

Bid Evaluation Report

1. Name of Procuring Agency: Project Director (PMU) Shah Abdul Latif University Khairpur.
2. Tender Reference No: PD/PMU/SALU/KHP/985 Dated: 15-11-2010
3. Tender Description/Name of work/item: "Strengthening of Infrastructure of SALU Khairpur"-
Const: of Admn Block- External Devl:i.e Ext: Drainage,
Ext: W/S, Appr: Rd: P/room, W/path & L/escaping
Open Bid
4. Method of Procurement:
5. Tender Published: SPPRA ID-2468/2010-News Paper bills i/c clippings awaited from Dir: Info:
Print & Electronic Media (SPPRA ID No. & News papers names with dates)
6. Total Bid documents Sold: 05 (Five) Nos.
7. Total Bids Received: 05 (Five) Nos.
8. Technical Bid Opening date: (if applicable) N/A *(Provide details in separate form)*
9. No. of Bid technically qualified (if applicable): N/A
10. Bid(s) Rejected: Nil
11. Financial Bid Opening date: 22-12-2010
- 12. Bid Evaluation Report:**

S No	Name of Firm or Bidder	Cost offered by the Bidder	Ranking in terms of cost	Comparison with Estimated cost	Reasons for acceptance/ rejection	Remarks
0	1	2	3	4	5	6
1.	Altaf Hussain Shaikh & Co:	4,900,877/-	1 st lowest	99,123/- saving	Reasonable Bid	W/O issued No PD/PMU/1109 dt:04-02-2011
2.	New Speedway	6,844,163/-	2 nd lowest	1,844,163/- excess	Rejected due to high bid	-----
3.	Naqvi Builders	7,508,225/-	3 rd lowest	2,508,225/- excess	Rejected due to high bid	-----
4.	Khairpur Builders	7,535,904/-	4 th lowest	2,535,904/- excess	Rejected due to high bid	-----
5.	Rock Well Interprises	7,584,817/-	5 th lowest	2,584,817/- excess	Rejected due to high bid	-----

Signatures of the Members of the Committee.

As per Attendance Sheet attached separately


Project Director (PMU)
SALU Khairpur



OFFICE OF THE PROJECT DIRECTOR (PMU) "STRENGTHENING OF INFRASTRUCTURE OF SHAH ABDUL LATIF UNIVERSITY KHAIRPUR."

ATTENDANCE SHEET.

NAME OF PROJECT/WORK: "STRENGTHENING OF INFRASTRUCTURE OF SHAH ABDUL LATIF UNIVERSITY KHAIRPUR EXTERNAL DRAINAGE, EXTERNAL WATER SUPPLY, APPROACH ROAD, PUMP ROOM, WALK PATH AND LAND SCALPING-OF ADMINISTRATION BLOCK."

Tender Notice No. PD(PMU)/SALU/KHP/985 Dated: 15-11-2010.

Tender opening Date: 22-12-2010.

Opening time 2:00 pm.

S.No.	Name of Firm	Name of Representative	Signature
1.	M/s Naqvi Builders Khairpur.	SYED MOHAMMAD NAQVI	
2.	M/s Rock well Enterprises.	Sajidullah	
3.	M/s New Speed Way.	Abdul Aleem	
4.	M/s Khairpur Builders.	S. Zafar Shah	
5.	M/s Altaf Hussain Shaikh & Co.	Altaf Hussain Shaikh	

MEMBERS OF OPENING COMMITTEE.

- | | |
|---|---|
| 1. Name: Proff: Shah Muhammad Luhrani
Designation. Dean Faculty of Commerce & Business Administration.
Signature: | 5. Name: Young Associate
Designation: Consultance.
Signature: |
| 2. Name: Noorullah Malik,
Designation. Director (P&D).
Signature: | 6. Name: Engr: G. Mustafa Shaikh,
Designation. Executive Engineer (F&M).
Signature: _____ |
| 3. Name: _____
Designation. Director Finance,
Signature: | 7. Name: Engr: Izzat Ahmed Shaikh,
Designation. Project Director (PMU).
Signature: |
| 4. Name: Engr: Imdad Ali Sial,
Designation. Project Director (Works),
Signature: | 8. Name: Engr: Ali Gohar Larik,
Designation. Project Manager (MPU).
Signature: |



**OFFICE OF THE PROJECT DIRECTOR (PMU) "STRENGTHENING OF
INFRASTRUCTURE OF SHAH ABDUL LATIF UNIVERSITY KHAIRPUR"**

Ph:0243-9280430

No.PD/PMU/SAL.U/KHP/1109
Dated:04-02-2011.

To,

M/s Altaf Hussain Shaikh & Co.
Govt: Approved Contractor,
Bungalow #B/34 G.M.B Colony,
Qasimabad Hyderabad.
Ph: 0322-3037969

SUBJECT:

**CONSTRUCTION OF EXTERNAL DRAINAGE/EXTERNAL WATER
SUPPLY, APPROACH ROADS, PUMP ROOM, WALKWAY AND LAND
ESCAPING IN ADMINISTRATION BLOCK UNDER THE PROJECT
TITLED "STRENGTHENING OF INFRASTRUCTURE SHAH ABDUL
LATIF UNIVERSITY KHAIRPUR."**

Reference:

Your tender opened on 22-12-2010 and your written consent dated:04-02-2011.

Dear Sir,

1. On approval dated: 29-01-2011 by Worthy Vice Chancellor Shah Abdul Latif University Khairpur your above tender based on total bid amount of Rs:4,900,877/- has been accepted.
2. No extra claim for anything including escalation in prices of materials and etc will be given.
3. You are instructed to commence the work immediately after taking over possession of site from Project Director/Project Manager (PMU) Shah Abdul Latif University Khairpur.
4. This letter may be treated as work order. The work should be carried out in accordance with the Terms, Conditions, Drawings and Specifications laid down in the Tender Documents.
5. The copies of working drawings may please be collected from this office for execution of work. You are also instructed to collect the tender documents triplicate and the same should be returned after filling and signing at every page.
6. The date of commencement of work will be reckoned after 15 days of issue of this letter as given in the "Special Stipulations".
7. You will complete the work within 03 months from the date of commencement. In case you fail to execute the agreement and mobilize the site stipulations of Tender Documents, the earnest money deposited by you with Tender Documents shall stand forfeited in favour of Vice Chancellor Shah Abdul Latif University Khairpur.
8. The period of maintenance will be Twelve Calendar Months from the date of issue of FINAL SUBSTANTIAL COMPLETION CERTIFICATE by the Consultant.
9. This letter of Award shall be treated as part of agreement unless the FORMAL AGREEMENT is signed.
10. Draft FORM OF AGREEMENT AND PERFORMANCE BOND (Already attached in Tender Documents volume-I) can be obtained from this office and shall be submitted to the undersigned before mobilizing the site, duly typed and signed on Non-Judicial Stamp Paper of Rs:100/- each and attested from a Notary Public/Oath Commissioner and Govt: recognized Insurance Co: respectively.
11. You will have to get the adhesive stamps affixed on the agreement from District Accounts Officer Khairpur at the prescribed rate.

Contd: Page No.2

12. You will execute the work in accordance with the working drawings issued from this office strictly.
13. You will construct proper pegs for demarcation of layout, checking and approval.
14. You will submit level sheet showing Natural Ground Level at foundation as well as entire area for approval.
15. You should submit tentative schedule of construction program showing date of commencement and completion.
16. You will follow Bar Bending Schedule prepared and signed by the Consultant and approved by the undersigned/Project Manager, if applicable.
17. Steel test reports carried out in the Testing Laboratory of M.U.E.T Jamshoro will be acceptable, if applicable.
18. Results of cube crushing strength for all R.C.C members obtained from recognized laboratory to be submitted for approval.

You will also have to maintain the following procedure during entire construction period

1. To deploy a full time Engineer at Site.
2. Weekly Progress report will be prepared and should be submitted to the deptt.
3. Inspection request should be submitted before 24 hours of execution of any new trade.
4. Pour slip to be submitted for approval of any C.C and R.C.C work well before execution of pouring.
5. Material submittal to be furnished well before time for approval from Consultant.
6. All the workers within the executed area should wear protection helmets and full boots.

You are requested to please acknowledge receipt of this work order/award letter in token of acceptance for undertaking the work as per terms and conditions mentioned in the Tender documents.


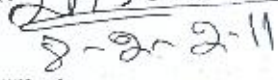
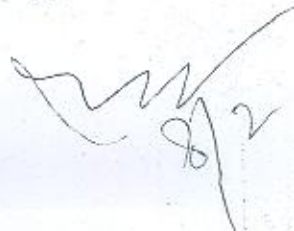
Note: No cartage for any kind of material will be paid.

With Regards.

Yours Faithfully,


Engr. Izhar Ahmed Shaikh
Project Director (PMU)

Copy F.W.Cs to:-

1. Mr. Syed Naveed Hussain Shah Senior Project Manager (M&E) Higher Education Commission Sector H-9 Islamabad.
2. The Secretary to Vice Chancellor of Shah Abdul Latif University Khairpur.
3. The Director Sindh Public Procurement Regulatory Authority, Block-8 Sindh Secretariat No4-A Court Road Karachi for information.
4. The Director (P&D) Shah Abdul Latif University Khairpur. 
5. M/s Young Associates Consulting Engineers Karachi. 
6. The Project Manager (PMU) Shah Abdul Latif University Khairpur. 

TENDER ISSUED TO: M/S Ally Hussain Co. ^{Shah}
DATE: 15-12-2010

D.R. No. 18031


SHAH ABDUL LATIF UNIVERSITY ^{dt 15-12-2010}
KHAIRPUR - SINDH ^{for 3000/-}

CONSTRUCTION OF ADMINISTRATION BLOCK EXTERNAL DEVELOPMENT WORK

EXTERNAL DRAINAGE, EXTERNAL WATER SUPPLY,
APPROACH ROAD, PUMP ROOM, WALKWAYS &
LANDSCAPING

TENDER DOCUMENTS

1. NOTICE INVITING TENDER
2. SCOPE OF WORK
3. INSTRUCTIONS TO TENDERERS
4. GENERAL CONDITIONS OF CONTRACT
5. SPECIAL CONDITIONS OF CONTRACT
6. SPECIAL STIPULATIONS
7. FORMS OF AGREEMENT / PERFORMANCE BOND /
MOBILIZATION ADVANCE
8. TECHNICAL SPECIFICATION
9. FORM OF TENDER
10. LISTS OF SPECIFIED MATERIAL
11. BILL OF QUANTITIES
12. TENDER DRAWINGS


Project Manager (PMU)
Shah Abdul Latif University
KHAIRPUR.





PROJECT DIRECTOR
(PMU) Shah Abdul Latif University,
KHAIRPUR.

YOUNG ASSOCIATES

CONSULTING ENGINEERS, ARCHITECTS & PLANNERS
38-C, 14TH COMMERCIAL STREET, PHASE - II (Ext.)
DEFENCE HOUSING AUTHORITY, KARACHI
PHONE - 35396444 - 35312244 Fax: 021-35883106
E-mail - y_assoc@hotmail.com


22/12/10



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SECTION - I

NOTICE INVITING TENDER

SHAH ABDUL LATIF UNIVERSITY
KHAIRPUR - SINDH

NOTICE INVITING TENDER

The Project Director (PMU) Shah Abdul Latif University Khairpur invites Tender bids from interested firms / contractors / individuals having sufficient experience in the field of Construction works under SPPRA Rules 2010, for execution of the following work.

S.No.	Name of Work	Estimated Cost (Rs.)	Earnest Money (Rs.)	Period for Completion	Tender Fee (Rs.)
1	Strengthening of Infrastructure of SALU Khairpur <u>Construction of Administration Block</u> (External Development i.e. External Drainage, External Water Supply, approach Road, Pump Room, Walkways & Landscaping.)	5.00 Millions	0.100 Million	Three Months	3,000/-

The interested firms / contractors / individuals may apply for issue of tenders to the Project Director (PMU) Shah Abdul Latif University Khairpur from the 1st date of publication of this notice in the Newspapers / Hoisting on the authorities website upto the closing date i.e. 15-12-2010.

Terms and conditions shall be as under:-

1. The tender will be issued on payment of usual / prescribed fee of Rs.3,000/- per tender.
2. The earnest money may be deposited in shape of call deposit pledged with Project Director (PMU) from any scheduled bank (refundable after completion of the work in case of lowest bidder and in case of highest bidders after completion of tender process).
3. Tenders will be received back upto 22-12-2010 & opened on the same date at 02:00 PM by the committee in presence of firms / contractors / individuals or their authorized agents who wish to be present.
4. Competent authority reserves the right to accept or reject all or any tender subject to provisions of SPPRA Rules-2010.

NOTE: The bidders may contact the Project Director (PMU) or M/s Young Associates Consulting Engineers and Architects or his concerned staff for any sort of clarification during office hours on Tel: No.0243-9280430-9280430, 021-5396444 & 021-5312244.

PROJECT DIRECTOR (PMU)
SHAH ABDUL LATIF UNIVERSITY
KHAIRPUR SINDH
TEL : 0243-9280430

SECTION – II

SCOPE OF WORK

SCOPE OF WORK

(FOR CIVIL, PLUMBING & SEWERAGE WORKS)

SHAH ABDUL LATIF UNIVERSITY KHAIRPUR intends to provide External Development i.e. External Drainage, External Water Supply, approach Road, Pump Room, Walkways & Landscaping in the premises of SHAH ABDUL LATIF UNIVERSITY KHAIRPUR SINDH with the drawings and specifications appended hereto on percentage above / below basis.

The work is to be executed through the contractors of repute licensed by P.E.C in relevant Category, whose bid is accepted by the Owner.

The scope of Work shall also include the work detailed in Contract Documents.

The owner may increase or decrease the quantum of work given in the BOQ at his sole discretion and no such increase or decrease shall give rise to any claim or compensation in this account.

The scope of work given in Contract Document includes items based on unit rates as indicated in schedule of rates, Govt. of Sindh (2004) for which Specifications of standing rates committee Govt. of Sindh be followed. (If Specification of any item is not indicated in Technical Specification of Tender Document) and / or items based on market rates for which Technical Specifications are given in the nomenclature and in section "Technical Specification"

No Cartage or Escalation in price of material or labour charges will be allowed unless notified by Govt. of Sindh after award of work. All Cartage and Escalation will be paid on schedule rate items only.

Time of completion is essence of this contract. In case of delay beyond the completion date without any cogent reason approved by the owners, the contractor will loose all privileges to claim any escalation what so ever even announced by Govt. of Sindh after the date of award of work.

SECTION – III

INSTRUCTIONS TO TENDERERS

INSTRUCTIONS TO TENDERERS

1. GENERAL

- a) M/s SHAH ABDUL LATIF UNIVERSITY KHAIRPUR SINDH (hereinafter referred to as the 'OWNER') through their Consultants vis YOUNG ASSOCIATES hereinafter referred to as 'CONSULTANTS' invites firms and contractors of repute to submit tenders on %age above / below basis and/or items based on market rates. For providing EXTERNAL DEVELOPMENT WORK (External Drainage, External Water Supply, approach Road, Pump Room, Walkways & Landscaping) as described in the scope of work in accordance with specifications and drawing requirements.
- b) Only contractors of repute having valid P.E.C License in relevant category are eligible to submit tenders for External Development works to the Owner for the construction of the subject work.
- c) Tenders shall be prepared and submitted to the Owner strictly in accordance with the instructions set forth herein.
- d) All entries in the tender are to be in ENGLISH LANGUAGE. Corrections, over writings etc, shall be signed by the authorized persons.
- e) The rate should be written in figures and also in words, the rates written in words will be treated as being correct and will be used for calculations.
- f) Every page of this Tender Document should be signed with date and stamped.

2. TENDER DOCUMENTS

- a) All documents / papers indicated in FORM OF AGREEMENT shall form integral part of AGREEMENT subsequently.



3. INSPECTION OF SITE AND DOCUMENTS

- a) The Tenders shall inspect the site of work and surroundings and shall satisfy themselves before submitting their Tenders as to the qualities and nature of the work, the requirements and availability of manpower, labour, materials, water, electricity and roads, the means and access to the site. The tendered rates shall be considered to include all these factors as well as any, or all other factors which may influence the cost of construction.
- b) The rates shall include the cost of all material, but in case, owner agrees to supply any or all the building materials to the contractor, the deduction for the cost of these materials shall be deducted from the bills (Interim or final as the case may be) of the contractor @ indicated in Special Stipulations.

4. SUFFICIENCY OF TENDER

- a) Each tenderer shall be deemed to have fully satisfied himself before submitting the Tender as to the Correctness and sufficiency of his Tender and prices stated in the bill of quantities, which rates and prices, except in so far as it is otherwise expressly provided in the Conditions of contract, must cover all his obligations under the Contract and all matters and things necessary for the proper completion of the project.
- b) No tenderers shall have the right to make any objection, excuse or claim about correctness and sufficiency of his tender to the owner.

5. INSPECTION OF SITE AND DOCUMENTS

- a) The Owner shall not assume any responsibility for information, interpretation and deductions the Tenderers may make from the data furnished by the Owner.
- b) ALL VERBAL INSTRUCTIONS BE IGNORED
No verbal instructions understanding, agreement or conversation with any officer, employee or agent of the Owner / Consultant, either before during or after the execution of the contract, shall affect or modify any of the terms or obligations contained in the tender documents.



6. EXPLANATION OF DOCUMENTS

- a) Any tenderers who may have any doubt or question as to the true meaning of any part of the tender documents should deliver to the Owner or the Consultant a written request for a clarification or answer thereof, prior to two days of the date set for opening of the Tender. Any explanations, revisions, additions or deletions to the tender documents will be made only by formal addendum, duly signed and issued by the Owner or the Consultant and mailed or delivered to each tenderer who has received a set of tender documents. Such addendum will become an integral part of the tender documents and receipt thereof must be acknowledged by return of the form issued with the addendum. Each addendum shall be signed by the Tenderers. The Owner / Consultant shall neither be responsible nor bound by any explanations, revisions, additions or deletions to the Tender Documents except those contained in the formal addendum signed and issued by the Owner or the Consultant.

