



**Shaheed Benazir Bhutto University, Shaheed Benazirabad**  
Knowledge - Commitment - Leadership

No. SBBU/PD/ 708

Dated: 22/06/ 2018

**Project Director**

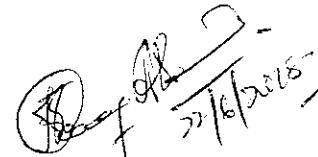
**ASSISTANT DIRECTOR ASSESSMENT (VIGILANCE)**  
Sindh Public Procurement regulatory Authority  
**Karachi**

**SUBJECT: - PUBLICATION OF TENDER NOTICE**

Enclosed find herewith copy of Tender Notice with supporting documents for uploading on (SPPRA) Sindh Public Procurement Regulatory Authority web site, necessary arrangement may kindly be made in this regard to get it published please. This tender Notice is also send to print media for publication in three national leading news papers

An early action will be appreciated.

1. Construction of flats (Grade 02-10) 02 Blocks
2. Construction of flats (Grade 02-10) 01 Blocks
3. Construction of Over Head water Tank 50 thousand Gallons
4. Supply & Installation of 2Ton floor stand A/C
5. Supply & Installation of external over head and underground Electrification system.



**Project Director**  
Shaheed Benazir Bhutto University,  
Shaheed Benazirabad

**Copy for Favor of Information**

The Secretary to the Vice Chancellor, SBBU, SBA

**Copy for Compliance**

Assistant Engineer SBBU, SBA

SPPRA INWARD DIARY  
NO : 9946  
DATED 25-06-2018



SHAHEED BENAZIR BHUTTO UNIVERSITY  
SHAHEED BENAZIRABAD

No./SBBU/PD/07/2018

Nawabshah, Dated: 22, June, 2018

## TENDER NOTICE

Shaheed Benazir Bhutto University, Shaheed Benazirabad invites the tenders/bids for the following work for Shaheed Benazir Bhutto University Shaheed Benazirabad and for Sanghar Campus as detailed below.

S. No	Name of Work	Earnest Money (Rs)	Tender Fees (Rs)	Completion Period
01	Construction of Flats (Grade 02-10) 02 Blocks	2%	3000	08-Months
02	Construction of Flats (Grade 02-10) 01 Block		1000	06-Months
03	Construction of Over head water tank 50 thousand gallons		2000	10 months
04	Supply and installation of Floor Mountain Air Conditioner (Mitsubishi Dawlance, Orient or Equivalent) with 4-relay 15000 watts stabilizer 100% copper	5%	1000	One month
05	Supply and installation of external over headed and underground electrification system	2%	3000	06 month

**Terms and Conditions/Procedure of tenders are detailed below:**

1. The tender will be issued from 26.06.2018 to 12.07.2018 during the office hours against a written request attaching therewith all required documents & company profile. The tender will be received back with proper sealed envelope up to 11:00 am on 12.07.2018 and will be opened at 12:00 noon in office of the undersigned on the same day in the presence of contractors or their authorized representatives who may intend to be present.
2. The bidder should submit the affidavit on judicial stamp paper stating that their company has not been black listed nor any involvement in litigation in any court of law.
3. The tender document can be received by office of the undersigned from 26.06.2018 to 12.07.2018 on payment of the cost of tender fee (nonrefundable) mentioned against the supply, in shape of Demand Draft/Pay Order in the name of Director Finance, Shaheed Benazir Bhutto University, Shaheed Benazirabad.
4. Telephonic/Fax request will not be entertained for the issuance of tender document.
5. Earnest Money equivalent to 2% and (5% only for serial no 04) of the tender value shall be furnished with the tenders in shape of call deposit/Pay Order from the scheduled bank in favor of Director Finance, Shaheed Benazir Bhutto University, Shaheed Benazirabad.
6. The competent authority may reject any or all tenders any time prior to the acceptance of tender/bid subject to the relevant provision of SPPRA Rules 2010
7. Conditional Tenders will not be entertained
8. Copy of valid NTN and Sales Tax Certificate & PEC registration Certificate must be attached.
9. At least last three year turnover and relevant experience certificate must be attached.
10. Electrical license (Mirpurkhas, Sukkur and Hyderabad regions only for serial no 05)
11. Apply only Categories (ME-06),(EE04 & EE05), C-04 & Above.

