



TENDER DOCUMENT

Up-Dating the Seminar Library of Chemical Engineering
Department of MUET, Jamshoro.

FROM
EXECUTIVE ENGINEER

Instructions to Bidders/ Procuring Agencies.

General Rules and Directions for the Guidance of Contractors.

This section of the bidding documents should provide the information necessary for bidders to prepare responsive bids, in accordance with the requirements of the Procuring Agency. It should also give information on bid submission, opening and evaluation, and on the award of contract.

Matters governing the performance of the Contract or payments under the Contract, or matters affecting the risks, rights, and obligations of the parties under the Contract are included as Conditions of Contract and *Contract Data*.

The *Instructions to Bidders* will not be part of the Contract and will cease to have effect once the contract is signed.

1. All work proposed to be executed by contract shall be notified in a form of Notice Inviting Tender (NIT)/Invitation for Bid (IFB) hoisted on website of Authority and Procuring Agency and also in printed media where ever required as per rules.

NIT must state the description of the work, dates, time and place of issuing, submission, opening of bids, completion time, cost of bidding document and bid security either in lump sum or percentage of Estimated Cost/Bid Cost. The interested bidder must have valid NTN also.

2. Content of Bidding Documents must include but not limited to: Conditions of contract, Contract Data, specifications or its reference, Bill of Quantities containing description of items with scheduled/item rates with premium to be filled in form of percentage above/ below or on item rates to be quoted, Form of Agreement and drawings.

3. **Fixed Price Contracts:** The Bid prices and rates are fixed during currency of contract and under no circumstance shall any contractor be entitled to claim enhanced rates for any item in this contract.

4. The Procuring Agency shall have right of rejecting all or any of the tenders as per provisions of SPP Rules 2010.

5. **Conditional Offer:** Any person who submits a tender shall fill up the usual printed form stating at what percentage above or below on the rates specified in Bill of Quantities for items of work to be carried out: he is willing to undertake the work and also quote the rates for those items which are based on market rates. Only one rate of such percentage, on all the Scheduled Rates shall be framed. Tenders, which propose any alternative in the works specified in the said form of invitation to tender or in the time allowed for carrying out the work, or which contain any other conditions, will be liable to rejection. No printed form of tender shall include a tender for more than one work, but if contractor wish to tender for two or more works, they shall submit a separate tender for each.

The envelope containing the tender documents shall refer the name and number of the work.

6. All works shall be measured by standard instruments according to the rules.

7. Bidders shall provide evidence of their eligibility as and when requested by the Procuring Agency.
8. Any bid received by the Agency after the deadline for submission of bids shall be rejected and returned unopened to the bidder.
9. Prior to the detailed evaluation of bids, the Procuring Agency will determine whether the bidder fulfills all codal requirements of eligibility criteria given in the tender notice such as registration with tax authorities, registration with PEC (where applicable), turnover statement, experience statement, and any other condition mentioned in the NIT and bidding document. If the bidder does not fulfill any of these conditions, it shall not be evaluated further.
10. Bid without bid security of required amount and prescribed form shall be rejected.
11. Bids determined to be substantially responsive shall be checked for any arithmetic errors. Arithmetical errors shall be rectified on the following basis;
 - (A) **In case of schedule rates**, the amount of percentage quoted above or below will be checked and added or subtracted from amount of bill of quantities to arrive the final bid cost.
 - (B) **In case of item rates**, .If there is a discrepancy between the unit rate and the total cost that is obtained by multiplying the unit rate and quantity, the unit rate shall prevail and the total cost will be corrected unless in the opinion of the Agency there is an obvious misplacement of the decimal point in the unit rate, in which case the total cost as quoted will govern and the unit rate corrected. If there is a discrepancy between the total bid amount and the sum of total costs, the sum of the total costs shall prevail and the total bid amount shall be corrected.
 - (C) Where there is a discrepancy between the amounts in figures and in words, the amount in words will govern.

BIDDING DATA

(This section should be filled in by the Engineer/Procuring Agency before issuance of the Bidding Documents).

- a) Name & Address of the procuring agency. : Mehran University of Engg: & Technology, Jamshoro.
- b) Brief Description of Works : **Up-Dating the Seminar Library of Chemical Engineering Department of MUET, Jamshoro.**
- c) Estimated Cost : Rs. 833,231.00
- d) Amount of Bid Security : **2%** (Rs.16,665.00.)
- e) Period of Bid Validity : **90 days.**
- f) Amount of Bid Security : **10%** (Rs. 83,323.00 2% at the time of Bid Submission and 8% deductible from the running bills).
- g) Percentage if any, to be deducted from bill : **8%** (Rs.66,658.00).
- h) Deadline of submission of Bids along with time : 25-02-2015 upto 12.00 (noon)
- I) Venue, Date & Time of Bid opening : Office of Executive Engineer(m) 25-02-2015 at 12.30 (PM)
- j) Time for Completion from written order of commence : 03 (three) Months.
- k) Liquidity damages : ----- (05% of Estimated cost or Bid cost)
- l) Stamp duty
0.30% or notified by the Govt. of Sindh, will be paid by successful bidder as stamp duty.
- m) Deposit Receipt No: Date: Amount:

Conditions of Contract

Clause – 1: Commencement & Completion Dates of work. The contractor shall not enter upon or commence any portion or work except with the written authority and instructions of the Engineer-in-charge or of in subordinate-in-charge of the work. Failing such authority the contractor shall have no claim to ask for measurements of or payment for work.

The contractor shall proceed with the works with due expedition and without delay and complete the works in the time allowed for carrying out the work as entered in the tender shall be strictly observed by the contractor and shall reckoned from the date on which the order to commence work is given to the contractor. And further to ensure good progress during the execution of the work, contractor shall be bound, in all in which the time allowed for completion of any work exceeds one month, to achieve progress on the prorated basis.

Clause – 2: Liquidated Damages. The contractor shall pay liquidated damages to the Agency at the rate per day stated in the bidding data for each day that the completion date is later than the Intended completion date; the amount of liquidated damage paid by the contractor to the Agency shall not exceed 10 per cent of the contract price. Agency may deduct liquidated damages from payments due to the contractor. Payment of liquidated damages does not affect the contractor's liabilities.

Clause – 3: Termination of the Contract.

- (A) Procuring Agency/Executive Engineer may terminate the contract if either of the following conditions exists:-
- (i) contractor causes a breach of any clause of the Contract;
 - (ii) the progress of any particular portion of the work is unsatisfactory and notice of 10 days has expired;
 - (iii) in the case of abandonment of the work owing to the serious illness or death of the contractor or any other cause.
 - (iv) contractor can also request for termination of contract if a payment certified by the Engineer is not paid to the contractor within 60 days of the date of the submission of the bill;
- (B) The Executive Engineer/Procuring Agency has power to adopt any of the following courses as may deem fit:-
- (i) to forfeit the security deposit available except conditions mentioned at A (iii) and (iv) above;
 - (ii) to finalize the work by measuring the work done by the contractor.
- (C) In the event of any of the above courses being adopted by the Executive Engineer/Procuring Agency, the contractor shall have:-
- (i) no claim to compensation for any loss sustained by him by reason of his having purchased or procured any materials, or entered into any engagements, or made any advances on account of, or with a view to the execution of the work or the performance of the contract,

- (ii) however, the contractor can claim for the work done at site duly certified by the executive engineer in writing regarding the performance of such work and has not been paid.