7. DRAWINGS

The drawings showing the proposed work are also being issued with the Tender. The OWNER / CONSULTANTS, however, reserve the right to make any addition, alteration, modification and/or deletion in the drawings, specifications and / or BOQ (Scope of Work) at any time in the best interest of the work. The written Dimensions on drawings be followed missing Dimensions should not be scaled. In case of any doubt it should be referred to the Consultant.

8. COST OF TENDERING

Tenderers shall have no claim for reimbursement of any expenses of any kind whatsoever incurred in connection with the preparation and submission of their tenders.

9. INCOMPLETE TENDER

Incomplete Tender shall be liable for rejection by the Owner.

10. SUPPLY OF MATERIALS

No materials except if otherwise mentioned required for execution of the work shall be supplied or arranged by the OWNER. It shall be the responsibility of the Tenderer to procure all materials required for timely completion of the work. In case, water and electricity are provided by the owner, on specific request of the contractors, and if within the pervue of the owners to supply the same, a sum equal to 1% of the bills will be deducted for each of the items supplied, from every R/A bill of the Contractors. This however does not become the contractual obligation of the owners and does not entitle the contractors to claim, stop or delay the execution of work.

1. EARNEST MONEY

- a) The original tender shall be accompanied by Earnest Money as specified in NIT in the form of pay order / demand draft issued by a schedule bank of Pakistan. The money will be adjusted in Retention Money of the successful bidders. The Earnest Money will be refunded to unsuccessful bidders immediately after award of work to the successful bidders but not later than 30 days from the date of opening.

12. SUBMISSION OF TENDER

The Tender Document duly signed on each page, corrections and over writing alongwith the Earnest Money for the tender shall be properly signed and sealed and clearly marked as TENDER FOR EXTERNAL DEVELOPMENT WORK (EXTERNAL DRAINAGE, EXTERNAL WATER SUPPLY, APPROACH ROAD, PUMP ROOM, WALKWAYS & LANDSCAPING) AT SHAH ABDUL LATIF UNIVERSITY KHAIRPUR SINDH and delivered in person or by registered mail or through courier service to the following address.

THE PROJECT DIRECTOR (PMU)
SHAH ABDUL LATIF UNIVERSITY
KHAIRPUR SINDH
PHONE NO. 0243-9280430

So as to reach on or before the time and date given in the notice of tender at which time and place they will be opened in presence of the representatives of the tenderers who may wish to be present. Only the name of the tenderers and the total prices shall be announced by the owner at the time of opening of the tenders.

In case of any calculation errors detected during scrutiny of the Tenders, the ___% age above / below quoted by the Tenderer shall be taken as final and the tender value corrected accordingly. For items based on non-schedule/market rates the unit rate shall be considered final and correction if any will be made accordingly.

13. AWARD OF CONTRACT

- a) The OWNER does not bind himself to award the Contract to the lowest or to any other Tenderer but will take into consideration all aspects as are deemed relevant and applicable. Once the OWNER has arrived at the decision, he will issue a written letter of Award to the successful tenderer. Thereafter, the successful tenderer will be required to execute a formal agreement. Failure of the successful tenderer to sign the agreement within the prescribed time-schedule shall be a just cause for the annulment of the award of the contract and in the event of such annulment, the Earnest Money of the successful tenderer will be forfeited by and to the OWNER.

14. MOBILIZATION

- a) If the tenderers to whom the notice of award is issued by the Owner does not mobilize at the site of work within the stipulated time and take all appropriate steps to commence the work, the Earnest Money deposited by him alongwith his tender shall stand forfeited in favour of the owner in liquidated damages.

15. COMPLETION TIME

- a) The work is to be satisfactorily completed in all respects within the period set forth in the Tender. Failure of the Tenderer to complete the whole of the work within the specified time will result in imposition and recovery of liquidated damages under the conditions of contract.

16. MAINTENANCE PERIOD

The maintenance period of the work shall be Twelve months effective from the date of issue of completion certificate by the OWNER.

17. UNIT RATES & SPECIFICATIONS

Unit rates indicated in B.O.Q are the rates indicated in Schedule of Rates Govt. of Sindh (2004). Specification of Standing Rate Committee Govt. of Sindh be followed (If specification of any item is not indicated in Technical Specification of Tender Documents) and / or items based on market rates, for which Technical Specifications are given in the nomenclature and in section "Technical Specification"

18. S.R. CEMENT (S.R.C)

Whenever specified S.R.C (Type v) should be used in sub-structure work. No extra payment will be made for the use of S.R.C.

19. CARTAGE / TRANSPORT EXPENSES

Cartage / Transport expenses of earth brought from outside the University premises / beyond one chain and of all material which is to be incorporated in permanent works should be included in the unit rates and No claim whatsoever will be accepted by the OWNER in this regard unless notified by Govt. of Sindh after award of work.

20. SPECIAL STIPULATIONS

In case of doubt special stipulations will take precedence over all other conditions of Contract.



SECTION – IV

GENERAL CONDITIONS OF CONTRACT

GENERAL CONDITIONS OF CONTRACT

1. DEFINITIONS AND INTERPRETATIONS

DEFINITIONS

In the Contract (as hereinafter defined), the following words and expression shall all have the meanings herein assigned to them unless the context otherwise requires)

- a) 'OWNER' means the M/S SHAH ABDUL LATIF UNIVERSITY KHAIRPUR SINDH, their legal successors and assignees.
- b) 'CONSULTANTS' means YOUNG ASSOCIATES, 38-C, 14th Commercial Street, Phase-II (Ext) DHA, Karachi-75500, Phone: 021-35312244, 021-35396444 appointed by the Owner as Consultants for the purpose of supervision of the 'WORKS' hereinafter defined.
- c) 'ENGINEER' means the person or agency for the time being or from time to time designated or appointed in writing by the Owner to perform the duties set-forth in article-4 hereof.
- d) ASSOCIATE means a firm / company hired to work in the trades of Electrical Installations / Air conditioning Installation or any other Special Trade having Valid PEC License in relevant category and a valid License issued by Electrical Inspector or any other License grating Agency for the respective Trade.
- e) 'WORKS' means to provide External Development Work i.e. External Drainage, External Water Supply, approach Road, Pump Room, Walkways & Landscaping by virtue of the contract to be executed, whether temporary or permanent and whether original, altered, substituted or additional in accordance with the contract.
- f) 'CONTRACTOR' means the person, firm or company whose tender has been accepted by the Owner and includes the Contractor's representatives, successors and permitted assignees.
- g) 'DRAWING' means the drawings showing the related details of architectural and structural, and other works including the layout plans, elevation, sections, details, perspectives, sketches and other details and also the drawings referred to in the specifications, and any modifications of such drawings approved in writing by the Owner, and such other drawings as may from time to time be furnished or approved in writing by the Owner.
- h) 'SITE' means the lands and other places on, under over, in or through the works are to be executed or carried out and any other lands or places provided by the owner for the purpose of the Contract together with such other places as may be specified in our pursuant to the contract as forming part of the site.
- i) 'TENDER' means the offer tendered by the Contractor for the works governed by the Contract.
- j) 'SPECIFICATIONS' means directions, provisions and requirements contained in the drawings or in the nomenclature or descriptions given in the Contract Documents and / or the verbal instructions of the OWNER (to be confirmed in writing)



- k) 'CONTRACT DOCUMENT' means and includes the Letter of Award, agreement, conditions of contracts, specifications, schedule of quantities, Tender drawings, details, sketches performance, insurance guarantee, Insurance Policies and all other papers pertaining to the construction work of this project. It shall also included any and all supplementary documents which may be necessitated to complete the work as required by the Owner.
- l) 'APPROVED' means approved in writing by Owner including subsequent written confirmation of previous verbal approval and 'approval' means approval in writing as aforesaid.

2. SINGULAR AND PLURAL

Words purporting the singular include the plural and vice-versa.

3. EXECUTION OF WORK

All works to be executed under the contract shall be executed under the overall direction and subject to the approval in all respects of the owner or his assignee.

4. ENGINEER

4.1. DUTIES AND POWER OF THE ENGINEER.

The duties and power of the Engineer are to watch and supervise the works and to test and examine any materials to be used or workmanship employed in connection with the works. He shall have no authority to relieve the contractor of any of his duties or obligations under the contract nor to make any variation of or in the work nor except as expressly provided hereunder order any work involving delay or any extra payment by the owner.

- i) Failure of the Engineer to disapprove any work or material shall not prejudice the power of the Consultants and the Owner thereafter to disapprove such work or materials and to order the pulling down, removal or breaking up thereof.
- ii) If the Contractor shall be dissatisfied by reason of any decision of the Engineer, he shall be entitled to refer the matter to the Owner who shall thereupon confirm, reverse or vary such decision. The Owner's decision in such a case shall be final and binding upon the Contractor.
- iii) The fact that the Owner or Engineer for whatever reasons, fail to detect defects in the layout or in the quality of the works executed shall not relieve the Contractor of his liability for rectifying the said defects in the layout or in the quality of the works at his own cost.



4.2. EMERGENCY POWERS OF THE ENGINEER.

Notwithstanding the provisions of Section 4.1 hereof, if in the opinion of the Engineer an emergency occurs affecting the safety of life or of the works or adjoining property he may direct the Contractor in writing to carry out all such work or to do all such things as may be necessary in the opinion of the Engineer to abate or reduce the risk. The contractor shall forthwith comply without appeal with any such direction of the Engineer.

5. CONTRACT DOCUMENTS

5.1. LANGUAGE

The Language according to which the Contract is to be construed and interpreted shall be English.

5.2. DOCUMENTS MUTUALLY EXPLANATORY

The several documents forming contract are to be taken as mutually explanatory of one another, but in case of ambiguities or discrepancies the same shall be explained and adjusted by the Consultant, who shall thereupon issue to the Contractor instructions directing in what manner the work is to be carried out. The provisions of special conditions of Contract shall prevail over the General conditions of contract and General conditions over those of any other documents forming part of the Contract.

5.3. CONTRACT DOCUMENTS COMPRISING CONTRACT.

All documents / papers indicated in FORM OF AGREEMENT shall form integral part of AGREEMENT subsequently.



6. PERFORMANCE BOND

The Contractor shall, within fourteen days after written Notice of Award has been issued by the Owner, provide a Bond from an approved Insurance Company to be jointly and severally bound with the Contractor to the Owner for the due performance bond in the form appended to tender an amount equal to 10% (ten percent) of the Contract price.

The performance bond shall be valid till the completion and end of the period of Maintenance. The cost of the bond so entered into shall be at the sole expense, of the Contractor.

6.1. INSURANCE OF WORKS ETC.

The Contractor shall insure in the joint names of the Owner and the Contractor, against all loss or damage from whatever cause arising for which he is responsible under the terms of the contract and in such manner that the Owner and Contractor are severed during the period of the commencement to the completion of the works and are also covered during the period of maintenance for loss or damage arising from a cause occurring prior to the commencement of the period of maintenance and for any loss or damage occasioned by the Contractor in the course of any operations carried out by him for the purpose of complying with his obligations.

- i) The works and temporary works to the full value thereof executed from time to time.
 - ii) The machinery, constructional plant and other things brought on to the site by the Contractor for the purposes of the contract to the full value of such materials, constructional plant and other things.
-
- a) Provided always that without limiting his obligations and responsibilities as aforesaid nothing in this clause contained shall render the Contractor liable to insure against the necessity for the repair or reconstruction of any work constructed with materials or workmanship not in accordance with the requirements of the Contract.
 - b) Such insurance shall be effected with an insurer and in terms approved by the Owner and the Contractor shall whenever required produce to the Owner the original policy or policies of insurance and the receipt for payment of the correct premiums. The contract price shall be deemed to include the Contractor's cost for the provision of such insurance.
 - c) All money received under any insurance mentioned in the Section shall be applied in or towards the cost of making good the loss or damage which has occurred but this provision shall not affect the contractor's liabilities under the contract.



6.2. DAMAGE TO PERSONS AND PROPERTY

The Contractor shall (except if and so far as the contract otherwise provides) indemnify and keep indemnified the Owner against all losses and claims for injuries or damage to any person or any property whatsoever which may arise out, or in consequence, of the performance of the Contract and against all claims, demands, proceedings, damages, costs, charges and expenses whatsoever in respect thereof or in relation thereto. Provided always that nothing herein contained shall be deemed to render the Contractor liable for or in respect of or to indemnify the Owner against any compensation or damages for or with respect to:

- i) The permanent use or occupation of land by the work for any part thereof.
- ii) Surface or other damage (caused by tenants or occupiers) to land or plants within the site which land or plants will be disturbed or damaged as an unavoidable result of the execution of the works.
- iii) The right of the Owner to construct the work for any part thereof on, cover, under, in or through any land.
- iv) Interference, whether temporary or permanent with any right of light, air, way, water or support or other easement or quasi easement which is the unavoidable result of the performance of the contract.

6.3. a) THIRD PARTY INSURANCE

Before commencing the execution of the works, the contractor shall, without limiting his obligations and responsibilities insure and, of the duration of the performance of the Contract, keep insured, in the joint names of the Owner and the Contractor against any damage, loss or injury which may occur to any property or to any person (including any employee of the Owner or Engineer or Consultants) by or arising out of the execution of the works or temporary works.

b) MINIMUM AMOUNT OF THIRD PARTY INSURANCE.

Such insurance shall be effected with an insurance company and in terms approved by the Owner and for at least the amount stated in the Tender and the Contractor shall whenever required produced the original policies of insurance and the original receipts for payment of the current premiums. The Contract prices shall be deemed to include the contractor's costs of premium and incidental to the provision of such insurance.



6.4. a) ACCIDENT OR INJURY TO WORKMEN

The Owner shall not be liable for or in respect of any damage or compensation payable in law in respect or in consequence of any accident of injury to any workman or other person in the employment of the Contractor or any of his sub-contractors and the Contractor shall indemnify and keep indemnified the Owner against all claims, demands, proceedings, costs, charges and expenses whatsoever in respect thereof or in relation thereto.

b) INSURANCE AGAINST INJURY TO WORKMEN

The Contractor shall insure against any such liability with an insurer approved by the Owner and shall continue such insurance during the whole of the time that any persons that are employed by him on the works and shall when required produce to the Owner, in original, such policy of insurance and the receipt for payment of the current premium. Provided always that in respect of any persons employed by any of his sub-contractors, the Contractor's obligation to insure as aforesaid under this clause shall be satisfied if the sub-contractor shall have insured against the liability in respect of such persons in such manner that the Owner is indemnified under the policy but the Contractor shall require such sub-contractor to produce in the original to the Owner when required such policy of insurance and the receipt for payment of the correct premium. The contract price shall be deemed to include the costs of such insurance by the Contractor and his sub-contractors.

6.5. a) REMEDY ON CONTRACTOR'S FAILURE TO INSURE

If the Contractor fails to effect and keep in force the insurances or any other insurance which he may be required to effect under the terms of the contract or any applicable Laws / Bye-Laws, then in any case the Owner may (without prejudice to any other right or remedies) effect and keep in force such insurance and pay such premium or premiums as may be necessary for that purpose and from time to deduct the amount so paid by the Owner as aforesaid from any moneys due or which may become due to the Contractor or recover the same as a debt due from the Contractor.

b) CONTRACTOR TO NOTIFY INSURERS

The Contractor shall notify the insurers of any of the insurance any matter or event which by the terms of such insurances are required to be so notified and the Contractor shall indemnify and keep indemnified the Owner against all losses, claims, demands, proceedings, costs, charges and expenses whatsoever arising out of or resulting from any default by the Contractor in employing with the requirements of this Section whether on account of the avoidance of any such insurance or otherwise.



7. GENERAL OBLIGATIONS

7.1. AGREEMENT

The Contractor shall, within Seven days after the written Notice of Award has been issued to him by the Owner, enter into and execute and Agreement (to be prepared at the cost of the Contractor) in the form appended to the Tender with such modifications as may be considered necessary by the Owner.

7.2. SITE INFORMATION

The Contractor shall be deemed to be in possession of all necessary information of the site and its surrounding, to have satisfied himself as to the nature of roads and as to possible interruptions thereto and the access to and exist from the site, to have made inquires as to the available accommodation for his staff and labour, to have made inquiries as to the sub soil water levels and the variations thereof, and drains, storms, prevailing winds, climatic conditions generally and other similar matters, to have satisfied himself as to the courses and means of obtaining adequate supplies of skilled and unskilled labour and also all materials required for the works and the transport thereof, to have considered the possibility of delays or inconvenience that may be caused to his operations by any reasons of the breakdown of communications, storms, floods, adverse weather conditions to have acquainted himself as to his liability for payment of Government taxes an other charges, to have examined the contract document generally to have obtained information on all matters whatsoever that might affect the carrying out of the works. The Contractor shall not be entitled to any claim if he fails to fulfill his obligation in acquiring the information before submitting his tender.

7.3. WORK TO BE DONE TO THE SATISFACTION OF THE OWNER

The Contractor shall execute, complete and maintain the works in strict accordance with the Contract to the satisfaction of the Owner and the whole of the materials, plant, labour and other things to be provided by the Contractor in pursuant to the contract and the mode, quality, manner and speed of execution and maintenance of the works shall be of a kind conducted in manner to the satisfaction of the Owner / Consultant.

7.4. COMPLIANCE WITH OWNER'S INSTRUCTIONS

The Contractor shall comply and adhere strictly to the Consultant's instruction and directions (subject to the limitations referred to in Article 3, 4 hereof) from the Engineer on behalf of the Owner regarding any matter (whether mentioned in the Contract or not) touching or concerning the works.