Project Director  
Shaheed Benazir Bhutto University  
Shaheed Benazirabad  
Civil Lines Nawabshah  
Tel # 0244-9370523  
[www.sbbusba.edu.pk](http://www.sbbusba.edu.pk)



**Shaheed Benazir Bhutto University, Shaheed Benazirabad**  
Knowledge - Commitment - Leadership

No. SBBU/Registrar /- 1462  
Dated: 17/11/2017

**Notification**

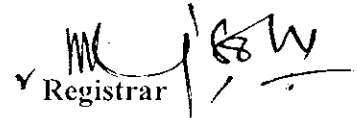
In continuation of this office notification No. SBBU/Reg/Admn/945 dated 08.08.2017, the Redressal Committee is reconstituted as under to address the grievances of Contractors as per TOR and give recommendations or otherwise for approval of the Competent Authority.

- |   |          |
|---|----------|
| 01. Prof. Dr. Liaquat Ali Zardari<br>Associate Professor, SBBU,SBA.                       | Convener |
| 02. Mr. Hassan Jan Chingezi<br>Assistant Accounts Officer<br>Distt: Accounts Office, SBA. | Member   |
| 03. Mr. Mairaj Nabi Bhatti<br>Assistant Professor ,SBBU,SBA.                              | Member   |

**The Term of Reference.**

- Maintenance of the University.

These issues with approval of the Competent Authority.

  
Registrar

**Copy to:**

05. The Secretary to Vice Chancellor, SBBU, SBA.
06. The Director Finance, SBBU,SBA.
07. The Resident Auditor, SBBU,SBA.
08. Concerned



**Notification**

In continuation of this office notification No. SBBU/Registrar/943 dated 08.08.2017 and in accordance with SPP Rules-2010, the procurement committee is reconstituted to examine and evaluate the bids received from the contractors for the establishment of Shaheed Benazir Bhutto University, Shaheed Benazirabad.

- |  |          |
|--|----------|
| 01. Mr. Faheem Ahmed Soomro<br>Project Director                                      | Convener |
| 02. Mr. Tariq Aziz Jamali<br>Assistant Director P&D                                  | Member   |
| 03. Prof. Dr. Bashir Ahmed Memon<br>Dean, Faculty of Engineering<br>QUEST, Nawabshah | Member   |

  
Registrar

Copy to:

01. The Secretary to Vice Chancellor, SBBU, SBA.
02. The Director Finance, SBBU, SBA.
03. The Resident Auditor, SBBU, SBA.
04. Concerned

## ANNUAL PROCUREMENT PLAN

(WORKS, GOODS & SERVICES)

FINANCIAL YEAR 2017-18

Sr. No	Description of Procurement	Quantity (Where Applicable)	Estimated cost (where applicable)	Estimated total cost	Funds allocated	Source of funds (ADP/Non ADP)	Proposed procurement method	Timing of Procurements				Remarks
								1 <sup>st</sup> Qtr	2 <sup>nd</sup> Qtr	3 <sup>rd</sup> Qtr	4 <sup>th</sup> Qtr	
01	Construction of RCC Monument			0.249 (M)				July 2017				
02	Construction of Stage in multipurpose hall			0.240 (M)				July 2017				
03	Construction of 04 No's Septic tank			1.243 (M)	150 (Millions)	Non ADP	Single stage-single envelop	July 2017				
04	Construction of Tube well room			0.405 (M)				July 2017				
05	Construction of RCC Pond & Channel			0.342 (M)				July 2017				
06	Construction of Road with walking shade			67.840 (M)				July 2017				

07	Construction of Professor house			7.785 (M)			July 2017	
08	Construction of Flats			8.984 (M)			July 2017	
09	Construction of associate Professor house			18.584 (M)			July 2017	
10	Construction of watch towers	02 No's		1.825 (M)			July 2017	
11	Construction of main Gates	02 No's		15.955 (M)			July 2017	
12	Construction of Chemistry lab		3258	1.332 (M)			July 2017	
13	Construction of Vice Chancellor Bungalow			0.320 (M)			July 2017	
14	Supply & Installation of DC Inverter Ac's			0.947 (M)	200 (Millions)	Non ADP	July 2017	Single stage-single envelop
15	Supply & Installation of Garden poles with lights			0.536 (m)			August 2017	
16	Supplying & Installation of filter plant for Academic-i&ii			2.000 (M)			August 2017	
17	Supplying of furniture work stations with			1.000 (M)			August 2017	