Procuring Agency/Engineer may invite fresh bids for remaining work.

Clause 4: Possession of the site and claims for compensation for delay. The Engineer shall give possession of all parts of the site to the contractor. If possession of site is not given by the date stated in the contract data, no compensation shall be allowed for any delay caused in starting of the work on account of any acquisition of land, water standing in borrow pits/ compartments or in according sanction to estimates. In such case, either date of commencement will be changed or period of completion is to be extended accordingly.

Clause –5: Extension of Intended Completion Date. The Procuring Agency either at its own initiatives before the date of completion or on desire of the contractor may extend the intended completion date, if an event (which hinders the execution of contract) occurs or a variation order is issued which makes it impossible to complete the work by the intended completion date for such period as he may think necessary or proper. The decision of the Executive Engineer in this matter shall be final; where time has been extended under this or any other clause of this agreement, the date for completion of the work shall be the date fixed by the order giving the extension or by the aggregate of all such orders, made under this agreement. When time has been extended as aforesaid, it shall continue to be the essence of the contract and all clauses of the contract shall continue to be operative during the extended period.

Clause –6: Specifications. The contractor shall execute the whole and every part of the work in the most substantial and work-man-like manner and both as regards materials and all other matters in strict accordance with the specifications lodged in the office of the Executive Engineer and initialed by the parties, the said specification being a part of the contract. The contractor shall also confirm exactly, fully and faithfully to the designs, drawing, and instructions in writing relating to the work signed by the Engineer-in-charge and lodge in his office and to which the contractor shall be entitled to have access at such office or on the site of work for the purpose of inspection during office hours and the contractor shall, if he so requires, be entitled at his own expense to make or cause to be made copies of the specifications, and of all such designs, drawings, and instructions as aforesaid.

Clause – 7: Payments.

- (A) **Interim/Running Bill.** A bill shall be submitted by the contractor as frequently as the progress of the work may justify for all work executed and not included in any previous bill at least once in a month and the Engineer-in-charge shall take or cause to be taken the requisite measurements for the purpose of having the same verified and the claim, as far as admissible, adjusted, if possible before the expiry of ten days from the presentation of the bill, at any time depute a subordinate to measure up the said work in the presence of the contractor or his authorized agent, whose countersignature to the measurement list will be sufficient to warrant and the Engineer-in-charge may prepare a bill from such list which shall be binding on the contractor in all respects.

The Engineer /Procuring Agency shall pass/certify the amount to be paid to the contractor, which he considers due and payable in respect thereof, subject to deduction

of security deposit, advance payment if any made to him and taxes. All such intermediate payment shall be regarded as payments by way of advance against the final payment only and not as payments for work actually done and completed, and shall not preclude the Engineer-in-charge from recoveries from final bill and rectification of defects and unsatisfactory items of works pointed out to him during defect liability period.

- (B) **The Final Bill.** A bill shall be submitted by the contractor within one month of the date fixed for the completion of the work otherwise Engineer-in-charge's certificate of the measurements and of the total amount payable for the works shall be final and binding on all parties.

Clause – 8: Reduced Rates. In cases where the items of work are not accepted as so completed, the Engineer-in-charge may make payment on account of such items at such reduced rates as he may consider reasonable in the preparation of final or on running account bills with reasons recorded in writing.

Clause – 9: Issuance of Variation and Repeat Orders.

- (A) Agency may issue a Variation Order for procurement of works, physical services from the original contractor to cover any increase or decrease in quantities, including the introduction of new work items that are either due to change of plans, design or alignment to suit actual field conditions, within the general scope and physical boundaries of the contract.
- (B) Contractor shall not perform a variation until the Procuring Agency has authorized the variation in writing subject to the limit not exceeding the contract cost by of 15% on the same conditions in all respects on which he agreed to do them in the work, and at the same rates, as are specified in the tender for the main work. The contractor has no right to claim for compensation by reason of alterations or curtailment of the work.
- (C) In case the nature of the work in the variation does not correspond with items in the Bill of Quantities, the quotation by the contractor is to be in the form of new rates for the relevant items of work, and if the Engineer-in-charge is satisfied that the rate quoted is within the rate worked out by him on detailed rate analysis, and then only he shall allow him that rate after approval from higher authority.
- (D) The time for the completion of the work shall be extended in the proportion that the additional work bear to the original contact work.
- (E) In case of quantities of work executed result the Initial Contract Price to be exceeded by more than 15%, and then Engineer can adjust the rates for those quantities causing excess the cost of contract beyond 15% after approval of Superintending Engineer / higher authority..
- (F) **Repeat Order:** Any cumulative variation, beyond the 15% of initial contract amount, shall be subject of another contract to be tendered out if the works are separable from the original contract.

Clause-10: Quality Control.

- (A) Identifying Defects:** If at any time before the security deposit is refunded to the contractor/during defect liability period mentioned in bid data, the Engineer-in-charge or his subordinate-in-charge of the work may instruct the contractor to uncover and test any part of the works which he considers may have a defect due to use of unsound materials or unskillful workmanship and the contractor has to carry out a test at his own cost irrespective of work already approved or paid.
- (B) Correction of Defects:** The contractor shall be bound forthwith to rectify or remove and reconstruct the work so specified in whole or in part, as the case may require. The contractor shall correct the notified defect within the Defects Correction Period mentioned in notice.
- (C) Uncorrected Defects:**
 - (i)** In the case of any such failure, the Engineer-in-charge shall give the contractor at least 14 days notice of his intention to use a third party to correct a defect. He may rectify or remove, and re-execute the work or remove and replace the materials or articles complained of as the case may be at the risk and expense in all respects of the contractor.
 - (ii)** If the Engineer considers that rectification/correction of a defect is not essential and it may be accepted or made use of; it shall be within his discretion to accept the same at such reduced rates as he may fix therefore.

Clause – 11:

- (A) Inspection of Operations.** The Engineer and his subordinates, shall at all reasonable times have access to the site for supervision and inspection of works under or in course of execution in pursuance of the contract and the contractor shall afford every facility for and every assistance in obtaining the right to such access.
- (B) Dates for Inspection and Testing.** The Engineer shall give the contractor reasonable notice of the intention of the Engineer-in-charge or his subordinate to visit the work shall have been given to the contractor, then he either himself be present to receive orders and instructions, or have a responsible agent duly accredited in writing present for that purpose, orders given to the contractor's duly authorized agent shall be considered to have the same force an effect as if they had been given to the contractor himself.

Clause – 12: Examination of work before covering up.

- (A)** No part of the works shall be covered up or put out of view/beyond the reach without giving notice of not less than five days to the Engineer whenever any such part of the works or foundations is or are ready or about to be ready for examination and the Engineer shall, without delay, unless he considers it unnecessary and advises the contractor accordingly, attend for the purpose of examining and measuring such part of the works or of examining such foundations;

- (B) If any work is covered up or placed beyond the reach of measurement without such notice having been given, the same shall be uncovered at the contractor's expense, and in default thereof no payment or allowance shall be made for such work, or for the materials with which the same was executed.