7.5. a) CONTRACTOR'S AGENT

The Contractor shall with the approval of the Consultant (which approval may at any time be withdrawn) employ and arrange whole time presence of a duly authorized agent or representative at the site. The said agent or representative shall have full authority to act for and on behalf of the Contractor and to bind the Contractor. The said agent or representative shall give his whole time superintendence to the works and shall act in harmony with the Owner and the Engineer. The said agent or representative shall not be remove by the Contractor from the works or the site without consent in writing of the Consultant.

b) AGENT TO RECEIVE INSTRUCTIONS

The agent and representative shall receive on behalf the Contractor the instruction of the Owner / Consultant or (subject to the limitation of Article 3 , 4 , 5 hereof) the Engineer.

7.6. CONTRACTOR'S EMPLOYEES.

The Contractor shall employ in and about the execution and maintenance of the works and provide at the site.

- i) Only such technical assistants, foremen and leading hands who are careful, skilled and experienced in their respective trades and are competent to give proper supervision to the work they are required to supervise, and
- ii) Such skilled, semi-skilled and unskilled labour as may be necessary for the proper and timely performance of the Contract.

7.7. ASSIGNMENT AND SUB-LETTING ASSIGNMENT

The Contractor shall not assign the Contract or any part thereof or any benefit or interest therein or there under without the prior written consent of the Owner.

SUB-LETTING

The Contractor shall not sub-let the whole of the works, except where otherwise provided by the Contract. The contractor shall not sub-let any part of the works without the prior consent of the Owner and such consent if given 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 sub-contractor, his agents, servants or workman.



7.8. SECURITY DEPOSIT

The security deposit of the Contractor to be retained by the Owner shall be 10 % of the total cost of the work carried out by the Contractor and it shall be deducted from each of the interim bill as well as from the final bill submitted by the Contractor shall be retained by the Owner until the expiry of defects liability period as guarantee of the good workmanship and good material used for the construction of Project.

8. MODE OF PAYMENT

The Contractor shall submit 3 (three) copies of the interim bill accompanied by three copies of the details of measurement to the Owner after achieving the value of work done upto the amount indicated in special stipulations.

The payment made on the basis of interim bills shall be regarded as an advance against the total cost of work till the final bill is scrutinized and the cumulative amount paid by the Owner to the Contractor shall be adjusted against the overall amount of the final bill.

9. TIME ALLOWED FOR COMPLETION

The time allowed for completion and handing over the work complete in all respects to the Owner shall be as specified and shall be deemed to be effective from the date of Letter of Award. The contractors shall commence the work within 07 (seven) days of award of work. In case the contractor fails to commence the work within the stipulated time, the contract may be awarded to any other Tenderer or party which serves the best interest of the Owner. The Contractor will pay as penalty Rs. 0.10% (Rupees Point One Zero Percent) of the Contract Cost per day for the number of days the work remains un-commenced upto the value of Earnest Money deposited by the Tenderer with the Tender.

10. EXTENTION IN COMPLETION TIME

The Consultants / Owner reserves the right to refuse / grant reasonable extension in completion time under special circumstances which the CONSULTANTS / Owner deem to regard as beyond the control of the contractor, and the Contractor has within One month after such circumstances have arisen or as soon thereafter as is practicable, delivered to the consultants full and detailed particulars of any claim to extension of time to which he may consider himself entitled in order that such claim may be investigated at that time.

11. PENALTY

The completion time stipulated is the essence of this contract and for each day for which the work remains un-commenced or unfinished after the proper dates, the Contractor shall pay to the Owner a sum of RS. 0.10% (Point One Zero Percent) of the contract value per day till such time the Project is completed in all respects and formally be handed over to the Owner, subject to a maximum of 10 % of the cost of the total works.



12. CONSTRUCTION SCHEDULE

Within 07 (Seven) days of the Award of the work the contractor shall submit to the Owner a detailed phasing of the Construction programme he process to adopt for completing the project within the stipulated period. If the Owner is not satisfied with this programme they may ask to revise the same to their satisfaction and the Contractor shall carry out the changes accordingly and will strictly adhere to this programme throughout the progress of the construction work. The Contractor will pay Rs.500/- (Rupees Five Hundred Only) per day for the delay beyond 07 days after the date of work order / Agreed Date of Commencement.

13. RIGHT TO ACCESS

The Owner and the Consultants reserve the right to enter upon the site at all times and the contractor or his representatives shall extend them all the cooperation for inspection of the quality and the progress of the Construction works.

14. REMOVAL OF EMPLOYEES WORKMEN AND FOREMEN.

The Owner shall have full powers at all times to object to the employment of any of the workmen, foremen or other employees on the works by the contractor and if the contractor shall receive a notice from the consultants, requiring the removal of any person or persons from the works, the contractor shall comply with the instruction forthwith. The Contractor shall not be entitled to demand the reason from the consultants for such notice.

15. SETTING OUT

The Contractor shall be fully responsible for correctly setting out the work on the site as per dimensions indicated in the drawings and if any error is found at any stage of the work, the contractor shall rectify the same at his own risk and expense accordingly.

16. DISCREPANCY IN DRAWINGS

Only the written dimensions shall be followed for all the drawings and details. However, it will be the responsibility of the Contractor to study, check and tally the drawing/details issued to him by the consultants. Before proceeding with the construction, he shall be deemed to have thoroughly satisfied himself about the accuracy of all drawings/details. If any discrepancy is detected by him, he should immediately bring it to the notice of the consultants and get the same rectified before proceeding with the work or else the responsibility for the faulty construction shall rest with the contractor.

17. REPLACEMENT OF DEFECTIVE WORK

The Contractor shall be responsible for strictly observing his obligations as regards the correct interpretation of the drawings, details, specifications, schedule of quantities or any other relevant part of the contract documents. If during the progress of the work any defect is discovered either in the use of materials or the workmanship the contractor shall at once demolish such work on receiving instructions from the Owner / Consultant, Agent or their accredited representative & replace the same as directed.



18. OWNER'S RIGHT TO IMPOSE PENALTY MEASURES

The Contractor shall strictly carry out the entire work according to the tender documents. However, at any stage of the execution of the work, if it is discovered that work carried out by the Contractor as regards the materials or the workmanship, or both, is not as per the drawings, details, specifications, and the instructions of the Owners / Consultant agent, the Owner reserve the right to impose the lump-sum penalty on the contractor disown / order to dismantle, or to reduce the tendered rates of the contractor to commensurate with the actual quality of the work as carried out by the Contractor.

19. GUARANTEE FOR GOOD MATERIALS AND WORKMANSHIP

The Contractor shall execute a guarantee specimen draft valid for entire liability period after completion and handing over the works to the owner as regards the use of good construction materials and workmanship for the entire work, if any defect is discovered after completion within the said period, the Contractor shall replace the defective works at his own expenses. However, in the event of the failure on the part of the Contractor to rectify and replace the defective works, the Owner instruct the other Contractor to rectify the same at the expenses of the Contractor and to adjust such amount from his Security Deposit. In case the cost of replacement of defective works exceeds the amount of Security Deposit lying with the owner, the extra, expenditure so incurred shall be recovered from the Contractor.

20. CLERK OF WORK

The Owner may appoint the site engineer or site supervisor who may henceforth be referred to as the clerk of works, under the orders of the Owner and having the powers and authority so delegated to him by the Owner. The duties of the clerk of works shall be to inspect and supervise the works according to the specifications laid down by the Consultants. He shall have no power to relieve the Contractor of any obligation under the Contract neither to make any variation order nor to order any work involving delay or extra expenditure.

21. INTIMATIONS FOR INSPECTION

The Contractor shall inform the Owner / Consultant when any part(s) of the work is ready for checking. No earth shall be backfilled until the Owner / Consultant agent has inspected the foundations and plinth work. Any part of the work which shall not be visible in the subsequent stage of its completion shall be got inspected / measured.

22. OBSERVANCE OF OWNER INSTRUCTIONS

The Contractor shall abide by the instruction of the Owner / Consultant or their duly accredited engineer or representatives as regards the progress and quality of the Construction. No work shall be continued without the approval of the Owners / Consultant. No concrete shall be poured in R.C.C. structures unless the reinforcement is checked and approved by the Owner / Consultant in writing (Pour Slip).



23. PROGRESS REPORT AND PHOTOGRAPHS

The Contractor shall regularly submit to the Owner / Consultant every month, the progress reports in quadruplicate so as to reach them in the first working day of every month. If the Owner / Consultant find the progress slow as compared to the Construction schedule already submitted and approved he may instruct the Contractor to increase the rate of progress and warn him about the possible enforcement of penalty clause and in that case the Owner / Consultant shall take the necessary measures to accelerate the work. In the event of failure by the Contractor to comply with such instruction or such warnings, the penalty clause shall be strictly imposed upon the Contractor if the contractor falls behind the stipulated completion period. The report of every fourth week shall be fully supported with photographs of post card size depicting the completed stages of the work. R.A Bill may not be paid unless Progress Report, Photographs, cube strength results and test results (from approved laboratory). When R.C.C work is claimed in the bill are submitted.

24. (A) MEETINGS ON PROGRESS OF WORK

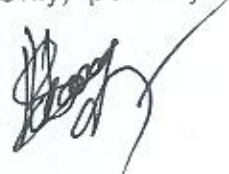
The Contractor and his Agent shall attend any or all meetings when called by the Owner / Consultant to discuss progress of the work and other matters related to the works and the contract.

(B) LIQUIDATED DAMAGES FOR DELAY.

Time shall be deemed to be the essence to the contract.

- a) It is agreed that the amounts specified hereinafter are reasonable compensation to the Owner without reference to the actual loss or damage sustained and whether or not any damage has or has not been sustained.
- b) If the work remains un-commenced at the expiry of the commencement period stipulated in the Tender, the contractor shall be liable (in addition to any other penalties liable under the contract) to pay to the Owner a sum of Rs. 0.10% (Point One Zero Percent) of the Contract Value for each day that the work remains un-commenced provided that the maximum amount under this sub-clause (excluding penalty or penalties under other sub-clause) shall not exceed 10 % (ten percent) of the contract price of the work.
- c) The contractor shall ensure good progress during the execution of the works and shall be bound in all cases to strictly comply with the programme submitted by him and approved by the owner under this contract.

In case the execution of work falls so much in arrears, behind the programme so as to necessitate a fresh programme the approval by the Owner / Consultant of the revised programme shall not be deemed to prejudice the power of the Owner to levy penalty under this sub-clause with scale prescribed in sub-clause(s) above and the contractor shall remain liable to pay, Rs. 1000/- (Rupees One Thousand Only) per day for the period revised programme had not been approved.



- d) If the Contractor shall fail to complete the works within the time prescribed by section 9 hereof or extended time, then the contractor shall pay to the Owner liquidated damages for such default and not as a penalty of Rs. 0.10% (Point One Zero Percent) of contract amount for each calendar day which shall elapse between the time prescribed by section 9 hereof or extended time as the case may be and the date of completion of the works but not exceeding a maximum of ten percent (10%) of the contract price. The Owner may, without prejudice to any other method of recovery deduct the amount of such damages from any moneys in his hands due or which may become due to the contractor. The payment or deduction of such damages shall not relieve the contractor from any other of his obligations and liabilities under the contract.
- e) If the contractor fails to complete the works in all respects or abandons in an incomplete state, or where his contract is rescinded due to breach of Agreement, the contractor shall be liable to pay to the Owner a sum equal to 10 % (Ten Percent) of the contract price as penalty.
- f) The Contractor shall not claim exemption from the penalties as aforesaid without obtaining a written approval of the Owner. Mere fact that the contractor has applied for such exemption would be granted. No such application for exemption shall be considered unless it is submitted within 07 days of the occurrence of the handicap resulting in the levy of penalty.
- g) The Owner may without prejudice to any other method or recovery, deduct the amount of the penalties including the amount paid to as remuneration for supervision beyond the time of completion a prescribed by the section 9 hereof or extended time as aforesaid from any moneys in their hand due or which may become due to the contractor.
- h) The payment or deduction of such penalties and / or liquidated damages shall not relieve the contractor from his obligation to complete the works or from any other of his obligation and liabilities under the contract.

25. FACILITIES TO OTHER CONTRACTORS

During the progress of the work, the contractor shall extend his full cooperation and coordination to other contractors for Civil, Plumbing & Electrical contractors or any other work in connection with the project to facilitate the early completion of the work.

Co-operations means supply of scaffolding, water, electricity and storage facility etc. etc. The Contractor may add expenses incurred in his premium for extending facilities to other contractor.

26. VALUABLE / ANTIQUES ETC

If during the excavation on the site any valuable or antiques are found, their ownership shall rest with the owner and the Contractor shall immediately hand these over to the owner.



27. SUB CONTRACTING

The sub-contracting of this work or part thereof shall not be allowed, however, in case the Contractor wants to sub-contract a part of the work, requiring specialized experience, he may ask for the permission of the Owner / Consultant to do so, but in no case the Contractor shall sub-contract with the work or any part thereof without the permission of the Owner.

28. STORAGE

It shall be the responsibility of the Contractor to protect the materials stored on the site for the use at appropriate stage of work, against weathering for that he shall provide adequate storage depots on the site at his own expenses. In the event of the damage to these materials on account of negligence of the Contractor, the Owner / Consultant shall order for removal of the materials from the site and replacement with fresh materials at the expense of the Contractor.

29. SAMPLES

The Contractor shall submit to the Owner for approval the samples of the material, fittings and fixtures which he may propose to use for the construction. He shall also provide the details of the origin of such samples to the Owner.

The Owner / Consultant may allow the use of these materials if he is satisfied with their quality. However, if he finds these samples not in conformity with the specification, he may reject them and ask the contractor to produce the required quality products. The contractor shall use only the materials fittings and fixtures of the approved quality.

30. USE OF SITE

The site handed over to the contractor by the owner for carrying out the tendered work shall not be used for any purpose other than the construction. Any activity other than related to the tendered work shall be considered to be illegal and tantamount to be the breach of the contract.

31. INDEMNIFICATION OF OWNER

The Contractor shall indemnify the owner in respect of all claims, damage, compensation or expenses by any workman or other persons in the employment of the contractor or not, while in vicinity or upon the said works or the site of the same and the owner shall not be responsible to defend all the suits, claims, damages etc. arising out of any activity or consequences thereof connected with the construction. Such activity shall include upon an alleged infringement of a prevented invention and or acts improperly carried out or omission to carry out a proper or delay in carrying out proper work.



32. SITE OFFICE AND STORAGE

The Contractor shall construct at his own expense the necessary site offices and toilet facilities both for his use and for the use of the owner. He shall also construct at his own expense the necessary godowns and storages and access roads if needed. He shall demolish if required by the owner all these structures and clear the site by removing debris.

33. TESTING OF MATERIALS

The contractor shall from time to time carry-out the testing of materials used for the construction as and when desired by the Owner at his own expenses, in the laboratories as approved by the Owner / Consultant. In the event of the un-satisfactory test results, the Owner / Consultant shall reject such materials and order demolition of the work constructed from these materials & further order the replacement of the same to meet the required specification at contractors own expense.

34. DEFECT LIABILITY

The Contractor shall be responsible for making good all the defects appearing within 12 (twelve) months after the satisfactory completion of works. The security deposit of the contractor shall be retained until after the expiry of this defect liability period.

If the Contractor fails to rectify the defects which are brought to his notice by the Owner / Consultant, the Owner / Consultant shall get these defects rectified from the security deposit at the risk of the Contractor. The owner may release the security deposit before the expiry of this period, in lieu of the suitable BANK Guarantee which shall be entirely to Owner's discretion.

35. FULFILLMENT OF CONTRACT

On completion of the contract work, the contractor shall intimate the Owner / Consultant in writing and arrange for joint inspection of the completed works by the Owner / Consultant. Who will scrutinize the completed work as regards its quality and adequacy in keeping with the contract documents.

If they find the completed works falling short of any of the specifications or other obligations under the contract, they may ask the contractor to rectify the same. If they find the works duly completed as per contract, they may issue the final certificate for payment to the contractor. However the fulfillment of contract shall not be considered until after the acceptance of the completed work.



36. FORFEITURE

If the contractor shall become insolvent to have an order admitting a petition in insolvency made against him or shall present his petition in insolvency or shall make an arrangement with or assignment in favour of his creditors or shall agree to carry-out the contract under a committee of inspection of his creditors or (being a corporation) shall go into liquidation (other than a voluntary liquidation for the purpose of amalgamation or reconstruction) or if the contractor shall assign the contract without the consent in writing of the owner first obtained or shall have an execution levied on his goods or if in the opinion of the OWNER the Contractor:

- a) Has abandoned the contract, or
- b) Without reasonable excuse has failed to commence the work or has suspended the progress of work for 15 (fifteen) days.
- c) Has failed to proceed with the works with due diligence, or
- d) Has failed to meet the desired schedule of progress of work, or
- e) Has failed to remove materials from the site or pull down and replace work for 15 (fifteen) days after the said material or work has been condemned and rejected by the Owner under these conditions, or
- f) Is not executing the works in accordance with the contract or is persistently or flagrantly neglecting to carry out his obligations under the contract, or
- g) Has to the detriment of good workmanship or in defiance of the Engineer 's instructions to the contrary sub-let any part of the contract, and so often as any of the events aforesaid shall occur, then the owner may adopt any of the following courses as it may deem best suited to the interest of the owner (without prejudice to any rights it may have against the contractor) after giving fifteen days notice in writing to the contractor.
 - i) Terminate the contract, enter upon the site and the works and expel the contractor there-from in which case the security deposit of the contractor shall stand forfeited and be absolutely at the disposal of the owner.
 - ii) Enter upon the site and the works and expel the contractor there-from without there by voiding the contract or releasing the contractor from any of his obligations or liabilities under the contract or affecting the rights and power conferred on the owner by the contract and may itself complete the works or may engage any other contractor to complete the works at the risk and cost of the contractor.