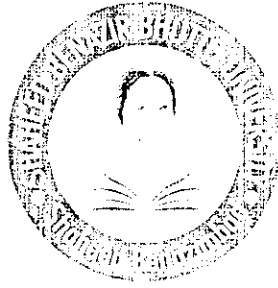


28	Cricket Ground Procurement of lab equipments	7.946 (M)			January 2018	
29	Procurement of furniture	5.173 (Million)			February 2018	
✓ 30	Construction of Over head tank	9.950 (M)			April 2018	
31	Construction of cafeteria & Dispensary	12.583 (M)			May 2018	
32	Cons: of student service center	10.50 (M)			May 2018	
33	Procurement of furniture	17.989 (M)			May 2018	
34	Extension of Masjid	24.267 (M)			May 2018	
35	Extension of Ancient type room and its external development	1.943 (M)			May 2018	
36	External Development of Dispensary	4.769 (M)			May 2018	
38	Extension of Tennis court & External Development	5.457 (M)			May 2018	
39	Extension of Basket ball court &	0.960 (M)			May 2018	



40	External Development Renovation work of rooms at Noushero Campus	0.336 (M)																June 2018	
41	Supply of water filter plant at Noushero Campus	0.998 (M)																June 2018	
42	Supply & Installation of 2 ton floor mountain Air condition for Sanghar Campus	4.800 (M)																June 2018	
43	Construction of flats G2-10	39.760 (M)																June 2018	

Approved and signed by the Head of Procuring Agency



**SHAHEED BENAZIR BHUTTO UNIVERSITY  
SHAHEED BENAZIRABAD**

**TENDER DOCUMENTS**

**FOR**

Supplying & Installation of External & Internal Over  
headed or Underground Electrification system at Shaheed  
Benazir Bhutto University Shaheed Benazirabad.

**WILL BE**

**OPENED ON**

**12/07/2018**

## INSTRUCTIONS TO BIDDERS

1. The Contract resulting from this invitation to tender shall be governed by the SPP Rule 2010.
2. In the event of Tender being submitted by the firm, it must be signed by the contractor /Manufacturer / Dealer / Supplier thereof, in the event of the absence of any partner it must be signed on his behalf by a person holding a power of attorney authorizing to do so.
3. The amount of earnest money deposited shall be Rs. 2% of the maximum quoted value of all items, earnest money should be paid by the contractors through Pay Order / Demand Draft of the scheduled banks in favor of Director Finance, Shaheed Benazir Bhutto University Shaheed Benazir abad **(No other payment will be accepted)**.
4. The procuring Agency reserves the right to call any or all the bidder (s) to give presentation / demonstration for their items/works.
5. The proposal of bid shall be opened publicly at the time, date and venue announced and communicated to the bidders in advance.
6. The bidder has to quote the total value of bids in the financial proposal including all taxes.
7. The income tax, sale tax and all Government taxes shall be deducted at a source on total value of bid.
8. The bidder has to provide the GST registration certificate, NTN,PEC Certificate (where applicable) and Sindh Revenue Board registration certificate. The Department while making payments to any supplier / contractor shall deduct according to rule.
9. The Procuring Agency shall have right to reject any of the tenders as per provisions of SPPRules 2010.
10. The bidders will supply a sample of the material (if any) for approval (if applicable).

**BIDDING DATA**

- (a). Name of Procuring Agency      Shaheed Benazir Bhutto University, SBA
- (b). Brief Description of Works      Supply & Installation of external & internal  
electrification system at  
SBBU, Shaheed Benazirabad
- (c). Procuring Agency's address      SBBU, Civil Lines SBA
- (d). Estimated Cost:-      Rs----- Million
- (e). Earnest Money: -      2% of Contract Work
- (f). Period of Bid Validity (days):-      90 DAYS
- (g) Security Deposit :-      ( including bid security):- 5%
- (h). Percentage, If any ,to be deducted from bills: -All Govt:Taxes (as per rule)
- (j). Venue , Time ,and Date of Bid Opening: - SBBU, SBA – 12:00 Noon @ 12-07-2018
- (k). Time for Completion from written order of commence:-      06 months
- (m). Deposit Receipt No: Date: Amount