Clause – 13: Risks. The contractor shall be responsible for all risks of loss of or damage to physical property or facilities or related services at the premises and of personal injury and death which arise during and in consequence of its performance of the contract. If any damage is caused while the work is in progress or become apparent within three months of the grant of the certificate of completion, final or otherwise, the contractor shall make good the same at his own expense, or in default the Engineer may cause the same to be made good by other workmen, and deduct the expenses from retention money lying with the Engineer.

Clause-14: Measures for prevention of fire and safety measures. The contractor shall not set fire to any standing jungle, trees, bush-wood or grass without a written permit from the Executive Engineer. When such permit is given, and also in all cases when destroying, cutting or uprooting trees, bush-wood, grass, etc by fire, the contractor shall take necessary measures to prevent such fire spreading to or otherwise damaging surrounding property. The contractor is responsible for the safety of all its activities including protection of the environment on and off the site. Compensation of all damage done intentionally or unintentionally on or off the site by the contractor's labour shall be paid by him.

Clause-15:Sub-contracting. The contractor shall not subcontract the whole of the works, except where otherwise provided by the contract. The contractor shall not subcontract any part of the works without the prior consent of the Engineer. Any such consent shall not relieve the contractor from any liability or obligation under the contract and he shall be responsible for the acts, defaults and neglects of any subcontractor, his agents, servants or workmen as if these acts, defaults or neglects were those of the contractor, his agents' servants or workmen. The provisions of this contract shall apply to such subcontractor or his employees as if he or it were employees of the contractor.

Clause – 16: Disputes. All disputes arising in connection with the present contract, and which cannot be amicably settled between the parties, , the decision of the Superintending Engineer of the circle/officer/one grade higher to awarding authority shall be final, conclusive and binding on all parties to the contract upon all questions relating to the meaning of the specifications, designs drawings, and instructions, hereinbefore mentioned and as to the quality of workmanship, or materials used on the work or as to any other questions, claim, right, matter, or thing whatsoever in any way arising out of, or relating to the contract design, drawings, specifications, estimates, instructions, orders or these conditions or otherwise concerning the works, or the execution, of failure to execute the same, whether arising, during the progress of the work, or after the completion or abandonment thereof.

Clause –17: Site Clearance. On completion of the work, the contractor shall be furnished with a certificate by the Executive Engineer (hereinafter called the Engineer in-charge) of such completion, but neither such certificate shall be given nor shall the work be considered to be complete until the contractor shall have removed all temporary structures and materials brought at site either for use or for operation facilities including cleaning debris and dirt at the site. If the contractor fails to comply with the requirements of this clause then Engineer-in-charge, may at the expense of the contractor remove and dispose of the same as he thinks fit and shall deduct the amount of all expenses so incurred from the contractor's retention

money. The contractor shall have no claim in respect of any surplus materials as aforesaid except for any sum actually realized by the sale thereof.

Clause –18: Financial Assistance /Advance Payment.

(A) Mobilization advance is not allowed.

(B) Secured Advance against materials brought at site.

- (i)** Secured Advance may be permitted only against imperishable materials/quantities anticipated to be consumed / utilized on the work within a period of three months from the date of issue of secured advance and definitely not for full quantities of materials for the entire work/contract. The sum payable for such materials on site shall not exceed 75% of the market price of materials;
- (ii)** Recovery of Secured Advance paid to the contractor under the above provisions shall be affected from the monthly payments on actual consumption basis, but not later than period more than three months (even if unutilized).

Clause –19: Recovery as arrears of Land Revenue. Any sum due to the Government by the contractor shall be liable for recovery as arrears of Land Revenue.

Clause –20: Refund of Security Deposit/Retention Money. On completion of the whole of the works (a work should be considered as complete for the purpose of refund of security deposit to a contractor from the last date on which its final measurements are checked by a competent authority, if such check is necessary otherwise from the last date of recording the final measurements), the defects notice period has also passed and the Engineer has certified that all defects notified to the contractor before the end of this period have been corrected, the security deposit lodged by a contractor (in cash or recovered in installments from his bills) shall be refunded to him after the expiry of three months from the date on which the work is completed.

Accounts Officer

Contractor

Executive Engineer/Procuring Agency

MEHRAN UNIVERSITY OF ENGINEERING & TECHNOLOGY, JAMSHORO
SCHEDULE - B

SUBJECT: Up-Dating the Seminar Library of Chemical Engineering Department of MUET, Jamshoro.

GENERAL ABSTRACT

1 PART-I CIVIL WORK (Schedule Items)

2 PART-II CIVIL WORK (Non-Schedule Items)

3 PART-III Electric WORK (Schedule Items)

4 PART-IV Electric WORK (Non Schedule Items)

Grand Total.....

SAY.....

Contractor

Executive Engineer(M)

SUBJECT: Up-Dating the Seminar Library of Chemical Engineering Department of MUET, Jamshoro.

S.#	ITEM	QTY	Rate	Unit	AMOUNT
PART-I (CIVIL WORK) Sch: Items					
1	Dismantling cement concrete plain 1:2:4. S.I. 19(c) P 10)	37.50	3327.50	%Cft	Rs. 1,247.81
2	Excavtion in foundation of Building Bridges and other structures including dagbelling dressing,refilling around structrue with excavated earth Watering and ramming lead upto 5 ft.(b) In ordinary soil. (S.I # 18 (b) P-4)	187.50	3176.25	%o Cft	Rs. 595.55
3	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate without shuttering ratio 1:4:8 (S.I # 5 (i) P-16)	24.75	11288.75	%Cft	Rs. 2,793.97
4	Reinforced cement concrete work i/c the cost of steel reinforcement and its labor for bending and binding which will be paid separately. This rate also includes all kinds of forms,moulds, lifting, shuttering, curing, rendering and finishing the exposed surface laid in position complete in all respects Ratio 1:2:4. 90 lbs cement 2cft sand 4cft shingle 1/8" to 1/4" gauge (S.I # 6 (a) P-16 & 17)	93.75	337.00	P.Cft	Rs. 31,593.75
5	Fabrication of tor steel reinforcement for cement concrete including cutting bending, laying in position malting joints and fastening including cost of binding wire (also includes removable dust from bars. (b) Using Tor bars. S.I.No: 8(b) P-17.	5.85	5001.70	P. Cwt	Rs. 29,259.95
6	Pacca brick work in ground floor in cement sand mortar ratio 1:6 (S I # 5(1-E) P-21)	187.50	12674.36	% Cft	Rs. 23,764.43
7	Cement Plaster 1:6 upto 12' height (a) 3/8"" thick. S.I. No. 13 Page # 52.	550.00	2122.72	%Sft	Rs. 11,674.96
	(b) 1/2"" thick.	550.00	2206.60	%Sft	Rs. 12,136.30
8	Removing cement or lime plaster (S.I # 53 P-13)	50.00	121.00	%Sft	Rs. 60.50
9	Scraping ordinary distemper oil bond distemper or paint on walls. (S.I# 54(b) Page-13)	4263.00	226.88	%Sft	Rs. 9,671.89
10	Distempering Two coats (S.I # 24(b) Page-54)	4263.00	1043.90	%Sft	Rs. 44,501.46
11	Preparing Old Surface: Painting doors, windows i/c edges two coats (S.I # 4 P-68).	507.50	1072.06	%Sft	Rs. 5,440.70
12	French polishing complete. (b) On old work. S.I.No. 7(b) Page # 71.)	140.00	1952.50	%Sft	Rs. 2,733.50
13	Glazing with panes (24 oz. to 26 oz.) using putty and deodar wooden 1st -class fillets. (S.I # 46 Page-64)	36.00	163.90	P.Sft	Rs. 5,900.40
14	Coloured cement tiles (8" x 8" x 3/4") of approved dark shade laid flat in 1:2 white cement mortar over a bed of 3/4" thick lime mortar 1:2. (S.I # 42 P-45)	50.00	10964.99	%Sft	Rs. 5,482.50
15	Providing & fixing approved quality mortic lock (S.I No. 21 Page-60)	1	1786.13	Each	Rs. 1,786.13
16	Providing and fixing iron collapsible gate with channel framing of section 3/4" x 5/16" at 4" I/c revitted with 3/4" x 1/8" flat iron patti placed diagonally and provided with top & bottom T- section 1" x 1" 1/8" along with rollers also I/c locking arrangement and fixing in floor/ceiling or wall etc: completed.(S.I # 32 P-93)	42.00	387.04	P.Sft	Rs. 16,255.68