- iii) To complete the works or part of works by the owner at the cost of the contractor, viz to supply labour paid by the owner and to supply materials to carry out the works or any part of the works debiting the contractor with the cost (as hereinafter specified) of labour and materials and crediting with the value of the work done in all respects under same manner and at the same rates as if it had been carried out by the contractor under the terms of his Contract. For the purpose of this clause cost of labour shall be actual expenditure plus 25 % to cover overhead charges, if the materials have been supplied by the owner, the cost of material will be based on the market rate or stock issue rate whichever is greater plus 10 % overhead charges. The certificates of the authorized representative of the owner as to the value of the work done and as to the cost shall be final and conclusive against the contractor.

37. i) VALUATION OF VARIATION

The Owner shall determine the amount (if any) to be added to or deducted from the sum named in the tender in respect of any extra or additional work done or work omitted by his order. All such work shall be valued at the rate set out in the contract, if in the opinion of the Owner the same shall be applicable if the contract shall not contain any rates applicable to be the extra additional work then reasonable prices shall be fixed by the Owner.

ii) POWER OF OWNER TO FIX RATE

Provided that if the nature or amount of any omission or addition relative to the nature or amount of the whole of the contract work or to any part hereof shall be such that in the contract for any item or the works is by reason of such omission or additions rendered unreasonable or inapplicable the Owner shall fix such other rate or price as in the circumstances he shall think reasonable and proper. In the event of dispute the decision of the Owner shall be final.

38. VARIATIONS

a) CONTRACTOR NOT TO VARY WORKS.

The Contractor shall not make any variation in the works except in accordance with a written variation order of the Owner.

b) VARIATION ORDER

The Owner may from time to time make any variation in the form, quality or quantity of the works or any part thereof that may in his opinion be necessary and for that purpose or if for any other reason it shall in his opinion be desirable shall have power by a written variation order to order the contractor to do and the Contractor shall do any of the following:

c) (i) NOT TO INVALIDATE CONTRACT

No variation order shall in any way vitiate or invalidate the Contract but the value if any of all such variations ordered shall be taken into account in ascertaining the amount of the Contract price.

(ii) CHANGE IN QUANTITIES

No such variation shall be made by the Contractor without an order in writing by the Owner or his authorized representative provided that no order in writing shall be required for increase or decrease in the quantity of any work where such increase or decrease is not a result of an order given under the clause but is the result of the quantities exceeding or being less than those stated in the bill of quantities. Provided also that if for any reasons the Engineer shall consider it desirable to give any such order verbally, the Contractor shall comply with such order. Any confirmation in writing of such verbal order given by the Engineer whether before or after carrying out of the order shall be deemed to be an order in writing within the meaning of this clause.

(iii) NOTICE OF INTENDED CLAIMS

No claims for any variation shall be allowed except as per the provision contained in section 37. No increase of the Contract price under clause (ii) of this section shall be made unless as soon as practicable and not later than thirty days from the date of the variation order notice shall have been given in writing subject to the approval of the Owner.

(iv) CLAIMS

The Contractor shall send to the Owner once in every month an account of full and detailed particulars of all claims for any additional expense to which the Contractor may consider himself entitled and of all extra or additional work ordered by the Owner as per provision of clause (37) which he has executed during the preceding month and no claim for payment for any such work will be considered which has not been included in such particulars, provided always that the Owner shall be entitled to authorize payment to be made for any such work notwithstanding the Contractor's failure to comply with this condition if the Contractor has at the earliest practicable opportunity notified the Owner that he intends to make claim for such work.

39. MEASUREMENT

(i) RECORD OF MEASUREMENT

The contractor shall submit the interim bills to the Owner in triplicate with complete detailed measurements for scrutiny and approval.

The contractor shall be solely responsible for correct recording of the measurement of the items & get them checked by consultants before covering the hidden items.

40. SETTLEMENT OF DISPUTES

All questions, disputes will be settled as per prevailing law in Pakistan.



SECTION – V

SPECIAL CONDITIONS OF CONTRACT

SECTION – V
SPECIAL CONDITIONS OF CONTRACT

1. CONTRACTOR TO PROVIDE EVERY THING

The Contractor is to provide every thing of every sort and kind which may be necessary and requisite for the proper execution of the works included in the contract whether original or altered according to the intent and meaning of the drawings and specification taken together, which are to be signed by the Owner and the contractor whether the same may or may not be particularly described in the specification or shown in the drawings provided that the same are reasonably to be inferred there-from and in case of any discrepancy between the drawings and the specifications the Owner is to decide which shall be followed. The contractor shall also provide all necessary fencing and lights required to protect the public from accident, & shall be bound to bear the expenses of defence of every suit, action or other proceedings at law that may be brought by any person for injury sustained owing to neglect of the above precautions, and to any damages and cost which may be awarded in any such suit, action or proceedings to any such person or which may with the consent of the Contractor be paid to compromise any claim by any such person.

2. ESCALATION

No escalation on any of the materials or labour will be allowed, unless notified by Govt. of Sindh after award of work.

3. TEMPORARY POWER AND WATER

The contractors shall make their own distribution system for carrying the supply at the required location. The owners shall deduct 1 % each for water & electric supply provided to contractors from each interim payment towards the cost of supply as given in "Special Stipulations"

4. ANTITERMITE TREATMENT

The Contractor shall furnish an undertaking on judicial stamp paper of Rs. 20/- of satisfactory application of appropriate chemical and that they shall remain responsible for any attack of termite to the building for a period of 10 years from the date of handing over. The contractor shall also remain responsible to replace / repair of any building material damaged due to termite attack upto a period of 10 years. The payment shall be made on plinth area basis.

5. BAR BENDING SCHEDULE (FOR CIVIL WORKS CONTRACTOR ONLY)

The Contractor shall prepare bar bending schedule for commencing the work of cutting, bending and binding of the steel reinforcement of any structural member for approval of the Owner and for entering in measurement book.



6. AS BUILD DRAWING

After the completion of the project the following as build drawings should be submitted to the Owner. (To whom applicable)

- i) Plumbing / Drainage Layout Plans.

In service drawings all sizes and routing of pipes, indicated in different colours.

A handwritten signature in black ink, consisting of several overlapping loops and a long tail stroke, located on the right side of the page.

SECTION – VI

SPECIAL STIPULATIONS

SECTION – VI

SPECIAL STIPULATIONS

(FOR CIVIL, PLUMBING & SEWERAGE WORKS)

1	Works	Construction of Administration Block External Development Work (External Drainage, External Water Supply, approach Road, Pump Room, Walkways & Landscaping for SHAH ABDUL LATIF UNIVERSITY KHAIRPUR SINDH.
2	Owner	SHAH ABDUL LATIF UNIVERSITY KHAIRPUR SINDH
3	Owner's Representative	The Project Director (PMU) Shah Abdul Latif University Khairpur Sindh or any other person authorized by him.
4	Earnest Money	As indicated in the NIT and Form of Tender in shape of Payorder / Demand Draft issued by a Schedule Bank of Pakistan in favour of Shah Abdul Latif University Khairpur Sindh.
5	Time for commencement	Within Seven (07) days from the date of receipt of Owner's letter of Award.
6	Time for furnishing the programme	Within Seven (07) days from the date of receipt of letter of Award
7	Time of completion	03 Calendar months from the date of receipt of Owner's Letter of Award.
8	Defects liability period	12 calendar months from the effective date of taking over / completion certificate which ever is later.
9	Amount of liquidated damages	Rs.0.10% of value of Contract amount for each day of delay in Commencement / Completion of the works subject to a maximum of 10 % of contract price stated in the Letter of Award.
10	Retention Money	10 % of the amount of interim payment certificate. (Includes Rs.0.100 Million of Earnest Money.)

- 11 Limit of Retention Money 10 % of Final cost of the Project.
To be released after 365 days from the date of issuance of certificate of completion.
(All as per Sindh Public Procurement Regulatory Authority Rules)
- 12 Mobilization Advance. Up 10% (Ten percent) of the Contract amount, payable to the Contractor against irrevocable guarantee from a schedule bank approved by Owner after execution of the agreement and all other bonds.
(All as per Sindh Public Procurement Regulatory Authority Rules)
- OR
- 13 Secured Advance Secured advance may be paid against non-perishable items delivered at site, as (No secured Advance will be paid for cement being perishable item)
(All as per Sindh Public Procurement Regulatory Authority Rules)
- 14 Insurance cover for works. It shall be a contractor's, all risk policy and workman's compensation policy & cover an amount equal to full contract value & cost of equipment the labour employed by the Contractor as well as the Owner. Visitors and guests, insurance cover will be arranged by the company approved by the owner.
- 15 Minimum amount of interim payment certificate (Running Bill) Rs. 10,00,000/-
- 16 Performance Bond issued by Insurance Company 10% of the contract price stated in the Letter of Award in the form of Bond by an approved Insurance Company (as per attached form).

- | | | |
|----|--|--|
| 17 | Time required to enter into and execute the Agreement | 07 (Seven) days from date of Award of Work. |
| 18 | Escalation in the cost of Material, Labour & Cartage. | No Escalation and Cartage will be paid by the Owner, unless notified by Government of Sindh after award of work. |
| 19 | Dewatering in excavation | No extra payment will be made for dewatering encountered during construction of all sewerage structures. |
| 20 | Time of interim payment | Within 30 days from the date of delivery of the certificate by the Owner. |
| 21 | Charges for supply of water and power for construction work (if available) | 1% of the cost of Bill for each facility (1% for water 1% for electricity) |
| 22 | Income Tax Deduction | As per Law. |

ACCEPTED



Contractor's Signature
With Stamp & Date

SECTION –VII

FORMS FOR

- PERFORMANCE BOND
- AGREEMENT FORM
- MOBILIZATION ADVANCE FORM

SECTION – VII

To,

PERFORMANCE BOND

WHEREAS _____

(hereinafter called the Contractor) of the one part by an agreement made between The Project Director (PMU) Shah Abdul Latif University Khairpur Sindh (hereinafter called the Owner) of the other part, has entered into a Contract (hereinafter called the Contract) for the construction, completion and maintenance in conformity with the provision of the Contract works viz _____

AND WHEREAS in accordance with the provision of the Contract, the Contractor is required to furnish a Performance Bond for the due performance and observance of all the terms, provision and stipulations of the Contract by the Contractor & the Contractor has requested us _____ to issue the said Bond for an amount of Rs. _____ (Rupees _____ only) equivalent to 10% (Ten Percent) of the Contract price.

In consideration of the premises, we _____ Insurance Company Limited _____ hereby guarantee irrevocably and unconditionally forthwith to pay to the owner without any reference to the Contractor on the Owner's first demand in writing stating that the Contractor has committed a default under the Contract without any further statement of the particulars of such default and notwithstanding any contestation by the Contractor an amount not exceeding Rs. _____ (Rupees _____ only) limited do hereby further declare that no alternation in the terms of the Contract made by agreement between the Owner and the contractor or in the



extent or nature of works to be constructed, completed and maintained therein and no allowance of time by the Owner under the Contract not forbearance of forgiveness in or in respect of any matter or thing concerning the Contract on the part of the Owner shall in any way release this _____ Insurance Company from any liability under this Bond.

This Bond shall remain valid & in force upto the completion of works and completion of maintenance period and any demand for payment made by the Owner before the date of expiry of this Bond shall be paid forthwith by this _____ Insurance Company to the Owner.

Signed and delivered by the Contractor
Above named in the presence of

1 _____

2 _____



(CONTRACTOR)

Date: _____

Signed and delivered by the
Surety above named in the
presence of

1 _____

2 _____

(SURETY)

Date: _____

DRAFT AGREEMENT

This agreement made on this 22nd day of Dec 2010 between Project Director (PMU) Shah Abdul Latif University Khairpur Sindh hereinafter called the 'OWNER', of the one part and M/s AHAF HUSSAIN SHAICH S Co, hereinafter called the 'CONTRACTOR', party of the other part

WHEREAS the Owner is desirous to provide EXTERNAL DEVELOPMENT WORK (External Drainage, External Water Supply, approach Road, Pump Room, Walkways & Landscaping) should be carried out and has accepted a Tender by the Contractor for the construction, completion and maintenance of the above work.

NOW THIS AGREEMENT WITNESSTH AS FOLLOWS:

1. In this agreement, words and expression shall have the same meaning as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents shall be deemed to form and be read and construed as, part of this agreement, viz;
 - a. Tender Notice.
 - b. Instructions to Tenders.
 - c. General Conditions of Contract.
 - d. Special Conditions of Contract.
 - e. Special Stipulations.
 - f. Addenda and Corrigenda, if any, issued by the Owner and duly accepted by the Contractor at the signing of the Contract.
 - g. Earnest Money.
 - h. Form of Tender.
 - i. Notice of Award by the Owner.
 - j. Performance Bond.
 - k. Form of Agreement. / Contract Agreement.
 - l. Owner's Order to Commence the Works.
 - m. Limit of Retention Money.
 - n. Any correspondence by the Owner/Contractor mutually accepted by the Owner and the Contractor.
 - o. Technical Specifications.
 - p. Bill of Quantities.
 - q. Detailed / Working Drawings.

3. In consideration of the convenience and agreement to be kept and performed by the Contractor, and for the faithful performance of this contract and the completion of the works embraced therein, according to the specifications and conditions herein contained and referred to or agreed to in the course of subsequent negotiations and in accordance with the "General Conditions of Contract", the Owner shall pay and the Contractor shall received full compensation for everything furnished and done by the Contractor under this agreement, the contract price stipulated in the Contractor's tender, or such other sum as may be ascertained in accordance with such conditions of contract, etc, and rates quoted against each item or work and agreed to and accepted by the parties as one instrument and at the time in the manner prescribed by the conditions of contract.
4. The contractor, at his own proper cost and expense shall do all work and furnish all labour, materials, supplies, _____, tools, machinery and other equipment and constructional plant that may be necessary for the execution of the work.
5. The maintenance of a rate of progress in the work which will result in its completion within the specified time, is an essential feature of this contract and the contractor agrees to proceed with all dues diligence and care at all times and take all precautions to ensure the time of completion as defined herein, time being deemed to be the essence of the contract on the part of the Contractor.
6. The said works shall be started within 07 (Seven) days of the issue of Letter of Award from the Owner to the Contractor to proceed with the works, and the Contract shall be dully completed on or before _____.
7. The Contract documents (Including any addenda thereto) consisting of the Instructions to Tenderers, the Tender for works, General Conditions of Contract, Special Provisions and Stipulations, Bill Of Quantities & rates, Technical Specifications, Drawing, Performance Bond, Construction Schedule submitted by the Contractor, Letters of Award forming part of this contract, are each and all made a part hereof, and have the same force and effect as if set forth at length herein.
8. Insurance Cover will be arranged by the Contractor at his cost from the Insurance Company approved by the Owner, and submitted within 30 days from the receipt of Letter of Award.
9. The contractor shall provide Performance Bond from an approved Insurance Company equal to ten percent (10%) of the accepted contract value valid upto completion of work plus the end of maintenance period.



10. The Owner shall deduct and retain an amount equal to 10% (ten percent) of the amount payable to the Contractor under each "On Account" bill submitted by the Contractor as security deposit for the due and faithful discharge by the Contractor of his obligations under this agreement. The sum of such security deposit will be refundable to the Contractor after the successful completion and acceptance of works on expiry of twelve months of the maintenance period in a manner indicated in special stipulations. A sum of every bill submitted by the Contractor shall be recovered as income tax in compliance with Government directive from each payment.
11. That this contract agreement shall be executed in four original signed copies, three copies where of shall be filed in the office of the Owner and one given to the Contractor.
12. The owner shall make all possible efforts to pay off the running bills on account of work done, submitted by the Contractor as early as possible.

IN WITNESS WHEREOF, the Owner and the Contractor have executed this Agreement on the day and year mentioned above.


 FOR AND ON BEHALF OF
 CONTRACTOR

(SEAL)

Signed and delivered by the
 Contractor above named in the
 presence of :

WITNESS:

1. M/S Arsanullah S Co.

2. _____

PROJECT DIRECTOR (PMU)
 SHAH ABDUL LATIF UNIVERSITY
 KHAIRPUR SINDH
 (OWNER)

(SEAL)

Signed and delivered by the
 Owner above named in the
 presence of :

WITNESS:

1. M/S KIFAYAT Enterprise

2. _____

MOBILIZATION BANK GUARANTEE FORM

To,

Sir,

We understand that you have entered into Contract with:

Messrs _____

(Full Name and Address)

(herein reference to as our Customer) and that one of the conditions of the Contract is submission of Bank Guarantee in the sum of _____ against Mobilization Advance and at the request of Customer and in consideration therefore, we hereby agree and undertake as under:-

1. To pay to you on demand unconditionally and without any question and without any reference to our Customer an amount not exceeding the sum of Rupees

(in words)

as mentioned in your written demand notice in case of failure of M/s _____ to fulfill their obligation including non-completion of project within _____ months.

2. We hereby guarantee to pay the full amount of this guarantee (as indicated hereinabove) to be beneficiary if the Contractor.

a. Fails to utilize the amount of Mobilization advance for the purpose agreed / indicated in the Contract.

b. Fails to repay and or adjust the advance by _____ irrespective of any reason.

3. In case beneficiary decides not to encash the guarantee under para 2 (b) above we guarantee to pay the interest @ _____ % month to beneficiary on the balance amount of advance outstanding against our customer till the full amount is recovered.