----- (in words and figures)

## Conditions of Contract

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

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

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

### **Clause – 3: Termination of the Contract.**

- (A) Procuring Agency/Project Director may terminate the contract if either of the following conditions exists:-
- (i) Contractor causes a breach of any clause of the Contract;
  - (ii) The progress of any particular portion of the work is unsatisfactory and notice of 10 days has expired;
  - (iii) In the case of abandonment of the work owing to the serious illness or death of the contractor or any other cause.
  - (iv) Contractor can also request for termination of contract if a payment certified by the Engineer is not paid to the contractor within 45 days of the date of the submission of the bill;
- (B) The Project Director/Executive Engineer/Procuring Agency has power to adopt any of the following courses as may deem fit:-
- (i) To forfeit the security deposit available except conditions mentioned at a (iii) and (iv) above;
  - (ii) To finalize the work by measuring the work done by the contractor.

(C) In the event of any of the above courses being adopted by the Project Director/Executive Engineer/Procuring Agency, the contractor shall have:-

- (i) No claim to compensation for any loss sustained by him by reason of his having purchased or procured any materials, or entered into any engagements, or made any advances on account of, or with a view to the execution of the work or the performance of the contract.
- (ii) However, the contractor can claim for the work done at site duly certified by the Executive Engineer in writing regarding the performance of such work and has not been paid.  
Procuring Agency/Engineer may invite fresh bids for remaining work.

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

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

When time has been extended as aforesaid, it shall continue to be the essence of the contract and all clauses of the contract shall continue to be operative during the extended period.

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

**Clause - 7:**  
**Payments.**

(A) **Interim/Running Bill.** Deleted

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

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

**Clause - 9: Issuance of Variation and Repeat Orders.**

(A) Procuring Agency may issue a Variation Order for procurement of works, physical services from the original contractor to cover any increase or decrease in quantities, including the introduction of new work items that are either due to change of plans, design or alignment to suit actual field conditions, within the general scope and physical boundaries of the contract.

(B) Contractor shall not perform a variation until the Procuring Agency has authorized the variation in writing subject to the limit not exceeding the contract cost by of 15% on the same conditions in all respects on which he agreed to do them in the work, and at the same rates, as are specified in the tender for the main work. The contractor has no right to claim for compensation by reason of alterations or curtailment of the work.

(C) In case the nature of the work in the variation does not correspond with items in the Bill of Quantities, the quotation by the contractor is to be in the form of new rates for the relevant items of work, and if the Engineer-in-charge is satisfied that the rate quoted is within the rate worked out by him on detailed rate analysis, and then only he shall allow him that rate after approval from higher authority.

(D) The time for the completion of the work shall be extended in the proportion that the additional work bear to the original contact work.

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

**Clause-10: Quality Control.**

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



**Clause – 11: Inspection**

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

**Clause – 12: Examination of work before covering up**

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

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

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

**Clause – 15: Disputes.** All disputes arising in connection with the present contract, and which cannot be amicably settled between the parties, the decision of the Superintending Engineer of the circle/officer/one grade higher to awarding authority shall be final, conclusive and binding on all parties to the contract upon all questions relating to the meaning of the specifications, designs drawings, and instructions, hereinbefore mentioned and as to the quality of workmanship, or materials used on the work or as to any other questions, claim, right, matter, or thing whatsoever in any way arising out of, or relating to the contract design, drawings, specifications, estimates, instructions, orders or these conditions or otherwise concerning the works, or the execution, of failure to execute the same, whether arising, during the progress of the work, or after the completion or abandonment thereof.

**Clause –16: Site Clearance.** Deleted.

**Clause –17: Financial Assistance /Advance Payment.**

(A) **Mobilization advance:** Deleted

**Clause –18: Refund of Security Deposit/Retention Money.** On completion of the whole of the works (a work should be considered as complete for the purpose of refund of security deposit to a contractor from the last date on which its final measurements are checked by a competent authority, if such check is necessary otherwise from the last date of recording the final measurements), the defects notice period has also passed and the Engineer has certified that all defects notified to the contractor before the end of this period have been corrected, the security deposit lodged by a contractor (in cash or recovered in installments from his bills) shall be refunded to him after the expiry of three months from the date on which the work is completed.