17	Applying chemical polishing on existing mosaic /Marble flooring / dado including cleaning, grinding with carborandum stone / sand paper and applying chemical polish as per requirement. (S,I # 70 P-49)	975.00	36.60	P.Sft	Rs. 35,685.00
Sub-Total =					Rs. 240,584.47
Premium quoted by the Contractor.....% Above/ Below.....					
Total =					

S.#	ITEM	QTY	Rate	Unit	AMOUNT
PART-II (CIVIL WORK) Non-Sch: Items					
1	Supplying / Installation 2'.0 x 2'.0 size 5/8" thick Gypsum tiles False Ceiling Panel place over Aluminum Groove (U) type channel and hange by heavy duty wire complete at any floor and cutting any type of electric fixtures as per approved sample complete in all respects as per instruction of Engineer/Incharge.	1000.0 0		P.Sft	
2	Making/fixing Commercial ply wooden partition wall in 1/2" thick including wooden strips with all necessary / relevant material etc complete in all respects as per instruction of Engineer / Incharge.	162.50		P.Sft	
Total =					

Part-III (Electrical Work) Schedule items					
S.#	ITEM	QTY	Rate	Unit	AMOUNT
1	Wiring for light or fan point with (3/029 PVC insulated wire in 20mm 3/4" Pvc conduit on surface as required. (S.I # 123 Page-15)	30	797.00	Each	Rs. 23,910.00
2	Providing / Laying (main or Sub-Main) PVC insulated with size 2-7/029 copper conductor in 3/4" dia Pvc conduit on surface (S.I #3 P-1)	76.20	171.00	P. Mtr	Rs. 13,030.20
3	Providing & fixing A/C one way SP 5amp switch flush type (S.I # 216 P-33)	35	54.00	Each	Rs. 1,890.00
4	Providing & laying (MAIN or SUB MAIN) PVC insulated with size 2-7/.044 (6mm ²) copper conductor in 1" dia PVC conduit on surface. (S,I # 5 P-1)	185.62	305.00	P. Mtr	Rs. 56,614.10
5	Providing & fixing three pin 5amp plug & socket flush type (S.I # 226 P-33)	10	151.00	Each	Rs. 1,510.00
6	Providing & fixing Brass Bracket fan 18" (good quality) (S.I # 236 P-34)	12	2791.00	Each	Rs. 33,492.00
7	Providing & fixing channel patti 2" as required as per instruction of Engineer. (S.I # 297 P-43)	100.00	45.00	P.Rft	Rs. 4,500.00

8	Providing & fixing circuit breaker 6,10,15,20, 30,40,50 & 63amp SP (TB-5S) on prepared board as required (S.I # 203 P-31)	2	916.00		Rs. 1,832.00
Sub-Total =					Rs. 136,778.30
Premium quoted by the Contractor.....% Above/ Below.....					
Total =					

Part-IV Electric Work (Non-Sch: Items)					
S.#	ITEM	QTY	Rate	Unit	AMOUNT
1	P/F & Installing TBS-4x20 light fixtting with all accessories Complete fixture ready to use.	16		Eac h	
2	Providing / Fixing & installation of Distribution Board size 14x18" anti rust coated and with the 4 Circuit breakers main TP 100 Amp (Tarasaki or equivalent) including lamp all are good quality complete in all respects.	1		Eac h	
3	Providing / Fixing & installation of Metal Board with fiber plastic sheet size 10x4 including nails & screw fixed in floor including testing & commissioning complete in all respects.	4		Eac h	
4	Supplying / Fixing & installation of (2) ton split Air Conditioner (Matsobishi make or equivalent) including (Angle Iron, Installation kit & Drain Pipe), complete in all respects ready to use.	2		Eac h	
5	Supplying / Fixing & installation of (1) ton split Air Conditioner (Matsobishi make or equivalent) including (Angle Iron, Installation kit & Drain Pipe), complete in all respects ready to use.	1		Eac h	
Total =					

Contractor

Executive Engineer(M)



TENDER DOCUMENT

Repairing & Maintenance Work of Bungalow # D-1 of New Senior Staff Residential Colony of MUET, Jamshoro.

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EXECUTIVE ENGINEER

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3. **Fixed Price Contracts:** The Bid prices and rates are fixed during currency of contract and under no circumstance shall any contractor be entitled to claim enhanced rates for any item in this contract.

4. The Procuring Agency shall have right of rejecting all or any of the tenders as per provisions of SPP Rules 2010.

5. **Conditional Offer:** Any person who submits a tender shall fill up the usual printed form stating at what percentage above or below on the rates specified in Bill of Quantities for items of work to be carried out: he is willing to undertake the work and also quote the rates for those items which are based on market rates. Only one rate of such percentage, on all the Scheduled Rates shall be framed. Tenders, which propose any alternative in the works specified in the said form of invitation to tender or in the time allowed for carrying out the work, or which contain any other conditions, will be liable to rejection. No printed form of tender shall include a tender for more than one work, but if contractor wish to tender for two or more works, they shall submit a separate tender for each.

The envelope containing the tender documents shall refer the name and number of the work.