4. The validity period of this guarantee is upto _____
_____ (date) unless otherwise extended by us,
or when its value has been reduced to nil, or upon presentation of a copy of the
Certificates with Clause _____ of the agreement, whichever is the sooner.
5. Claims, if any must be duly received by us on or before the validity date. Our Liability
under this guarantee will cease upon the close of banking business hours on this
date. Claims received thereafter will not be entertained by us whether or not you have
suffered and loss. On receipt of payment under this guarantee, this guarantee must
be duly cancelled, discharged and returned to us.
6. We _____ (Bank) further agree and declare that the
beneficiary shall have the fullest liberty without our consent or prior approval and
without affecting in any manner our obligations, to vary and of the terms and
conditions of the said agreement or to extend time of its performance by the said
contractor (s) from time to time or to postpone for any time or from time to time any of
the powers exercisable by the beneficiary against the contractor(s) and to forbear or
enforce any of the terms and conditions relating to the said agreement and be it
expressly declared that notwithstanding and such variation or extension being
granted to the contractor(s) by the beneficiary of the beneficiary in favour of the
contractor(s), the contractor(s) shall not be relieved of their liability by reason of such
variation, extension or acts of forbearance.
7. In order to give full effect to the guarantee herein contained, our liability shall not be
discharged or account of beneficiary forbearance, variation, extension nor shall we
claim any rights or surety ship in respect of any security which you might be having in
respect of the said agreement.
8. The maximum liability under this guarantee will be reduced equal to the amount
recovered by the beneficiary through the contractors running bills.
9. This guarantee, within the validity period shall not be affected by any change in the
constitution of the contractor or us nor shall it be affected by any change in
beneficiary constitution.

10. The guarantee shall come into force upon receipt by M/s _____ of the Mobilization advance.
11. This guarantee shall not be revocable by us except with beneficiary previous consent in writing.
12. It shall not be necessary for beneficiary to proceed against the contractor before proceeding against us and the guarantee herein contained shall be enforceable against us not withstanding any security which beneficiary may have obtained or obtain from contractor(s) at any time or when proceedings are taken against us.
13. We certify that our bank is a scheduled bank.

Guarantor

(_____ Bank Limited)

Bank seal and signature.

Contractor:

The signature should be of the same person who had signed the Contract.

WITNESS:

1. _____

2. _____

Full Name, Address and
N.I.C. No. of the Bank Official.

SECTION – VIII

TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATIONS

CIVIL WORK

SCOPE OF WORK

1. CONCRETE WORK

SCOPE OF WORK

The work covered by this section of the specifications consists of furnishing all labour, equipment, appliances and materials and in performing all operations in connection with concrete work complete in strict accordance with the applicable drawing and the specifications set here in and subject to the terms and conditions of the contract.

Electrical / Mechanical poker vibrator of suitable diameter shall be used for vibrating all concrete specially R.C.C. works.

- 1.1 Full cooperation shall be extended to other trades to install embedded items. Embedded items will be inspected and tests for concrete and other materials or for mechanical operations will be completed and approved before concrete is placed.

1.2 MATERIALS

i) WATER:

The water shall be free from impurities and fit for drinking purpose.

ii) CEMENT:

In all the R.C.C. structure, sulphate resisting cement (Type V) shall be used upto plinth level.

In super structure ordinary grey Portland cement (local) shall be used.

Use of imported cement is totally forbidden unless approved by the ENGINEER INCHARGE.

- iii) The Contractor shall provide at his own cost on the site all necessary sheds which shall be perfectly dry and water tight for the storing of cement to be delivered to the works to ensure adequate supplies being available for site work.

- iv) If at any time the Engineer Incharge consider that any batch of cement may have deteriorated on site during storage of any reason he will direct that tests shall be made and the batch of cement on the site which may be in question, shall not be used until it has been shown by test to be satisfactory. Any rejected cement shall be removed from the site by the Contractor without delay. Cement reclaimed from cleaning bags or leaking containers shall not be used.

- v) Cement shall be consumed in the sequence of receipt of shipment unless otherwise directed by the Engineer Incharge.

AGGREGATES

- i) All fine and coarse aggregate to be used shall be supplied from approved source which shall not be changed without permission in writing from the Engineer Incharge. Aggregate shall conform to the test requirements of B.S. No. 812 or equivalent ASTM or Pakistan Standard 243:1963.
- ii) Fine aggregate shall be approved sand to be obtained from Bholari or from other approved source and shall be clean sharp, free from clay, earth, vegetable and organic matters, alkaline or acid reactions or other deleterious matter or impurities.
- iii) Fine aggregates shall conform to British Standard specifications B.S. No. 882 and shall be graded as follows:

B.S. Sieve		Percentage (weight) Passing	
No.	(Grading Zone -1)	(Grading Zone - 2)	
3/8" (10mm)	100	100	
3/16" (5mm)	90 - 100	90 - 00	
No. 7	60 - 110	75 - 100	
No. 14	30 - 70	55 - 90	
No. 25	15 - 34	35 - 59	
No. 52	5 - 20	8 - 30	
No. 100	0 - 10	0 - 10	

- iv) Locally available Coarse aggregate shall be crushed stone and shall be clean free from sand, dust, salt, lime, chalk, clay, organic impurities or other deleterious matter.
- v) Coarse aggregate shall conform to the relevant British Standard specifications or ASTM Standard.
- vi) If required, aggregate shall be washed and screened to the satisfaction of the Engineer Incharge before use by making proper screening and washing.
- vii) Sieve analysis and other necessary tests of all aggregates shall be carried out as and when required by the Engineer Incharge. Sample for such tests shall be taken in the presence of the Engineer Incharge.
- viii) All costs in connection with the tests shall be borne by the Contractor.
- ix) All aggregates shall be subject to the approval of the Engineer Incharge. Any aggregates not found to the required standard shall be rejected by the Engineer Incharge and shall have to be removed from site without any delay. Concrete structures executed with rejected aggregates shall be dismantled and rebuilt and the contractor's expense.



2. CLASSIFICATION OF CONCRETE

Classes of concrete to be used in various parts of the works shall be indicated on the drawings and concrete of various grades shall be proportioned as set out in Table-1 appended hereto.

Table-1 showing minimum required compressive strengths of 6 in. x 6 in. x 6 in. (150 x 150 x 150 mm) cubes and minimum quantity of cement required per 100 cubic feet of finished concrete for various mixes and under various conditions.

Class of Concrete	Nominal Mix-Ratio	Min.Qnty Bags per % cft.	Work test Cube strength.	
			p.s.i at 7 days	p.s.i at 28 days
A	1:1:2	30	3000	4500
B	1:1-1/2:3	24	2500	3750
C	1 : 2 : 4	17	2000	3000
D	1 : 3 : 6	13.5	1000	1500
E	1 : 4 : 8	10.0	660	1000

The Mix-Ratio indicated in above table are only as guide line normally these ratios achieve the required strength but may vary due to quality of aggregates available in the area of work. The structural design is based on cube strength after 28 days. Therefore the strength should be achieved by design of mix.

To achieve the required strength is the sole responsibility of the Contractor. No Admixture is recommended for use in concrete for getting the required strength, if any Admixture is recommended by the Laboratory it may be used after approval from The Consultants at the entire RISK AND COST of the Contractor. No extra payment will be made in this regard even if the Admixture is approved by the Consultant.

3. PROPORTIONING OF CONCRETE MIXES

All concrete shall be proportioned by volume unless specifically allowed by Engineer Incharge. This proportions given in Table-1 above are suitable only when the specific gravities of the aggregate are in the region of 2.5.

The Contractor shall submit to the Engineer Incharge proposed mix designs for concrete to be used, based on preliminary laboratory test to determine proportion of cement, aggregate and water in the concrete conforming to the quality and strength requirement specified herein Preliminary test results of at least three different mixes of each class of concrete with varied water cement ratio shall be submitted. The results of 7 days and 28 days cube tests shall be used to establish the ration between 7 days and 28 days strengths.

The Engineer Incharge may make adjustments in the mix for a certain work. Preliminary design of mixes and testing shall be a responsibility of the contractor. The proportions voids in the aggregate shall be controlled and if it exceeds 45%, sand and consequently the cement shall be increased by the contractor without any charge. If the proportion is less than 40%, sand shall be decreased but not the cement.

4. WATER CEMENT RATIO

4.1 SLUMP TEST

A test of the plasticity and flowability of concrete should be made in the field in presence of Representative of Owner during every concrete operation. The slump cone is a sheet metal (or frustum of a cone) 12" high, 4" in diameter at the top and 8" in diameter at the bottom. After the mixer is fully emptied of a batch, the cone is filled in three layers, roding each layer 25 times with a 5/8" dia bullet pointed rod. The cone is then lifted and the slump is measured. The height of the pile will be less than 12". The allowable slump is generally defined in specifications.

4.2 MAXIMUM ALLOWABLE WATER CONTENT

All concrete specimens shall be made, cured and tested in accordance with British Standard or ASTM Standard. A curve representing the relation between the water content and the average 28 days compressive strength earlier strength at which the concrete is to receive its full working load shall be established for a range of value including all the compressive strength shown on the Plans. The curve shall be established by at least four points, each point representing average values for at least four test specimens. The maximum allowable water content for the concrete shall be as determined from this curve and shall correspond to strength 15% greater than indicated on the plans. The slump for concrete shall be minimum of 1" (25mm) and a maximum of 2-1/2" (75 mm) provided the requisite strength is obtained. Corrective additions to remedy deficiencies in aggregate gradations shall be used only with the written approval of the Engineer Incharge. When such permissions are permitted the material shall be measured separately for each batch of concrete.

5. SAMPLES AND TESTING

5.1 GENERAL

Test cubes concrete shall be provided and stored by the Contractor as and when directed by the Engineer Incharge. Test cubes shall be tested by the approved laboratory and the contractor shall bear the charges for the same.

5.2 Cement shall be tested as prescribed in British Standard or ASTM Standard, at the cost of Contractor.

5.3 AGGREGATES

Aggregates shall be tested at Contractor's cost as prescribed in British Standard 812. In additions, fine aggregates shall be tested for organic impurities in conformity with B.S. 812 or equal ASTM Standard.

5.4 TESTING OF CONCRETE

- a) All test cubes shall be 6 x 6 x 6 inch (150 x 150 x 150 mm) size.
- b) Specimens shall be cured under laboratory conditions except that the Engineer Incharge may require curing under field conditions.
- c) Three cubes of the set shall be tested at 7 (seven) days and 3 (three) shall be tested at 28 days or at such ages as directed by the Engineer Incharge.



- d) All cube moulds shall be steel moulds perfectly true having all internal and the meeting faces machined to smooth surface as approved by the Engineer Incharge.
- e) If the strength tests of the laboratory controlled specimens for any portion of the work falls below the minimum allowable compressive strength at 28 days required for the class of concrete used in that portion the Engineer Incharge shall have the right to order replacement of the affected work.

5.5 PLACING CONCRETE

- i) All concrete shall be thoroughly compacted and consolidated by means of pneumatic mechanical or electrical vibrators or other approved compacting method. Care shall be taken to avoid segregation due to excessive vibration and placing / dropping of concrete from a height of more than 7' - 0". The contractor shall maintain on site at all times one or more stand-by vibrators. Compaction shall be done until the whole mass assumes a jelly like appearance and consistency, with the water just appearing on the surface. Concrete shall be sufficiently tamped and consolidated around the steel rods, care be taken that the vibrator does not as such touch steel or form work.
- ii) Hardened concrete, debris and foreign materials shall be removed from interior of forms and from inner surface of mixing and conveying equipments.
- iii) Constructions joints in concrete shall only be given at location indicated in the drawings or as approved by the Engineer Incharge. At the end of the day's work the concrete shall be finished off against a temporary shutter stop which shall be vertical and securely fixed.
- iv) Should any part of the exposed surface present a rough uneven or imperfect appearance when shuttering is removed, it shall be picked out to the such depth and refilled and properly resurfaced as per directions of the Engineer Incharge.
- v) Whole work is to be smooth, pleasing and to the entire satisfaction of the Engineer Incharge.

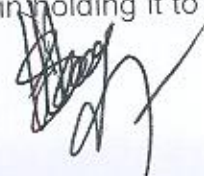
6. FORM WORK

6.1 GENERAL

The form work shall be inclusive of all labour, material, workmanship and alike. All formwork and supports thereto shall be designed by the contractor and relevant drawings shall be submitted to the Engineer Incharge for approval before the work is put in hand. Such an approval shall not relieve the contractor for all the obligations of the contract or give rise to any claims.

6.2 FORM WORK NOT TO INTEREFERE AND INJURE WORK.

The form work shall be so designed and arranged as not be unduly interfere with concrete, during its placing, and easy to be removed without injuring the finished concrete edges, clamps, bolts and tie rods shall be used, when permitted and where practicable, in making the form work rigid and in holding it to true position.



6.3 OPENINGS IN FORM WORK.

Wherever the concreting is required to be carried out within forms of considerable depths, temporary openings in the side of the form shall be provided to facilitate the pouring and consolidation of the concrete. Small temporary openings shall be provided at the bottom of all forms to permit the removal of rubbish etc.

6.4 OPENINGS IN THE STRUCTURE AND OTHER DETAILS.

Provisions shall be kept in the form work for openings such as recesses, holes, packets, fillets etc. for housing services and other architectural details in the finished concrete or on its surface and edges as shown on drawings or as directed by the Engineer Incharge to fix all necessary inserts, dowels pipe, holdfast, etc. as shown on drawings or as directed.

6.5 JOINTS IN FORM WORK.

All joints in the form work shall be sufficiently water tight to prevent undue leakage or cement slurry from concrete surface not to be exposed in the finished work. The joints in the form work for all concrete surfaces to be exposed in the finished work shall be water tight jointed and perfectly smooth so as not to allow any leakage of the cement slurry from the concrete.

6.6 TREATMENT AFTER REMOVAL OF FORMS.

All honey combing or other irregularities are to be properly made good upon the removal of the form work and the surface made good to the satisfaction of the Engineer Incharge. All such defects must be inspected by the ENGINEER INCHARGE before carrying out any remedial work.

6.7 No form work shall be measured and paid for separately and shall be deemed to be included in the units price of Concrete whether cast-in-situ or pre-cast and subsequently fixed in position.

7. FAIRFACE CONCRETE

Since most of concrete work (Specially Manholes) is casted with fair face finishing. Therefore it is suggested that steel form work may be used.

8. CLEARING AND REMOVAL OF RUBBISH

On completion of works herein the contractor shall remove all concrete debris, rubbish, shuttering materials, scraps etc. from the vicinity of the structures completed. All areas shall be cleaned to the satisfaction and approval of the Engineer Incharge.



REINFORCEMENT STEEL

9.1 SCOPE OF WORK

The work covered by this section of the specifications consists of furnishing all materials, tools, labours and in performing all operations in connection with providing, straightening, cutting, bending, binding and fixing in strict accordance with this section of specifications, the applicable drawings, bar bending schedule, (to be prepared by the CONTRACTOR as per terms and conditions of the contract).

The cost of laps, hooks, bends, u-bends, chairs, pins, spacer blocks and binding wire should be included in unit rate of steel. No. claim for any extra payment in this regard will be entertained.

9.2 MATERIALS:

- i. Reinforcing steel to be new billet stock of mild steel as specified on the drawings and shall conform to British Standard Specifications or equivalent ASTM or Pakistan Standard.
- ii. The Contractor shall furnish to Engineer Incharge, Manufacturer's mills certificate to guarantee that steel meets the standard, specifications, requirements and minimum certified yield stresses as follows:

ALL REINFORCEMENT STEEL SHALL CONFORM TO ASTM A-615

YIELD STRENGTH	60,000 Psi
ELONGATION	14 %

- 9.3 All steel to be true to the standard specifications with regard to bendability specifically the hard grade deformed bars under $\frac{3}{4}$ " shall be capable of being bent 4 times its own diameter without fractures or injury of any kind. In case of deformed bars $\frac{3}{4}$ " and 1-1/8" above round a bar of 6, times its own diameter.
- 9.4 18 gauge annealed wire shall be used for binding the steel reinforcement.
- 9.5 Samples shall be tested for above specifications in an approved laboratory when required by the Engineer Incharge and all costs of such tests shall be borne by the Contractor.



TECHNICAL SPECIFICATION

EARTH WORK FOR SEWERS

1 SCOPE OF WORK:

Work under this section shall consist of furnishing all material, equipment and labour for excavation, trenching and backfilling for sewers, drainage facilities, structures and all other appurtenances of sewerage collection system, in accordance with drawings to proper line and grade and refilling the trenches and dressing them to proper surface.

2 CLEANING AND GRUBBING:

The sites of all excavations shall be cleared of all shrubs, plants, bushes, large roots, rubbish and other surface materials. All such materials shall be removed and disposed of in a manner satisfactory to the Engineer Incharge. All trees and shrubbery, that are designated by the Engineer Incharge or his representative shall be adequately protected and preserved in an approved manner.

3 EXCAVATION:

3.01 General:

The Contractor shall do all excavation of whatever substance encountered to the depth shown on the drawings or as otherwise specified. Excavation shall include without classification the removal and disposal of all materials of whatever nature that would interfere with the proper construction and completion of the work and shall include the furnishing, placing and maintenance of supports for the sides of the excavations. The work shall also include all pumping, ditching, dewatering and other measures required for the removal and exclusion of water. During excavation, material suitable for backfilling shall be stock-piled in an orderly manner at a sufficient distance from the bank of the excavation to avoid over-loading and to prevent sides from caving. Top soil should be unsuitable or not required for backfilling shall be removed and disposed of at a location approved by the Engineer Incharge.

3.02 Earth Excavation in Trenches

Except as otherwise provide herein, excavation for a sewer line shall be open-cut trenches with vertical side and not more that 200 feet of any trench in advance of the end of the built sewer shall be opened at any time and unless written permission to the Contractor is given by the Engineer Incharge. The trench shall be excavated to its full depth for a distance permitted for the sewer to be laid. Trenches for sewer-lines and appurtenances shall be to the lines and graded shown on the drawing or as ordered in writing by the Engineer Incharge as necessary for the proper completion of the work. Bell holes and depressions for joints shall be dug after the trench bottom has been graded. The pipe except for joints shall rest on the prepared bottom for its full length. Bell holes and depressions shall be only of such length, depth and with as required for properly making the particular type of joint. Stones shall be removed to avoid point bearing.



