ch.23/16 (P.148) | 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. | | | | |
| | b) | 4" i/d (100 mm) | Per Rft | 100 | | |
| 6 | Ch.23/19 (P.149) | Shrouding with graded pea gravel 3/8" to 1/8" (10 to 3 mm), around tubewell in bore hole | Per cft | 100 | | |

**Contractor** **Executive Engineer**

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|---|---|---|---|---|---|---|
| 7 | Ch.23/27 (P.151) | 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 | 300 | | |
| 8 | Ch.23/47 (P.159) | 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). | | | | |
| | | b) PN-20 pipe | | | | |
| | (ii) | (3/4") 25 mm | Per Rft | 48 | | |
| | (iv) | (1-1/4") 40 mm | Per Rft | 543 | | |
| 9 | Ch.23/52 (P.162) | Providing and fixing heavy duty Gate valve of specified diameter and material for pressure rating PN-16 mde of Crane (USA), Hatersly (UK) or Scon (Pakistan) i/c the cost of all accessories flanges,nut/bolt and gaskit where required complete in all respect as approved and directed by the Engineer Incharge. | | | | |
| | | (b) Flange Ended Ductile I ron Valve | | | | |
| | (ix) | 2" dia | Each | 2 | | |
| | (xi) | 1½" dia | Each | 1 | | |
| | | | | | **TOTAL** | |
| | | | | | **Grand Total (Public Health Work) (To be Carried at Summary of Cost)** | |

**Contractor** **Executive Engineer**