6. All works shall be measured by standard instruments according to the rules.

7. Bidders shall provide evidence of their eligibility as and when requested by the Procuring Agency.
8. Any bid received by the Agency after the deadline for submission of bids shall be rejected and returned unopened to the bidder.
9. Prior to the detailed evaluation of bids, the Procuring Agency will determine whether the bidder fulfills all codal requirements of eligibility criteria given in the tender notice such as registration with tax authorities, registration with PEC (where applicable), turnover statement, experience statement, and any other condition mentioned in the NIT and bidding document. If the bidder does not fulfill any of these conditions, it shall not be evaluated further.
10. Bid without bid security of required amount and prescribed form shall be rejected.
11. Bids determined to be substantially responsive shall be checked for any arithmetic errors. Arithmetical errors shall be rectified on the following basis;
 - (A) **In case of schedule rates**, the amount of percentage quoted above or below will be checked and added or subtracted from amount of bill of quantities to arrive the final bid cost.
 - (B) **In case of item rates**, .If there is a discrepancy between the unit rate and the total cost that is obtained by multiplying the unit rate and quantity, the unit rate shall prevail and the total cost will be corrected unless in the opinion of the Agency there is an obvious misplacement of the decimal point in the unit rate, in which case the total cost as quoted will govern and the unit rate corrected. If there is a discrepancy between the total bid amount and the sum of total costs, the sum of the total costs shall prevail and the total bid amount shall be corrected.
 - (C) Where there is a discrepancy between the amounts in figures and in words, the amount in words will govern.

BIDDING DATA

(This section should be filled in by the Engineer/Procuring Agency before issuance of the Bidding Documents).

- a) Name & Address of the procuring agency. : Mehran University of Engg: & Technology, Jamshoro.
- b) Brief Description of Works : **Repairing & Maintenance Work of Bungalow # D-1 of New Senior Staff Residential Colony of MUET, Jamshoro.**
- c) Estimated Cost : Rs. 496,122.00
- d) Amount of Bid Security : **2%** (Rs.9,922.00.)
- e) Period of Bid Validity : **90 days.**
- f) Amount of Bid Security : **10%** (Rs. 49,612.00 2% at the time of Bid Submission and 8% deductible from the running bills).
- g) Percentage if any, to be deducted from bill : **8%** (Rs.39,690.00).
- h) Deadline of submission of Bids along with time : 25-02-2015 upto 12.00 (noon)
- I) Venue, Date & Time of Bid opening : Office of Executive Engineer(m) 25-02-2015 at 12.30 (PM)
- j) Time for Completion from written order of commence : 03 (three) Months.
- k) Liquidity damages : ----- (05% of Estimated cost or Bid cost)
- l) Stamp duty **0.30%** or notified by the Govt. of Sindh, will be paid by successful bidder as stamp duty.
- m) Deposit Receipt No: Date: Amount:

Conditions of Contract

Clause – 1: Commencement & Completion Dates of work. The contractor shall not enter upon or commence any portion or work except with the written authority and instructions of the Engineer-in-charge or of in subordinate-in-charge of the work. Failing such authority the contractor shall have no claim to ask for measurements of or payment for work.

The contractor shall proceed with the works with due expedition and without delay and complete the works in the time allowed for carrying out the work as entered in the tender shall be strictly observed by the contractor and shall reckoned from the date on which the order to commence work is given to the contractor. And further to ensure good progress during the execution of the work, contractor shall be bound, in all in which the time allowed for completion of any work exceeds one month, to achieve progress on the prorated basis.

Clause – 2: Liquidated Damages. The contractor shall pay liquidated damages to the Agency at the rate per day stated in the bidding data for each day that the completion date is later than the Intended completion date; the amount of liquidated damage paid by the contractor to the Agency shall not exceed 10 per cent of the contract price. Agency may deduct liquidated damages from payments due to the contractor. Payment of liquidated damages does not affect the contractor's liabilities.

Clause – 3: Termination of the Contract.

- (A) Procuring Agency/Executive Engineer may terminate the contract if either of the following conditions exists:-
- (i) contractor causes a breach of any clause of the Contract;
 - (ii) the progress of any particular portion of the work is unsatisfactory and notice of 10 days has expired;
 - (iii) in the case of abandonment of the work owing to the serious illness or death of the contractor or any other cause.
 - (iv) contractor can also request for termination of contract if a payment certified by the Engineer is not paid to the contractor within 60 days of the date of the submission of the bill;
- (B) The Executive Engineer/Procuring Agency has power to adopt any of the following courses as may deem fit:-
- (i) to forfeit the security deposit available except conditions mentioned at A
 - (iii) and (iv) above;
 - (ii) to finalize the work by measuring the work done by the contractor.
- (C) In the event of any of the above courses being adopted by the Executive Engineer/Procuring Agency, the contractor shall have:-

- (i) no claim to compensation for any loss sustained by him by reason of his having purchased or procured any materials, or entered into any engagements, or made any advances on account of, or with a view to the execution of the work or the performance of the contract,
- (ii) however, the contractor can claim for the work done at site duly certified by the executive engineer in writing regarding the performance of such work and has not been paid.

Procuring Agency/Engineer may invite fresh bids for remaining work.

Clause 4: Possession of the site and claims for compensation for delay. The Engineer shall give possession of all parts of the site to the contractor. If possession of site is not given by the date stated in the contract data, no compensation shall be allowed for any delay caused in starting of the work on account of any acquisition of land, water standing in borrow pits/ compartments or in according sanction to estimates. In such case, either date of commencement will be changed or period of completion is to be extended accordingly.

Clause –5: Extension of Intended Completion Date. The Procuring Agency either at its own initiatives before the date of completion or on desire of the contractor may extend the intended completion date, if an event (which hinders the execution of contract) occurs or a variation order is issued which makes it impossible to complete the work by the intended completion date for such period as he may think necessary or proper. The decision of the Executive Engineer in this matter shall be final; where time has been extended under this or any other clause of this agreement, the date for completion of the work shall be the date fixed by the order giving the extension or by the aggregate of all such orders, made under this agreement. When time has been extended as aforesaid, it shall continue to be the essence of the contract and all clauses of the contract shall continue to be operative during the extended period.

Clause –6: Specifications. The contractor shall execute the whole and every part of the work in the most substantial and work-man-like manner and both as regards materials and all other matters in strict accordance with the specifications lodged in the office of the Executive Engineer and initialed by the parties, the said specification being a part of the contract. The contractor shall also confirm exactly, fully and faithfully to the designs, drawing, and instructions in writing relating to the work signed by the Engineer-in-charge and lodge in his office and to which the contractor shall be entitled to have access at such office or on the site of work for the purpose of inspection during office hours and the contractor shall, if he so requires, be entitled at his own expense to make or cause to be made copies of the specifications, and of all such designs, drawings, and instructions as aforesaid.

Clause – 7: Payments.

(A) **Interim/Running Bill.** A bill shall be submitted by the contractor as frequently as the progress of the work may justify for all work executed and not included in any previous bill at least once in a month and the Engineer-in-charge shall take or cause to be taken the requisite measurements for the purpose of having the same verified and

the claim, as far as admissible, adjusted, if possible before the expiry of ten days from the presentation of the bill, at any time depute a subordinate to measure up the said work in the presence of the contractor or his authorized agent, whose countersignature to the measurement list will be sufficient to warrant and the Engineer-in-charge may prepare a bill from such list which shall be binding on the contractor in all respects.