Where the bottom of the excavation is in material which in the judgment of Engineer Incharge by reason of its hardness can not be excavated to provide a uniform bearing for the pipe, said material shall be removed to minimum of 6 inches below the grade of the bottom of the pipe, and the trench backfilled to be required pipe sub grade with river sand or other material acceptable to the Engineer Incharge. Backfill material shall be compacted to the required depth with concrete grade if so ordered. In no case material removed from such excavation shall be used as backfill material unless approved by the Engineer Incharge. All instructions shall be in writing by the Engineer Incharge.

3.03 Earth Excavation for Structures:

All earth excavation under this contract, which is not included under the classification of Earth excavation in Trenches shall be classified and paid for as earth excavation for structures.

The Contractor shall provide adequate timbering or shoring for excavations. Should the sides and ends of any excavations give way the contractor shall, at not extra cost, remove all disturbed ground. Any excavation carried outside the limits shown on drawings and specified herein as the payment limits, shall not be treated as excavation and shall not be paid for.

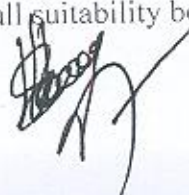
When foundation level is reached, the Engineer Incharge representative will inspect the exposed ground and give direction as to what further excavation, if any, he considers necessary. The excavation should be done in such a manner, as to ensure that the work rests on a solid and perfectly clean foundation. If the Contractor allows any portion of such foundations to deteriorate due to exposure, he shall make good foundation to the satisfaction of the Engineer Incharge with out extra cost.

4 ALIGNMENT AND GRADE:

The sewer are to be laid to the alignment and gradient shown on the drawings, but subject to such modifications as shall be ordered by the Engineer Incharge from time to time to meet the requirements of the works. No deviations from the lines, depths for cutting or gradients of the sewers shown on the plans and sections shall be permitted excepted by express directions in writing of the Engineer Incharge.

5 SETTING OUTSIGHT RAILS:

The sewers shall be constructed and laid to a true grade in straight lines between curves as shown on the plan. The sewer shall be laid and constructed to their proper levels with the aid of suitable boning rod and sight rails which shall be fixed according to the requirements of the Engineer Incharge at intervals not exceeding 50 feet, and also by leveling along the invert with leveling instruments. The sight rails and boning rod shall be provided, fixed and maintained by the Contractor who shall also provide and maintain suitable leveling instruments and equipment and shall set the positions and levels of the sewers and other work according to the drawings and any instructions which he may receive from the Engineer Incharge. All sight rail and posts shall be well seasoned deodar timber of ample size and strength. The rails and boning rod shall be suitable and accurately planned and not warped or otherwise defective. No sight rails or boning rod shall be used. Sight rails shall be secured to the posts by strong steel clamps to the approval of the Engineer Incharge and in such a manner that they shall be fixed as immovable, in relation to the correct lines and levels. All boning rods and sight rails shall have the centre line accurately marked thereon, by the thin saw cut and shall be painted black white to the requirements of the Engineer Incharge. All boning rods shall suitably be shod with iron.



At least four separate sight rails shall always be maintained in correct level and alignment along the line of sewer at every place where construction work is proceeding and the alignment and level of the sight rails shall be checked by the level and line at least twice every day to ensure that no disturbance or interference of the alignment and level have taken place. Whenever required the Contractor shall erect and maintain such additional sight rails as the Engineer Incharge shall direct. The Contractor shall, at all times, see that his workmen or other unauthorized persons are not allowed, accidentally or otherwise, to tamper or interfere with sight rails or other alignment or level marks.

All bends and curves shall be set out mathematically in manner to be approved by the Engineer Incharge and the Contractor shall provide and maintain for the purpose such additional sight rail posts and other wrought and rough timber work, steel wire and other articles as the Engineer Incharge shall require from time to time.

6 **SHEETING AND BRACING:**

If ordinary open-cut excavation is not possible or advisable, sheeting and bracing shall be furnished and installed in excavations to prevent damage and delay to the works and to provide working conditions which are safe. The Contractor shall furnish and place all shoring, sheeting, walls, braces, timbers and similar items necessary for the safety of work, the general public and adjacent property. Sheeting; shoring and wall bracing shall be removed as the work progresses and in such manner as to prevent damage to the finished work and adjacent structures and property. As soon as it is withdrawn all voids left by the sheeting and bracing shall be carefully filled with selected material and compacted. The contractor shall be fully responsible for the safety of work in progress, for the finished work, the workmen, the public expenses, as part of the work under the excavation items and at no extra cost.

7 **DEWATERING OF TRENCHES AND ALL OTHER STRUCTURES (SEWERAGE WORKS:**

As part of the work under the excavation items and at no extra cost, the Contractor shall build all drains and do ditching, pumping, well-pointing, bailing and all other work necessary to keep the excavation clear of ground water, sewerage and storm water during the progress of the work and until the finished work is in progress of the work and until the finished work is safe from injury, the Contractor shall provide all necessary pumping equipment, for the dewatering work, as well as operating personnel, maintenance, power etc., all at no extra cost. All water pumped or drained from the work shall be disposed of in a manner satisfactory to the Engineer Incharge. Necessary precautions against flooding shall be taken. **No** extra payment will be made for dewatering.

8 **MAINTENANCE OF EXCAVATION:**

All excavation made hereunder shall be properly maintained while these are open and exposed. Sufficient suitable barricades, warning lights, signs and similar items shall be provided at site. The Contractor shall be responsible for any personal injury or property damage due to his negligence.

9 **PROTECTIONS OF EXISTING FACILITIES:**

The Contractor shall take special care with existing sub-surface facilities likely to be encountered during the excavation for their protection, such as sewers, drain pipe water main conduit electric cable, communications cables and the foundations to adjacent structures. The Contractor shall be responsible for any damage to any such facility and shall repair the same at his expense whether or not the facility has been shown on the drawings.

10 DISPOSAL OF SURPLUS EXCAVATED MATERIAL:

All surplus material excavated by the Contractor shall be disposed of at locations approved by the Engineer Incharge. The disposal of surplus material shall not interfere with other works and shall not damage or spoil other materials. When it is necessary to haul earth material over streets or pavements, the Contractor shall prevent such material from falling on the streets or pavements.

11 BACKFILLING:

11.01 General

After the completion of sewer line, drainage facilities foundations, walls and other structure below the elevation of the final grade all voids shall be backfilled with suitable materials specified below.

11.02 Backfilling for Structures:

Backfilling operations for structures shall be performed as part of the Contractor's work under the payment items for earth excavation and at not extra cost. Backfill materials for foundations, walls and other structures shall consist of excavated soil such is free from stones and hard clods not larger than 3 inches in any dimension, and also free from trash, lumber and other debris, backfill material shall have enough moisture for proper compaction and shall be compacted in an approved manner to 85 percent of maximum density for cohesive soils and 90 percent of maximum density of cohesionless soils. Backfill shall not be placed against foundation walls earlier than 4 days after placing of concrete or brick masonry.

11.03 Backfilling for Trenches:


After the sewers have been constructed proved to be water tight as per direction of the Engineer Incharge, the trench shall be backfilled. Utmost care shall be taken in doing this so that no damage shall be caused to the sewer and other laid in the trench and other excavation shall be backfilled carefully in 6 inches layers with hearth as approved by the Engineer Incharge, each layer being watered to assist in the compaction unless the Engineer Incharge shall otherwise direct.

12 MAXIMUM DENSITY DETERMINATION FOR COMPACTED SOIL:

The maximum density of the soil shall be determined in accordance with the latest revision of "American Society for Testing Materials (ASTM) Standard D-1557 density relations of soils, using 15 lbs. rammer and 18 inches drop".

13 TESTING DENSITY OF SOIL:

The Engineer Incharge will make tests using the calibrated sand cone method/core cutter method to determine the density of soil in place in accordance with ASTM Designation D-2558, latest revision. If soil in place fails to meet the specified degree of compaction the areas represented by the failing test shall be re-excavated and compaction to the specified density in the manner directed by the Engineer Incharge at no extra cost.



14 **TOP SOIL:**

Top soil which has been stockpiled during excavation shall be used for the top 6 inches of backfill, in locations as ordered by the Engineer Incharge. Top soil shall be saturated with water and after it has dried, shall be spread to the required final grade and of required density. The work shall be performed at no extra cost.

15 **PROXIMITY TO BUILDINGS:**

Where buildings in the opinion of the Engineer Incharge near excavation are likely to be affected, the Contractor shall provide proper shoring to protect such buildings in addition to timbering of trenches. The Contractor shall be required to leave timbering inside trenches if so required by the Engineer Incharge for protection of these building at no extra cost.

16 **LENGTH OF TRENCHES IN ADVANCE OF CONSTRUCTION:**

Unless otherwise directed in writing by the Engineer Incharge of the work not more than 200 feet in advance of constructed or laid sewer shall be left open at any time. The trench shall however, be excavated to full width to minimum length of 16 feet in advance of the constructed laid sewer unless otherwise directed by the Engineer Incharge.

17 **DISPOSAL OF FILTH AND GARBAGE:**

During night no soil filth and garbage met with during the excavation shall be allowed to be deposited on side of road / street so as to cause nuisance or obstruction to traffic. The same shall be disposed of by the Contractor to a place to the satisfaction of the Engineer Incharge.

18 **DISPOSAL OF SURPLUS EARTH:**

The Contractor shall dispose of all surplus excavated materials not required to be used on the work. This shall include surplus earth after refilling and compaction.

19 **MEASUREMENT / PAYMENTS:**

Measurement shall be made for the actual quantity in 1000 Cft. of excavated trenches. The maximum width of trenches allowed for payment will be as follows;

- a) Trenches not exceeding 7' in depth, 4'-0" plus external diameter of the barrel for pipe sewers.
- b) Trenches exceeding 7' not exceeding 10' in depth, 6'-0" plus external diameter of the barrel for pipe sewers.
- c) Trenches exceeding 10' in depth, 8'-0" plus external diameter of the barrel for pipe sewers.



CONSTRUCTION OF MANHOLES

1. GENERAL:

The work consists of constructing manholes for sewerage, drains at positions shown on the drawings or where otherwise directed by the Engineer Incharge, and in accordance with the detailed drawings.

2. DESCRIPTION OF WORK:

Manholes upto any depth shall be circular in shape 3' - 6" dia at bottom (Internal) and 2' - 0" dia at top (Internal).

Manholes shall be constructed with 9" thick P.C.C 1:3:6 walls finished fair face using steel form work with nominal reinforcement of $\frac{3}{8}$ " \varnothing Tor bars 12" C/C both ways in manholes of depth more than 5'-0". Floor should be 6" thick P.C.C (1:4:8) bed at bottom and 4" thick P.C.C 1:2:4 over bed concrete with Benching and channels in 1:2:4 P.C.C (Not less than half depth of pipe).

Bottom of Manhole should be constructed on the centre line of pipe line.

The rungs shall be fixed at an interval of 12" and shall project out at least 4" and should not be less than 1'-0" wide. Top rung should be 18" below the manhole cover and the lowest not more than 12" above the trenching floor.

Manhole cover should be 1:2:4 R.C.C.I. 4" thick with 4" wide & $\frac{1}{8}$ " thick 2'-0" dia. M.S Circular ring, Angle iron of 2" x 2" x $\frac{1}{4}$ " section should be fixed in circular shape to receive R.C.C. manhole of 2'-0" dia. The manhole cover should be loose fit.

3. MATERIALS:

3.01 Sulphate Resisting

It shall conform to the requirements and specifications. (Source: Lucky Karachi or D.G. Khan)

3.02 Aggregates:

Coarse and fine aggregated shall conform to the specifications. (Source: Coarse aggregates: Ubhan Shah, Fine aggregate: Bholari)

3.03 Rung Ladders / Manhole Steps:

These shall be of galvanized malleable cast iron conforming to B.S.S 1247.



SECTION – IX

FORM OF TENDER

FORM OF TENDER

EXTERNAL DEVELOPMENT WORKS

EXTERNAL DRAINAGE, EXTERNAL WATER SUPPLY,
APPROACH ROAD, PUMP ROOM, WALKWAYS & LANDSCAPING

AT

SHAH ABDUL LATIF UNIVERSITY
KHAIRPUR - SINDH

THE PROJECT DIRECTOR (PMU),
SHAH ABDUL LATIF UNIVERSITY
KHAIRPUR SINDH

Dear Sir,

1. Having examined the instructions to Tenderers, Conditions of Contract, Special Stipulations, Appendices, Specifications, Bill of Quantities and Drawings for the construction, completion and maintenance of the above named works, we, the undersigned Tenderer, offer to construct, complete and maintain the whole of the said works in accordance with the said Conditions of Contract, Special Stipulations, Appendices, Specifications, Bill of Quantities and Drawings for the Tender Price of Pakistani Rupees _____.
2. Should a Notice of Award accepting this Tender be issued to us, we undertake;
 - a) to abide by and fulfill all the terms and provisions of the Conditions of Contract contained in the documents mentioned above.
 - b) to commence the works within 07 (Seven) days of receipt of the OWNER's written order to commence, and to complete and deliver all the works comprised in the contract on or before the expiry of 03 (Three) calendar months, after receipt of the said order to commence.
 - c) to sign within 07 (Seven) days following the issue of the said Notice of Award and Agreement with such alterations and additions thereto as you may require to adopt such Agreement to the circumstances of this tender, and for this purpose, to attend or to cause one or more representatives duly authorized by us under appropriate power(s) of attorney to attend you office.



3. We agree that this Tender shall remain valid for a period of 90 (ninety) days from the date set for opening the Tenders and it shall remain binding upon us and may be accepted by you at any time before the expiration of the said period.
4. We further agree to pay all costs towards the execution of the formal agreement including the cost of stamps.
5. We understand that unless and until a formal Agreement is prepared and executed, this Tender together with the Tender Documents and Notice of Award accepting this Tender, shall constitute a binding contract between us.
6. We also understand that you are not bound to accept the lowest or any Tender you may receive.
7. As a guarantee for the performance of the undertaking and obligations of this Tender we submit herewith Rs. 100,000/- (Rupees One Hundred Thousand Only) as Earnest Money in the form of a Pay Order / Demand Draft No. 0013027 dated 22-12-10 of the Bank Islami Pakistan Bank Ltd, Branch Auto Blan 1020 HYD being a Scheduled Bank, made in your favour and made payable to you, without any reference to us, and valid for 90 (ninety) days from the date established for opening of Tenders.
8. We certify that we clearly understand the terms and conditions of agreement as explained in the Tender Documents.

WITNESSES

1. M/S Amanullah & Co.

2. M/S KIFAYAT Enterprises

Name and Address
Of Tenderer

Altaf Hussain Shaikh
Bungalow No B-34 G.M.B
Colony Qadriya Hyderabad
Govt: Contractor

Title of Person
Signing the Tender

M/S Altaf Hussain Shaikh & Co

Seal _____

M/S Altaf Hussain Shaikh & Co
Govt: Contractor

SHAH ABDUL LATIF UNIVERSITY KHAIRPUR – SINDH

LISTS OF SPECIFIED MATERIAL

EXTERNAL DEVELOPMENT WORKS FOR ADMIN BLOCK

EXTERNAL DRAINAGE, EXTERNAL WATER SUPPLY,
APPROACH ROAD, PUMP ROOM, WALKWAYS & LANDSCAPING

S.NO.	MATERIAL	BRAND NAME	MANUFACTURER	AGENCY / DISTRIBUTOR	SOURCE
1	ORDINARY PORTALAND / SULPHATE RESISTANCE CEMENT	LUCKY DG KHAN			KARACHI DG KHAN
2	CRUSHED STONE				UBHAN SHAH
3	SAND				BHOLARI
4	STEEL (BILLET)				KARACHI
5	BRICKS				LOCAL
6	G.I. PIPE MEDIUM QUALITY FOR WATER SUPPLY	I.I.L			KARACHI
7	FLOW LINE PIPES FOR DRAINAGE WORKS	DADEX OR EQUIVALENT APPROVED			KARACHI
8	MANHOLE FRAME & COVER (CI)		ALPINE OR EQUIVALENT APPROVED		
9	SUBMERSIBLE WATER PUMP FOR 100 GMP (WATER SUPPLY)	GRUNDFOS OR EQUIVALENT APPROVED			KARACHI
10	SUBMERSIBLE PUMPS FOR SEWERAGE WATER	PEDO 10/50 – 1 OF KSB			KARACHI
11	EARTH FOR SUBBASE (ROAD WORK)				LOCAL
12	PAVERS (APPROVED BRAND, SHADE & COLOUR)		ENVICRETE OR EQUIVALENT APPROVED		KARACHI
13	BITUMEN				KARACHI


M/s. Altaf Hussain Shaikh & Co.
Govt: Contractor

SECTION - XI
BILL OF QUANTITIES

SHAH ABDUL LATIF UNIVERSITY KHAIRPUR

EXTERNAL DEVELOPMENT WORK - ADMINISTRATION BLOCK

SUMMARY OF COST

(1). EXTERNAL WATER SUPPLY

a. Schedule Item

Rs. 76109/-

b. Non-Schedule Item

Rs. 1200000

Total (a+b)

Rs. 1276109/-

(2). EXTERNAL SEWERAGE SYSTEM

a. Schedule Item 105 10454 x 500% above.