The Engineer /Procuring Agency shall pass/certify the amount to be paid to the contractor, which he considers due and payable in respect thereof, subject to deduction of security deposit, advance payment if any made to him and taxes. All such intermediate payment shall be regarded as payments by way of advance against the final payment only and not as payments for work actually done and completed, and shall not preclude the Engineer-in-charge from recoveries from final bill and rectification of defects and unsatisfactory items of works pointed out to him during defect liability period.

- (B) **The Final Bill.** A bill shall be submitted by the contractor within one month of the date fixed for the completion of the work otherwise Engineer-in-charge's certificate of the measurements and of the total amount payable for the works shall be final and binding on all parties.

Clause – 8: Reduced Rates. In cases where the items of work are not accepted as so completed, the Engineer-in-charge may make payment on account of such items at such reduced rates as he may consider reasonable in the preparation of final or on running account bills with reasons recorded in writing.

Clause – 9: Issuance of Variation and Repeat Orders.

- (A) Agency may issue a Variation Order for procurement of works, physical services from the original contractor to cover any increase or decrease in quantities, including the introduction of new work items that are either due to change of plans, design or alignment to suit actual field conditions, within the general scope and physical boundaries of the contract.
- (B) Contractor shall not perform a variation until the Procuring Agency has authorized the variation in writing subject to the limit not exceeding the contract cost by of 15% on the same conditions in all respects on which he agreed to do them in the work, and at the same rates, as are specified in the tender for the main work. The contractor has no right to claim for compensation by reason of alterations or curtailment of the work.
- (C) In case the nature of the work in the variation does not correspond with items in the Bill of Quantities, the quotation by the contractor is to be in the form of new rates for the relevant items of work, and if the Engineer-in-charge is satisfied that the rate quoted is within the rate worked out by him on detailed rate analysis, and then only he shall allow him that rate after approval from higher authority.
- (D) The time for the completion of the work shall be extended in the proportion that the additional work bear to the original contact work.

- (E) In case of quantities of work executed result the Initial Contract Price to be exceeded by more than 15%, and then Engineer can adjust the rates for those quantities causing excess the cost of contract beyond 15% after approval of Superintending Engineer / higher authority..
- (F) **Repeat Order:** Any cumulative variation, beyond the 15% of initial contract amount, shall be subject of another contract to be tendered out if the works are separable from the original contract.

Clause-10: Quality Control.

- (A) **Identifying Defects:** If at any time before the security deposit is refunded to the contractor/during defect liability period mentioned in bid data, the Engineer-in-charge or his subordinate-in-charge of the work may instruct the contractor to uncover and test any part of the works which he considers may have a defect due to use of unsound materials or unskillful workmanship and the contractor has to carry out a test at his own cost irrespective of work already approved or paid.
- (B) **Correction of Defects:** The contractor shall be bound forthwith to rectify or remove and reconstruct the work so specified in whole or in part, as the case may require. The contractor shall correct the notified defect within the Defects Correction Period mentioned in notice.
- (C) **Uncorrected Defects:**
 - (i) In the case of any such failure, the Engineer-in-charge shall give the contractor at least 14 days notice of his intention to use a third party to correct a defect. He may rectify or remove, and re-execute the work or remove and replace the materials or articles complained of as the case may be at the risk and expense in all respects of the contractor.
 - (ii) If the Engineer considers that rectification/correction of a defect is not essential and it may be accepted or made use of; it shall be within his discretion to accept the same at such reduced rates as he may fix therefore.

Clause – 11:

- (A) **Inspection of Operations.** The Engineer and his subordinates, shall at all reasonable times have access to the site for supervision and inspection of works under or in course of execution in pursuance of the contract and the contractor shall afford every facility for and every assistance in obtaining the right to such access.
- (B) **Dates for Inspection and Testing.** The Engineer shall give the contractor reasonable notice of the intention of the Engineer-in-charge or his subordinate to visit the work shall have been given to the contractor, then he either himself be present to receive

orders and instructions, or have a responsible agent duly accredited in writing present for that purpose, orders given to the contractor's duly authorized agent shall be considered to have the same force and effect as if they had been given to the contractor himself.

Clause – 12: Examination of work before covering up.

- (A) No part of the works shall be covered up or put out of view/beyond the reach without giving notice of not less than five days to the Engineer whenever any such part of the works or foundations is or are ready or about to be ready for examination and the Engineer shall, without delay, unless he considers it unnecessary and advises the contractor accordingly, attend for the purpose of examining and measuring such part of the works or of examining such foundations;
- (B) If any work is covered up or placed beyond the reach of measurement without such notice having been given, the same shall be uncovered at the contractor's expense, and in default thereof no payment or allowance shall be made for such work, or for the materials with which the same was executed.

Clause – 13: Risks. The contractor shall be responsible for all risks of loss of or damage to physical property or facilities or related services at the premises and of personal injury and death which arise during and in consequence of its performance of the contract. If any damage is caused while the work is in progress or becomes apparent within three months of the grant of the certificate of completion, final or otherwise, the contractor shall make good the same at his own expense, or in default the Engineer may cause the same to be made good by other workmen, and deduct the expenses from retention money lying with the Engineer.

Clause-14: Measures for prevention of fire and safety measures. The contractor shall not set fire to any standing jungle, trees, bush-wood or grass without a written permit from the Executive Engineer. When such permit is given, and also in all cases when destroying, cutting or uprooting trees, bush-wood, grass, etc by fire, the contractor shall take necessary measures to prevent such fire spreading to or otherwise damaging surrounding property. The contractor is responsible for the safety of all its activities including protection of the environment on and off the site. Compensation of all damage done intentionally or unintentionally on or off the site by the contractor's labour shall be paid by him.

Clause-15: Sub-contracting. The contractor shall not subcontract the whole of the works, except where otherwise provided by the contract. The contractor shall not subcontract any part of the works without the prior consent of the Engineer. Any such consent shall not relieve the contractor from any liability or obligation under the contract and he shall be responsible for the acts, defaults and neglects of any subcontractor, his agents, servants or workmen as if these acts, defaults or neglects were those of the contractor, his agents' servants or workmen. The provisions of this contract shall apply to such subcontractor or his employees as if he or it were employees of the contractor.

Clause – 16: Disputes. All disputes arising in connection with the present contract, and which cannot be amicably settled between the parties, , the decision of the Superintending Engineer of the circle/officer/one grade higher to awarding authority shall be final, conclusive and binding on all parties to the contract upon all questions relating to the meaning of the specifications, designs drawings, and instructions, hereinbefore mentioned and as to the quality of workmanship, or materials used on the work or as to any other questions, claim, right, matter, or thing whatsoever in any way arising out of, or relating to the contract design, drawings, specifications, estimates, instructions, orders or these conditions or otherwise concerning the works, or the execution, of failure to execute the same, whether arising, during the progress of the work, or after the completion or abandonment thereof.