Rs. 62724

b. Non-Schedule Item

Rs. 1722775

Total (a+b)

Rs. 1785499/-

(3). ROADS, WALK WAYS & LANDSCAPING

a. Schedule Item 1044 621 x 40% above

Rs. 1462469/-

b. Non-Schedule Item

Rs. —

Total (a+b)

Rs. 1462469/-

Kerb Stone & Pavers. 376800

Total (1 + 2 + 3)

Rs. 4900877/-

Amount carried to Form of Tender

Total 4900877/-

Abul Latif
PROJECT DIRECTOR (PMU)
SHAH ABDUL LATIF UNIVERSITY
KHAIRPUR SINDH

[Signature]
CONTRACTOR
Signature & Seal

M/s. Ahsan Hussain Phaiikh & Co.
Govt. Contractor

[Signature] P.M.
Abul Latif 22/12/2010
[Signature]
[Signature]
[Signature]
[Signature]

YOUNG ASSOCIATES

NAME OF WORKS: EXTERNAL DEVELOPMENT WORK - ACADEMIC BLOCK

CLIENTS: SHAH ABDUL LATIF UNIVERSITY KHAIRPUR

JOBS DESCRIPTION: BILL OF QUANTITIES (WATER SUPPLY)

S.No	Description	Quantity	Rate (Rs)	Unit	Amount (Rs.)
	<u>A - SCHEDULE ITEM</u>				
Item-01	Providing G.I Pipes & special etc including fixing cutting and fitting complete with and i/c the cost of cutting trench upto 2-1/2" feet deep refilling water ramming & disposal of surplus earth with in one chain and painting two coats of bitumen paint to pipe & special after cleaning and hassian cloth soaked in a maxphalt composition wrapped tightly round pipes & testing to a pressure head of 200 feet and handling.				
	(viii) 3" dia G.I Pipe Item-1 (viii) Page-12	220 Rft	125.80	P.Rft	27,676
			Total		27,676
	Add / Deduct <u>175%</u> above / below				48433/-
	Amount carried to summary				76109.


 M. A. Hussain
 Govt: Contractor

S.No	Description	Quantity	Rate (Rs)	Unit	Amount (Rs.)
Item-01	<p align="center"><u>B - NON - SCHEDULE ITEM</u></p> <p><u>PROVIDING AND INSTALLING TUBE WELL COMPLETE IN ALL RESPECT WITH FOLLOWING DESCRIPTIONS.</u></p> <ol style="list-style-type: none"> 1. Drilling of 12" dia bore hole upto 100 ft in all kinds of soil including mobilization and demobilization of machinery and equipment from Karachi / Khairpur / Sukkur. 2. Supply and fix 8" dia class D PVC slotted casing of 1.0mm horizontal slots with bottom cone and other accessories(DADEX Brand). (From 0.0' To 40' Blank casing and 40.0 to 80.0 ft slotted casing). 3. Provide & fill silica Graded Gravel. 4. Back wash to clean screen pipe by compressed air. 5. Supply and fix G.I. Medium grade Riser piping (3"Ø) with bottom nipple and accessories. (I.I.L. or approved brand) 6. Supply and wrap the PVC slotted casing with Geo-fabric Jali. 7. Supply and install 100 GPM submersible pump (GRUNDFOS Brand or equivalent approved) 10.00 HP, 70 ft head i/c cost of power cable from Main D.B of Admin Block, MCU and other accessories. 8. Providing and fixing connection to nearest O/H tank from pump through G.I Medium grade 3"Ø pipe of I.I.L. or approved brand. 9. Construction of concrete cabinet 4' x 6' x 2' deep for providing installation of MCU etc. with proper power control / supply to operate pump as per details provided and directed by Engineer Incharge <p>Notes:</p> <ol style="list-style-type: none"> i). Contractor to include all such works which are not included above but is required to deliver fully operational tube well of capacity as required. ii). Contractor to make all provisions and coordinate all such tube well related civil works according to the pace of building related works. iii). All tube well works shall be carried out strictly in accordance with the specifications. <ol style="list-style-type: none"> a. Tube well related civil works, which is necessarily required to be carried out. b. Electrical and mechanical works which includes pumps, motor and relevant electrical and mechanical works to be carried out with the building works. v). Contractor shall provide warranty / guarantee of smooth and trouble free operation for atleast five(5) years from the date of commissioning and handing over to the Employer for the entire tube well works. vi). Contractor to submit complete turnkey proposal (all relevant technical literature, pump and motor details and proposed tube well drawings and details for Engineer's review and understanding purpose without any obligation on Engineer for its correctness or otherwise. The Contractor is fully responsible for the performance of the tube well. 	1	1200000	Lump Sum	1200000/-
	Amount carried to summary				1200000/-


 Govt. Contractor

YOUNG ASSOCIATES

NAME OF WORKS:

EXTERNAL DEVELOPMENT WORK - ACADEMIC BLOCK

CLIENTS:

SHAH ABDUL LATIF UNIVERSITY KHAIRPUR

JOBS DESCRIPTION:

BILL OF QUANTITIES (SEWERAGE SYSTEM)

S.No	Description	Quantity	Rate (Rs)	Unit	Amount (Rs.)
Item-01	<p style="text-align: center;">A - SCHEDULE ITEM</p> Excavation for pipe line in trenches, and pits in soft soil i/c trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within one chain as directed by Engineer incharge, providing fence guards, lights, flags and temporary crossings for non vehicular traffic where ever required i/c all lead and lift. Item 1 Page-46 (Public Health Engineering)	8000 Cft.	1742.40	%o Cft	10,454
Total					10,454
Add / Deduct <u>500</u> % above / below.					52270
Amount carried to summary					62724

Shah Abdul Latif University
Govt. Contractor

S.No	Description	Quantity	Rate (Rs)	Unit	Amount (Rs.)
B - NON - SCHEDULE ITEM					
Item-01	Supplying and fixing UPVC "Flow Line" local Dadex or approved equivalent pipe for sewerage including all cutting, fitting, bends, tees, specials etc, jointed with solvent / special adhesive, laid in floors walls, making holes in floor, plinth, wall and making them good with C.C 1:2:4 etc complete as per manufacturers instructions and of Engineer Incharge.				
	(i) UPVC Flow Line 6" dia.	445	325/=	P. Rft.	144625/=
	(ii) UPVC Flow Line 8" dia.	205	460/=	P. Rft.	94300/=
Item-02	Construction of RCC septic tank and pumping chamber including cost of all labour and material as per design and drawing top and bottom slab and RCC partition walls for flow of sewerage water from one portion to other portion for setting the sludge and providing double seal C.I. Man hole cover 2' x 2' ms cover with designed frame for float switch of submersible pump fixed into chamber to pumpout the water in available source of discharge at any distance etc complete as per design drawings and installation etc complete size 21'-0" x 7' - 0" having a capacity of 7265 Galloan as whole structure i/c cost of providing & fixing connection from Main DB of Admin Block as per drawing and advice of Engineer Incharge.	7265 Gal	90/=	P. Gal	653850/=
Item-03	Providing and Installing submersible pump including providing electric connection from Main Admin Block (PEDO 10/50-1 + 0.75 KW / 1HP/2 pole with submersible Motor flow 156 GPM 20'-0" head) all as per manufacturers specifications etc. all as per instructions of Engineer Incharge.	1 No.	225000/=	P.No.	225000/=
Item-04	Providing cement concrete 1:2:4 circular manholes for sewerage pipe 6" to 12" dia with RCC 4" thick cover 2'-0" dia with angle iron 2" x 2" x 1/4" Frame embeded in top concrete 9" thick cast-in-situ 6" thick cement concrete 1:4:8 bed at bottom and 4" cement concrete 1:2:4 over bed concrete making channel for sewer pipe 6"/8" 1:4 cement plaster internally and 3/4" dia M.S bar steps embeded in cement at 1'-0" i/c etc complete upto depth of 5'-0" excluding the cost of excavation. (Add / Deduct for every ft depth of increase / decrease of manhole from 5.00 depth Rs.4000)	21 Nos.	25000/=	Each	525000/=
Item-05	Making the connection with the existing O/H Tank of size 3" dia including cutting the RCC Tank & providing & fixing necessary fittings and repairing the damaged tank with bonding agent and cement grout etc complete as directed by Eng. Incharge.	4 Nos.	20000	P.No.	80000
Amont carried to summary					1722775/=


M. S. Chinnai Construction & Co.
Govt. Contractor

YOUNG ASSOCIATES

NAME OF WORKS: EXTERNAL DEVELOPMENT WORK - ADMINISTRATION BLOCK

CLIENTS: SHAH ABDUL LATIF UNIVERSITY KHAIRPUR

JOBS DESCRIPTION: BILL OF QUANTITIES (LANDSCAPING & ROADS)

S.No	Description	Quantity	Rate (Rs)	Unit	Amount (Rs.)
A - SCHEDULE ITEM					
LANDSCAPING					
Item-01	Filling watering and ramming earth in floor with new earth excavated from out side (i/c any lead and lift from specified source) Item-22 Page-5	173578 Cft	1488.30	%0Cft	258,336
BITUMEN CARPET ROAD					
Item-02	Earth work embankment from borrow pits including laying in 6" layers. Clod breaking ramming dressing complete i/c all lead and lift from specified source) Item-2 Page-1	71768 Cft	970.40	%0Cft	69,644
Item-03	Earth work compaction by sheep foot Roller and Power Roller with optimum moisture content.				
	(i) For 95-100% modified AASHO density	31768 Cft	1522.75	%0Cft	48,375
	(ii) For 85% modified AASHD Item-4 (a) & (c) Page-2	40000 Cft	553.73	%0Cft	22,149
Item-04	Laying brick on edging including supplying 9 x 4 1/2 x 3" First Class bricks, excavation for having edging with small size parallel to the road (Rate includes lead from specified source) Item-5 Page-4	1610 Rft	686.90	%Rft	11,059
Item-05	(A) Preparing sub-base course by supplying and spreading stone metal 1 - 1 1/2 - 2 guage of approved quality from approved quarry in required thickness to proper Camber and grade including hand packing filling voids with 20 Cft of pit / Canal sand having plasticity index of not more than 6% of suitable quality. Watering and compacting to achieve 98-100% density as per modified AASHO specification (Rate includes all cost of materials T & P and lead from specified source). Item - 8 (a) Page-3	11500 Cft	1524.30	%Cft	175,295
					584,857



M. A. Khan
Govt: Contractor

S.No	Description	Quantity	Rate (Rs)	Unit	Amount (Rs.)
	Balance B/F				584,857
Item-06	Preparing base course i/c supplying and spreading stone metal of approved quality properly graded to maximum siz of 1 - 1/2" in required thickness to proper camber and grade including supplying and spreading 15 Cft screenings and non plastic quarry fines, filling depressions with stone metal after initial rolling - including watering and compaction the same so as it achieve 100% density as per modified AASHO specifications (Rate includes providing and using templates camber plates screens forms as directed (Rate including all cost of materials T and P and carriage from specified source. Item-10 Page-4	11500	1654.25	%Cft	190,239
Item-07	Providing surface dressing 1st coat on new or existing surface with 30 lbs bitumen and 4'-0" Cft of bajri of required size including cleaning the road surface rolling etc complete (Rate includes all cost of materials T and P and carriage from specified source) (b) Using crushed Bajri Item-13 (b) Page6	16015 Sft	348.77	%Sft	55,856
Item-08	Providing 1-1/2" thick (consolidated) premixed carpet in proper camber and grade including supplying 15 Cft: bajri. 5 Cft hill sand (of approved quality and grade) bitumen of 80/100 penetration including mixing in mechanical mixer in required Proportion including heating materials and cleaning the road surface (Hill sand 3 Cft for mixing 2.0 Cft for dusting) (Rate includes all cost of materials T&P and carriage) from specified source. (b) Using Crushed Bajri. Item 16 Page-7	16015 Sft	1204.09	% Sft	192,835
					1,023,787





 Govt: Contractor

S.No	Description	Quantity	Rate (Rs)	Unit	Amount (Rs.)
	<u>Balance B/F</u>				1,023,787
Item-09	<u>WALK WAY</u> Filling watering and ramming earth under floor with new earth excavated from out side i/c all lead and lift. Item-22 Page-5	4500 Cft	1488.3	%0Cft	6,697
Item-10	Cement concrete plain including placing compacting, finishing and curing complete (including screening and washing of stone aggregate with shuttering) in ratio 1:4:8. Item-5 Page-18	1710 Cft	4319	%Cft	7,385
Item-11	Pucca brick work in ground floor cement mortar 1:4. (i). Ground Floor Item-5 (i) (c) Page-25	1490 Cft	4531.45	%Cft	6,752
Total of 'A'					1,044,621
Add / Deduct <u>40</u> % above below					Rs. 417848/-
Amount carried to summary					Rs. 1462469/-


 Govt. Contractor

S.No	Description	Quantity	Rate (Rs)	Unit	Amount (Rs.)
B - NON-SCHEDULE ITEMS					
Item-01	Supply and fix Interlocking tough pavers 2" thick (Envicrete or Equivalent approved) on 2" thick layer of crushed stone dust (Khaka) of approved shade and design as directed by Engineer.	3410 Sft	90/=	P.Sft	306900/=
Item-02	Supply and fixing kerb stone of size (18" x 12" x 6") C.C 1:6 of approved brand.	466 Rft	150/=	P.Rft	69900/=
Amount carried to summary					376800/=

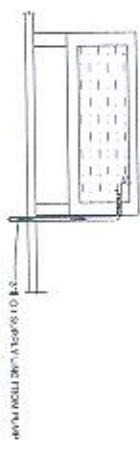

 Govt. Contractor
 Mr. M. P. ...

SECTION – XII
TENDER DRAWINGS

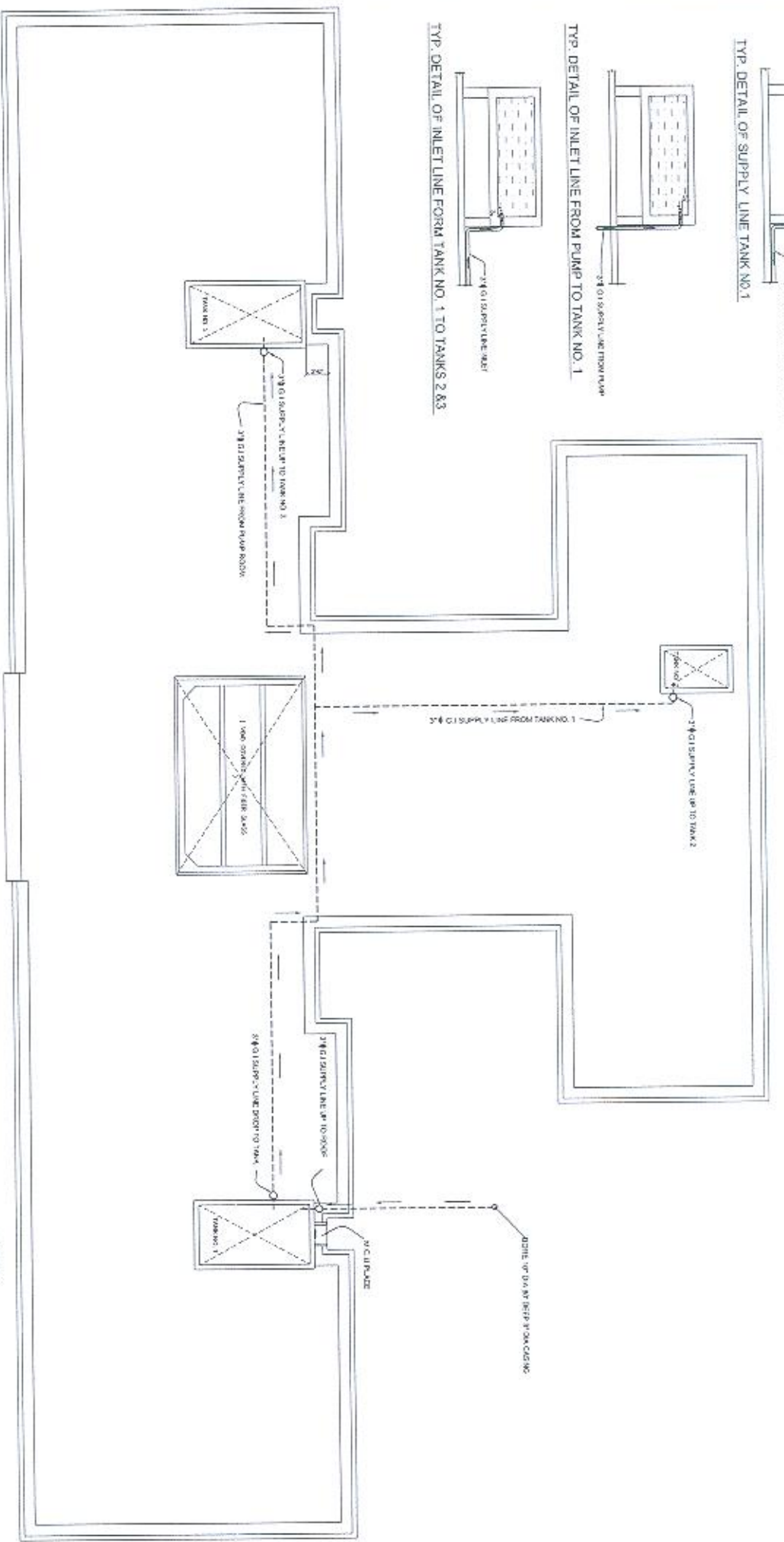
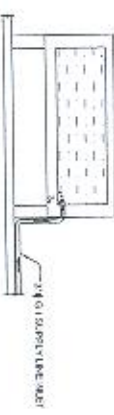
TYP. DETAIL OF SUPPLY LINE TANK NO.1