Clause –17: Site Clearance. On completion of the work, the contractor shall be furnished with a certificate by the Executive Engineer (hereinafter called the Engineer in-charge) of such completion, but neither such certificate shall be given nor shall the work be considered to be complete until the contractor shall have removed all temporary structures and materials brought at site either for use or for operation facilities including cleaning debris and dirt at the site. If the contractor fails to comply with the requirements of this clause then Engineer-in-charge, may at the expense of the contractor remove and dispose of the same as he thinks fit and shall deduct the amount of all expenses so incurred from the contractor's retention money. The contractor shall have no claim in respect of any surplus materials as aforesaid except for any sum actually realized by the sale thereof.

Clause –18: Financial Assistance /Advance Payment.

(A) Mobilization advance is not allowed.

(B) Secured Advance against materials brought at site.

- (i)** Secured Advance may be permitted only against imperishable materials/quantities anticipated to be consumed / utilized on the work within a period of three months from the date of issue of secured advance and definitely not for full quantities of materials for the entire work/contract. The sum payable for such materials on site shall not exceed 75% of the market price of materials;
- (ii)** Recovery of Secured Advance paid to the contractor under the above provisions shall be affected from the monthly payments on actual consumption basis, but not later than period more than three months (even if unutilized).

Clause –19: Recovery as arrears of Land Revenue. Any sum due to the Government by the contractor shall be liable for recovery as arrears of Land Revenue.

Clause –20: Refund of Security Deposit/Retention Money. On completion of the whole of the works (a work should be considered as complete for the purpose of refund of security deposit to a contractor from the last date on which its final measurements are checked by a competent authority, if such check is necessary otherwise from the last date of recording the final measurements), the defects notice period has also passed and the Engineer has certified that all defects notified to the contractor before the end of this period have been corrected, the security deposit lodged by a contractor (in cash or recovered in installments from his bills) shall be refunded to him after the expiry of three months from the date on which the work is completed.

Accounts Officer

Contractor

Executive Engineer/Procuring Agency

MEHRAN UNIVERSITY OF ENGINEERING & TECHNOLOGY, JAMSHORO
SCHEDULE - B

SUBJECT: Repairing & Maintenance Work of Bungalow # D-1 of New Senior Staff Residential Colony of MUET, Jamshoro.

GENERAL ABSTRACT

- 1 PART-I CIVIL WORK (Schedule Items)
- 2 PART-II CIVIL WORK (Non-Schedule Items)
- 3 PART-III PLUMBING WORK (Schedule Items)
- 4 PART-IV PLUMBING WORK (Non Schedule Items)
- 5 PART-V Electric WORK (Schedule Items)
- 6 PART-VI Electric WORK (Non Schedule Items)

Grand Total.....

SAY.....

Contractor

Executive Engineer(M)

SUBJECT: Repairing & Maintenance Work of Bungalow # D-1 of New Senior Staff Residential Colony of MUET, Jamshoro.

S.#	ITEM	QTY	Rate	Unit	AMOUNT
PART-I (CIVIL WORK) Sch: Items					
1	Scraping ordinary distemper oil bond distemper or paint on walls. (S.I# 54(b) Page-13)	4955.00	226.88	%Sft	Rs. 11,241.90
2	Distemping Two coats (S.I # 24(b) Page-54)	9300.00	1043.90	%Sft	Rs. 97,082.70
3	Preparing Old Surface: Painting doors, windows i/c edges two coats (S.I # 4 P-68).	1902.00	1072.06	%Sft	Rs. 20,390.58
4	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate without shuttering ratio 1:4:8 (S.I # 5 (i) P-16)	390.03	11288.75	%Cft	Rs. 44,029.51
5	Providing & laying topping cement concreat (1:2:4) including surface finishing and dividing into panels (b) 2" thick. S.I.No. 16(c) P # 42.)	1184.00	3275.50	%Sft	Rs. 38,781.92
6	Glazing with panes (24 oz. To 26 oz.) using putty and deodar wooden 1st -class fillets. (S.I # 46 Page-64)	58.59	163.90	P.Sft	Rs. 9,602.90
7	Making & fixing steel grated doors complete with locking arrangement angle iron frame 2" x 2" 3/8"and 3/4" sq; bars 4" centre to centr. (S.I # 23 P-91)	45.50	594.57	P.Sft	Rs. 27,052.94
8	First class deodar wood wroughtjoinery work in wire gauze doors windows with 22 SWG glavanized wire gauze 144 mesh per square inch iron fitting (d) Glavanized wire gauze fixed to chowkats with 3/4" deodar strips and screws. (S.I # 14(d) P-60)	140.08	190.72	P.Sft	Rs. 26,716.06
9	P/F G.I frame / chowkats of size 7"x2" or 41/2" x 3" for door using 20 gauge G,I sheet I/c welded hinges and fixing at site with necessary hold fasts. Filling with cement sand slurry of ration 1:6 and repairing the jambs. The cost also I/c all carriage tools & plants used in making and fixing, (S.I # 29 P-93)	35.00	228.90	P.Rft	Rs. 8,011.50
10	Providing & fixing approved quality mortic lock (S.I No. 21 Page-60)	3	1786.13	Each	Rs. 5,358.39
11	Providing Anti -termmite treatment by spraying /sprinkling /spreading Neptachlar 0.5% Emulsion as an overall pre -construction treatment in slab type construction under the slab and along attached perches or entrances etc, complete as per directions of Engineer Incharge. (S.I # 92 P-108)	1179.21	9.74	P.Sft	Rs. 11,485.51
12	P/F in position door, windows & ventilators of 1st class deodar wood frame, & 1 3/4" thick commercial ply vineer shutter of first class deodar skeleton (hollow) and commercial ply wood (3 ply) on both sides i/c hold fast, hinges, iron tower bolts, handles & cleats with cord & one mortic lock and hooks (S.I # 9 P-58) Rate allowed after deduction of rate of door frame(b) Deodar wood(S.I #25-b P-61) (Rs.1227.36 (-) Rs.370.83 = Rs.856.53.	30.00	856.53	P.Sft	Rs. 25,695.90
13	Fist class deodar wood wrought, joinery in doors and windows etc, fixxed in position including chowkats hold fasts hinges, iron tower bolts, chocks cleats, handles and cords with hooks, etc. Deodar panelled or panelled glazwed or fully glazed(b) 1 3/4" thick. (S.I # 7-b P-58) Rate allowed after deduction of rate of door frame(b) Deodar wood(S.I #25-b P-61) (Rs.1273.76 (-) Rs.370.83 = Rs.902.93.	17.50	902.93	P.Sft	Rs. 15,801.28

14	Laying floor of approved with glazed tile 1/4" thick in white cement 1:2 over 3/4" thick cement mortar 1:2 complete. (S.I # 24 P-43)	60.00	27678.86	%Sft	Rs. 16,607.32
15	Glazed tile dado 1/4" thick laid in pigment over 1:2 cement sand mortar 3/4" thick i/c finishing. (S.I # 38 P-45)	50.00	28299.30	%Sft	Rs. 14,149.65
Sub-Total =					Rs. 372,008.05
Premium quoted by the Contractor.....% Above/ Below.....					
Total =					

PART-II (CIVIL WORK) Non-Sch: Items					
S.#	ITEM	QTY	Rate	Unit	AMOUNT
1	Making / Fixing Kitchen Cabinet under the slab made of Lassani Lamination Board with desire number of drawers and shutters and required relevant fixtures including painting & polishing etc complete in all respects as per instruction of Engineer/Incharge.	1		P.Job	
2	Making/fixing Kitchen wall mounted cabinet over the Kitchen slab box type size 2' x 1'-6" x 3' made of Lassani board two side pressed texture formica with one shelf at the middle and required relevant material / fixtures including painting & polishing etc; complete in all respects as per instruction of the Engineer in-charge.	1		P.Job	
3	Major repair of door shutters etc; complete in all respects as per instruction of site Engineer.	2		Each	
4	Minor repair of door shutters etc; complete in all respects as per instruction of site Engineer.	1		Each	
Total =					

Part-III Plumbing Work (Sch: Items)					
S.#	ITEM	QTY	Rate:Unit		AMOUNT
1	Providing & fixing a squatting type white glazed earthenware W.C. pan with including the cost of flushing Cistern with internal fittings and flush pipe with bends & making requisite number of holes in wall, plinth and floor for pipe connection and making good in cement concrete 1:2:4. a: With 4" dia white glazed earthen ware trap & plastic thimble (S.I # 2 P-1)	1	5728.80	Each	Rs. 5,728.80
2	Supplying and fixing in position brass bib cocks 1/2" dia C.P bib cock ,Standard pattern (S.I # 2-(b) P-16)	3	150.92	Each	Rs. 452.76
3	Supplying / Fixing concealed tee stop cock of Superior quality with CP head 1/2" dia (S.I # 12-(a) P-18)	2	843.92	Each	Rs. 1,687.84
4	Providing & fixing in position nyloon connections complete with 1/2" dia, brass stop cock with pair of brass nuts and lining joints to nyloon connection. (S.I # 23 P-06)	3	447.15	Each	Rs. 1,341.45
5	Providing & fixing 24" x 18" bavelled edge mirror of belgium glass complete with 1/8" thick hard board and c.p screws fixed to wooden pleat.(a) Standard Pattern. (S.I # 3 P-7)	2	1711.60	Each	Rs. 3,423.20

6	Providing & fixing European type white glazed earthen ware wash down w3.c pan complete with & I/c cost of white/black plastic seat (Best Qty) & lid with c.p brass hinges best quality and buffers 3 gallons plastic flushing cistern with internal fitting with fitting and clamp 3/4" dia.and cutting & making requisite number of holes in walls, plinth & follr for Pipe cinnnection & making good in cement concrete 1: 2: 4. (S.I # 4 P-2)	1	5339.40	Each	Rs. 5,339.40
7	Supplying and Fixing C.P muslim Shower with double bib cock and ring pipe etc; complete (S.I # 19 (a) P-19)	2	3432.00	Each	Rs. 6,864.00
8	P/F handle valves (China) (S I # 5 P-17)				
	i) 1/2" dia	3	200.42	P.Rft	Rs. 601.26
	Ii) 3/4" dia	3	271.92	P.Rft	Rs. 815.76
9	Providing G.I. Pipes, specials and clamps etc., I/c, fixing cutting and fitting complete with and including the cost of breaking through walls and roof, making good etc., painting two coats after cleaning the pipe etc., with white zinc paint with pigment to match the colour of the building and testing with water to a pressure head of 200 feet and handling (S.I # 1 P-12)				
	i) 1/2" dia	100.00	73.21	P.Rft	Rs. 7,321.00
	Ii) 3/4" dia	150.00	95.79	P.Rft	Rs. 14,368.50
10	P/F 24" x 18" Lavatory basin in white glazed earthen ware complete with and I/c the cost of W.I. Or C.I cantilever brackets 6" built in to wall, painted white in two coats after a primary coat of red led paint, a pair of 1/2] dia rubber plugh and chrome plated and making requisite number of holes in wall plinth and floor for pipe connection and making good and cement concrete 1:2:4.(Standard Pattern) (S.I # 8 P-3)	1	4253.70	Each	Rs. 4,253.70
11	S/F jet shower with rod of superior quality with c.p head 1/2" dia (S.I # 15 P-19)	1	1142.24	Each	Rs. 1,142.24
12	Providing R.C.C pipe with collars class "B" and digging the trenches to required depth & fixing inposition including cutting , fitting & jointing with maxphalt composition & cement mortor 1: 1 and testing with water pressure jto a head of 4 feet a bove the top of the heghest pipe & refilling with excavated staff.c.) 6" dia R.C.C pipe class "B". (S.I # 2-c P-23)	30.00	199.25	P.Rft	Rs. 5,977.50
Sub-Total =					Rs. 59,317.41
Premium quoted by the Contractor.....% Above/ Below.....					
Total =					

Part-IV Plumbing Work (Non-Sch: Items)					
S.#	ITEM	QTY	Rate	Unit	AMOUNT
1	Providing/laying including cutting & fitting PVC pipe 4" dia and trenches & testing, jointing with special type of solution complete in all respects as per instruction of the Engieer Incharge.	15.00		P.Rft	
2	Providing/fixing PVC standard Bend 4" dia and trenches & testing, jointing with special type of solution complete in all respects as per instruction of the Engieer Incharge.)	3		Each	

3	Providing/fixing PVC standard Tee 4" dia and trenches & testing, jointing with special type of solution complete in all respects as per instruction of the Engineer Incharge.	3		Each	
4	Repair of Flash Tank (Goldn make or equivalent) etc complete in all respects.	2		Each	
5	Repair of Main hole etc; complete in all respects	3		Each	
Total.....					

Part-V (Electrical Work) Schedule items					
S.#	ITEM	QTY	Rate	Unit	AMOUNT
1	Wiring for light or fan point with (3/029 PVC insulated wire in 20mm 3/4" Pvc conduit on surface as required. (S.I # 123 Page-15)	10	797.00	Each	Rs. 7,970.00
2	Providing / Laying (main or Sub-Main) PVC insulated with size 2-7/029 copper conductor in 3/4" dia Pvc conduit on surface (S.I #3 P-1)	130.00	171.00	P.Mt r	Rs. 22,230.00
3	Providing & fixing one way SP 5amp switch surface type (S.I # 216 P-33)	22	34.00	Each	Rs. 748.00
4	Providing & fixing Brass pendant lamp holder (S.I # 229 P-33)	10	74.00	Each	Rs. 740.00
Sub-Total =					Rs. 31,688.00
Premium quoted by the Contractor.....% Above/ Below.....					
Total =					

Part-VI Electric Work (Non-Sch: Items)					
S.#	ITEM	QTY	Rate	Unit	AMOUNT
1	Repair of Panel Board.	1		Each	
2	Providing / Fixing & installation complete set of Tube Light (Philips make or equivalent) including pati fitting, choke, starter and its wiring complete in all respects ready to use.	2		Each	
3	Providing / Fixing & installation multi purpose Universal etc complete in all respects ready to use.	2		Each	
4	Supplying / Fixing Energy Sever 23 watts Philips made or equivalent with good quality shade complete in all respects ready to use.	5		Each	
Total =					

Contractor

Executive Engineer(M)