TYP. DETAIL OF INLET LINE FROM PUMP TO TANK NO. 1



TYP. DETAIL OF INLET LINE FROM TANK NO. 1 TO TANKS 2 & 3

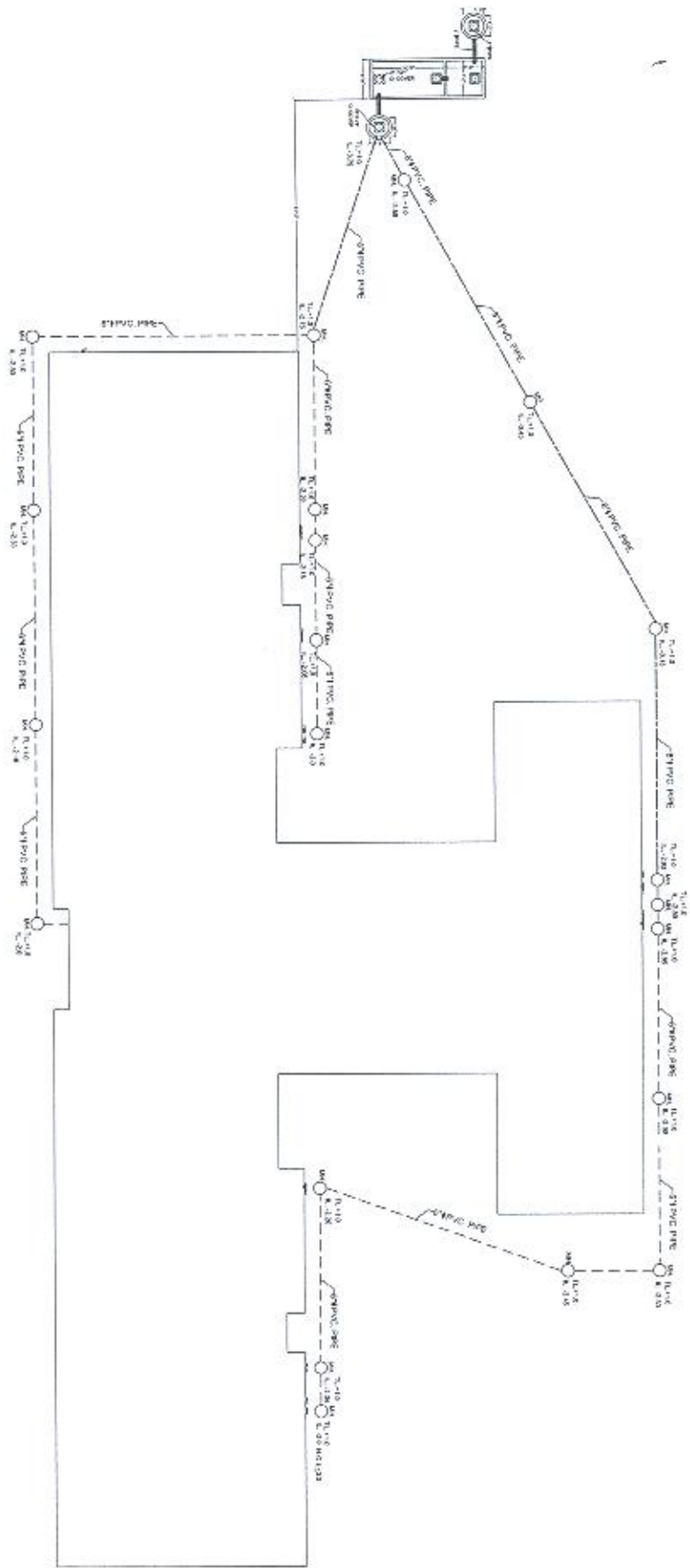


ROOF PLAN

NOTE:

1) DO NOT BE PANIC THAT THE CONNECTING INLET LINE OF TANK 2 & 3 IS AT SAME LEVEL, AS YOU CAN SEE IN TANK 1

3rd Revision:	DATE:
2nd Revision:	DATE:
1st Revision:	DATE:
Drawn by:	DATE:
Checked by:	DATE:
CLIENT:	DESCRIPTION:
YOUNG ASSOCIATES	WATER SUPPLY FIELD SYSTEM
CONSULTING ENGINEERS & ARCHITECTS	ROOF PLAN
200, 101, 2nd Floor, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200	SCALE: 1/4" = 1'-0"

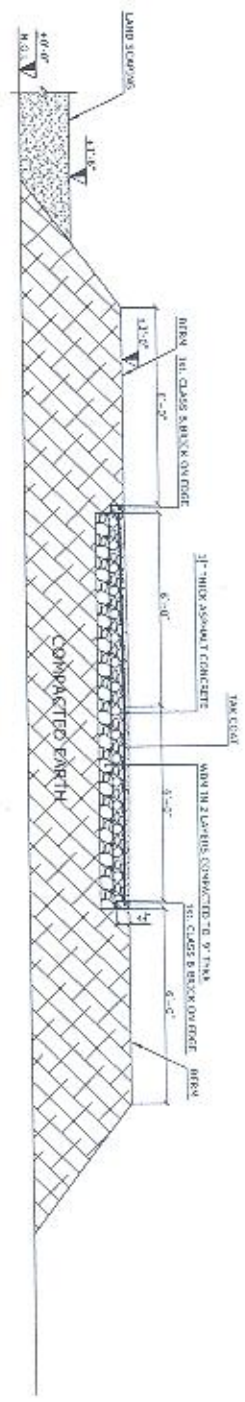


EXTERNAL DISPOSAL SEWERAGE SYSTEM PLAN

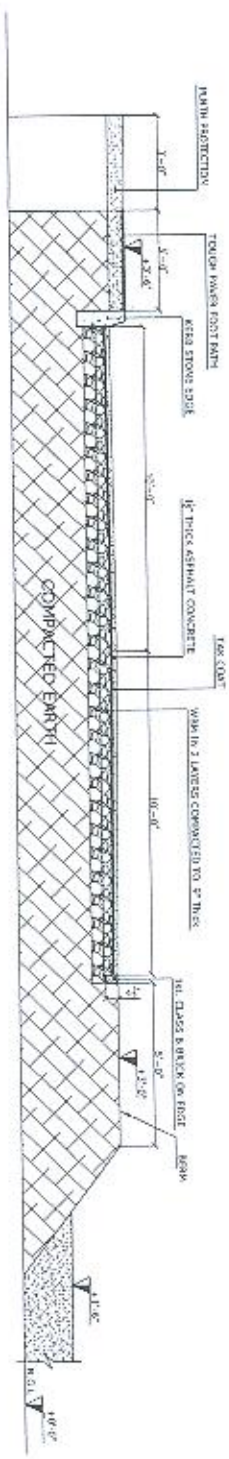
NOTES:

- 1) ALL PIPES TO BE TESTED BEFORE CONSTRUCTION.
- 2) ALL MANHOLES SHALL BE OF SIZE 24\"/>

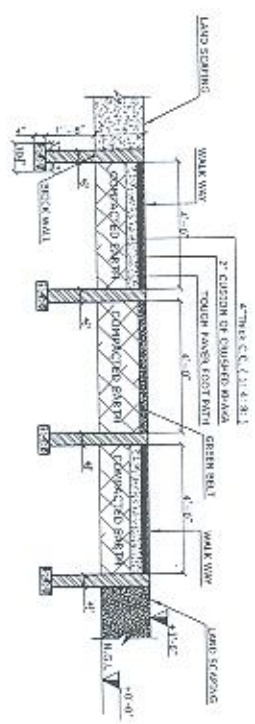
2nd Revision :	DATE :
3rd Revision :	DATE :
Drawn By :	DATE :
Checked By :	DATE :
Client :	PROJECT :
Site No. :	DATE :
YOUNG ASSOCIATES CONSULTING ENGINEERS & ARCHITECTS 10th Floor, 100, Market Street, Singapore 048933 Tel: (65) 43434441, 43434442, 43434443 Fax: (65) 43434444, 43434445, 43434446 E-mail: y.a.associates@younga.com	
Scale :	DATE :



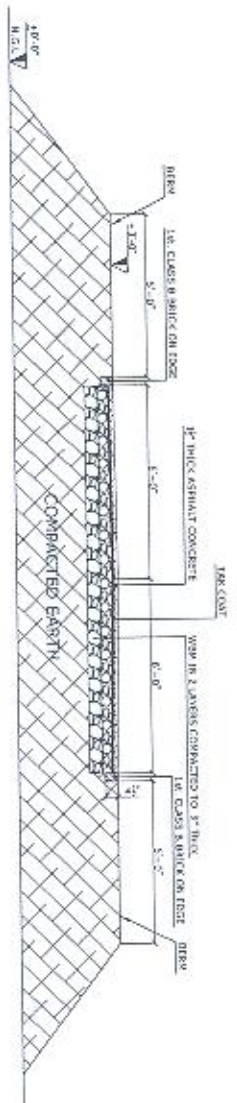
SECTION A-A (12'-0" WIDE ROAD)



SECTION B-B (20'-0" WIDE ROAD)



SECTION C-C (4'-0" WALK WAY)



SECTION D-D (12'-0" WIDE ROAD)

NO. 1	DATE:	10/1/03
NO. 2	DATE:	2/28/03
NO. 3	DATE:	5/14/03
NO. 4	DATE:	8/11/03
NO. 5	DATE:	11/17/03
NO. 6	DATE:	2/11/04
NO. 7	DATE:	5/11/04
NO. 8	DATE:	8/11/04
NO. 9	DATE:	11/11/04
NO. 10	DATE:	2/11/05
NO. 11	DATE:	5/11/05
NO. 12	DATE:	8/11/05
NO. 13	DATE:	11/11/05
NO. 14	DATE:	2/11/06
NO. 15	DATE:	5/11/06
NO. 16	DATE:	8/11/06
NO. 17	DATE:	11/11/06
NO. 18	DATE:	2/11/07
NO. 19	DATE:	5/11/07
NO. 20	DATE:	8/11/07
NO. 21	DATE:	11/11/07
NO. 22	DATE:	2/11/08
NO. 23	DATE:	5/11/08
NO. 24	DATE:	8/11/08
NO. 25	DATE:	11/11/08
NO. 26	DATE:	2/11/09
NO. 27	DATE:	5/11/09
NO. 28	DATE:	8/11/09
NO. 29	DATE:	11/11/09
NO. 30	DATE:	2/11/10
NO. 31	DATE:	5/11/10
NO. 32	DATE:	8/11/10
NO. 33	DATE:	11/11/10
NO. 34	DATE:	2/11/11
NO. 35	DATE:	5/11/11
NO. 36	DATE:	8/11/11
NO. 37	DATE:	11/11/11
NO. 38	DATE:	2/11/12
NO. 39	DATE:	5/11/12
NO. 40	DATE:	8/11/12
NO. 41	DATE:	11/11/12
NO. 42	DATE:	2/11/13
NO. 43	DATE:	5/11/13
NO. 44	DATE:	8/11/13
NO. 45	DATE:	11/11/13
NO. 46	DATE:	2/11/14
NO. 47	DATE:	5/11/14
NO. 48	DATE:	8/11/14
NO. 49	DATE:	11/11/14
NO. 50	DATE:	2/11/15
NO. 51	DATE:	5/11/15
NO. 52	DATE:	8/11/15
NO. 53	DATE:	11/11/15
NO. 54	DATE:	2/11/16
NO. 55	DATE:	5/11/16
NO. 56	DATE:	8/11/16
NO. 57	DATE:	11/11/16
NO. 58	DATE:	2/11/17
NO. 59	DATE:	5/11/17
NO. 60	DATE:	8/11/17
NO. 61	DATE:	11/11/17
NO. 62	DATE:	2/11/18
NO. 63	DATE:	5/11/18
NO. 64	DATE:	8/11/18
NO. 65	DATE:	11/11/18
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NO. 67	DATE:	5/11/19
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NO. 76	DATE:	8/11/21
NO. 77	DATE:	11/11/21
NO. 78	DATE:	2/11/22
NO. 79	DATE:	5/11/22
NO. 80	DATE:	8/11/22
NO. 81	DATE:	11/11/22
NO. 82	DATE:	2/11/23
NO. 83	DATE:	5/11/23
NO. 84	DATE:	8/11/23
NO. 85	DATE:	11/11/23
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NO. 92	DATE:	8/11/25
NO. 93	DATE:	11/11/25
NO. 94	DATE:	2/11/26
NO. 95	DATE:	5/11/26
NO. 96	DATE:	8/11/26
NO. 97	DATE:	11/11/26
NO. 98	DATE:	2/11/27
NO. 99	DATE:	5/11/27
NO. 100	DATE:	8/11/27



YOUNG ASSOCIATES
INCORPORATED

1500 WEST 10TH AVENUE, SUITE 100
DENVER, COLORADO 80202
TEL: 303.733.8800 FAX: 303.733.8801
WWW.YOUNGASSOCIATES.COM

PROJECT: SHAW-ARON, METRO UNIVERSITY CAMPUS
CLIENT: UNIVERSITY OF COLORADO
ADMINISTRATIVE: LEFC
SCALE: AS SHOWN
DATE: 10/1/03
DRAWN BY: [Name]
CHECKED BY: [Name]
DATE: 10/1/03



OFFICE OF THE PROJECT DIRECTOR (PMU) "STRENGTHENING OF INFRASTRUCTURE OF SHAH ABDUL LATIF UNIVERSITY KHAIRPUR.

ATTENDANCE SHEET.

NAME OF PROJECT/WORK: "STRENGTHENING OF INFRASTRUCTURE OF SHAH ABDUL LATIF UNIVERSITY KHAIRPUR EXTERNAL DRAINAGE, EXTERNAL WATER SUPPLY, APPROACH ROAD, PUMP ROOM, WALK PATH AND LAND SCALPING-OF ADMINISTRATION BLOCK."

Tender Notice No.PD(PMU)/SALU/KHP/985 Dated: 15-11-2010.

Tender opening Date: 22-12-2010.

Opening time 2:00 pm.

S.No.	Name of Firm	Name of Representative	Signature
1.	M/s Nagvi Builders Khairpur.	Syed Moazzam Hashim	
2.	M/s Rock well Enterprises.	Sayyidullah	
3.	M/s New Speed Way.	Abdul Aleem	
4.	M/s Khairpur Builders.	S. Zafar Shah	
5.	M/s Altaf Hussain Shaikh & Co.	Altaf Hussain Shaikh	

OPENING COMMITTEE.

1. Name: Prof: Shah Muhammad Luhrani
Designation. Dean Faculty of Commerce & Business Administration.

Signature

2. Name: Noorullah Malik,
Designation. Director (P&D).

Signature

3. Name:
Designation. Director Finance.

Signature

4. Name: Engr: Imdad Ali Sial,
Designation. Project Director (Works).

Signature

5. Name: Young Associate
Designation. Consultance.

Signature

6. Name: Engr: G. Mustafa Shaikh,
Designation. Executive Engineer (E&M).

Signature

7. Name: Engr: Izhar Ahmed Shaikh,
Designation. Project Director (PMU).

Signature

8. Name: Engr: Ali Gohar Larik,
Designation. Project Manager (MPU).

Signature

SHAH ABDUL LATIF UNIVERSITY KHAIRPUR.

**TENDER FOR PROVIDING EXTERNAL DRAINAGE, EXTERNAL WATER SUPPLY,
APPROACH ROADS, PUMP ROOM, WALKWAYS AND LANDSCAPING.**

SCRUTINY REPORT OF TENDERS

S.NO.	NAME OF CONTRACTOR	TENDER AMOUNT	AMOUNT AFTER SCRUTINY	RANKING IN ASCENDING ORDER
1.	M/S ALTAF HUSSAIN & CO.	Rs.4,900,877/-	Rs.4,900,877/-	1 ST LOWEST
2.	M/S NEW SPEEDWAY	Rs.7,322,925/-	Rs.6,844,163/-	2 ND LOWEST
3.	M/S NAQVI BUILDERS	Rs.7,508,225/-	Rs.7,508,225/-	3 RD LOWEST
4.	M/S KHAIRPUR BUILDERS	Rs.7,535,904/-	Rs.7,535,904/-	4 TH LOWEST
5.	M/S ROCKWELL ENTERPRISES	Rs.7,584,817/-	Rs.7,584,817/-	5 TH LOWEST


CONSULTANTS





**OFFICE OF THE PROJECT DIRECTOR (PMU) "STRENGTHENING OF
INFRASTRUCTURE OF SHAH ABDUL LATIF UNIVERSITY KHAIRPUR.**

Ph:0243-9280430

No.PD/PMU/SALU/KHP/1096

Dated: 31-01-2011

To,

1. M/S. Altaf Hussain & Co.
Qasimabad Hyderabad.
2. M/S. New Speedway,
Karachi.
3. M/S. Naqvi Builders,
Khairpur.
4. M/S. Khairpur Builders,
Khairpur.
5. M/S. Rockwell Enterprises,
Khairpur.

SUBJECT:

**OPENING OF BIDS ON 22-12-2010 FOR THE WORK OF EXTERNAL
DRAINAGE/EXTERNAL WATER SUPPLY, APPROACH ROADS,
PUMP ROOM, WALKWAY AND LANDSCAPING IN
ADMINISTRATION BLOCK UNDER THE PROJECT TITLED
"STRENGTHENING OF INFRASTRUCTURE SHAH ABDUL LATIF
UNIVERSITY, KHAIRPUR.**

Reference

This office NIT No.PD/PMU/SALU/KHP/985 dated:15-11-2010 & your tenders opened by the committee on 22-12-2010.

I take an opportunity to inform you that the overall bid worth Rs:4,900,877/- offered by M/S. Altaf Hussain & Co. Qasimabad. Hyderabad has been declared lowest (as per comparative statement attached).

Hence, a regret to inform that the other participants at S.No.2 to 5 have not succeeded in the competitions.

Note: The lowest bidder i.e M/S. Altaf Hussain & Co. is advised to send his acceptance with regard issue of work order after approval of competent authority.

Your's Sincerely

Abul Latif
ENGR: IZHAR AHMED SHAIKH
PROJECT DIRECTOR (PMU)

31/1/2011

1. Copy alongwith copy of Comparative Statement forwarded with compliments to the Director Sindh Public Procurement Regulatory Authority Block-8 Sindh Secretariat No.4-A Court Road. Karachi for information as required under rule 45 of SPPRA rules 2010.
2. Secretary to Vice Chancellor Shah Abdul Latif University Khairpur for information.
3. Director (P&D), Shah Abdul Latif University, Khairpur for information.

SPPRA (PMU)
No. 3650
Dated: 31/1/2011
Sindh
Regulatory 2/2011

[Handwritten signature]
m(cas)