Contractor

Executive Engineer/Procuring  
Agency

**Engineers estimate cost**

**EXTERNAL OVERHEAD & UNDERGROUND ELECTRIFICATION SYSTEM**

(As per Schedule of Rates 2012 Government of Sindh)

A	Description	Qty.	Unit	Rate	Amount (Rs.)
SI-1	Excavation in Foundation of building bridges & other structure including dagbelling , dressing refilling around structure with excecated earth watering & ramming lead upto 5ft (b) in Ordinary soil.chapter no #01 , page no #4 , item 18	85306	%cft	3176.25	270953.2
SI-2	Providing Laying Upvc Pipesof class D Fixing intrench i/c cutting fitting and jointing with solvent cement i/c testing with water to a head of 122m or 400ft ( Chapter no 02, page # 24, item no 5(d) 3 (h) 150 mm (6" dia)	25400	rft	486	12344430.97
SI-3	Construction manholes or inspection chambers for the requaired diameter of circular sewer and 3'-6" (1067) depth with wall of B.B in cement sand mortar 1:3 1/2" thick inside of walls and 1" (25mm) thick over benching and channel i/c fixing C.I manholes covers with frame of clear opening 1-1/2'*1-1/2' (457*457mm) of 1.75 cwt. (88.9kg) embaded in plain 1:2:4 and fixing 1" (25mm) dia M.S Steps 6" (150mm) wide projecting 4" (120mm) from the face of walls at 12" (305mm) C/C duly painted etc. Complete as per stanard Specification and drawing (a) 4" to 12" dia 2'*2'*3'-6" ( Chapter no 02, page # 46, item no P(a)	50	job	14,748	737400.00
SI-4	Cement Concrete plain i/c placing compacting finishing & curing complete (i/c screening and washing at stone aggregate without shuttering) 1:4:8 Chapter no 4,page no 15, item no 5(i)	1540	%cft	11,289	173850.60
SI-5	Cement Concrete plain i/c placing compacting finishing & curing complete (i/c screening and washing at stone aggregate without shuttering) 1:4:8 Chapter no 4,page no 15, item no 5(F)	5040	%cft	14,429	727234.40
SI-6	Erection and removal of centering for R.C.C or plain cement concrete works of PARTIAL WOOD.Vertical. (Chapter no 04,page # 17 ,item no 19(b.2)	2510	%sft	3,127	78487.70

SI-7	a) R.c.c work in slabs ,beams,columns rafts lintels and other structure members laid in situ or precast laid in position completed in all respects b) 1:2:4 ( Chapter no 04,page # 15,Item no 6(a) )	1495	per cft	337	503,815
SI-8	pacca brick work in foundation and plinth floor in cement sand mortar 1:5 ( chapter no 05,page no # 19,Item no 4 (1) d	35570	%cft	12,176	4331003.00
SI-9	supplying and filling sand under floor and plugging in walls (Chepter no 05,page no 25,item no 29)	25740	% cft	1,141	293693.40
SI-10	Cement plaster 1:5 upto 12' height a) 3/8"	55630	%sft	2122.72	1080870
SI-11	priming coat of chalk distempar (chepter no 09,page no 53,item no 23)	500	%sft	442.75	2,213.75
SI-12	Distemping two coats (Chepter no 09,page no 53,item no 24(b))	500	%sft	1043.90	5,219.50
SI-13	preparing the surface and painting of doors and windows any type including edges priming coat (chepter no 11,page no 69,item no 5 c (1) )	500	%sft	862.95	4,314.75
SI-14	Each subsequent coat Oil paint (2 coats) ( chpter no 11,page no 69 item no 5 c (2))	500	%sft	1253.46	6,267.30
SI-15	providing anti termite treatment by spraying /sprinkling /spreading neptachler 0.5% emulsion as an aver all pre-construction under the slab and along attache preches or entrances etc as per directions of Engineer incharge ( chepter no 18 page no 108,item no 92)	2160	per sft	9.74	21,038.40
SI-16	First class deodar wood wrought joinery in door and window etc, fixed in position (excluding chowkatts) including hold fasts hingings, iron tower bolts,chocks cleats handles and cords with hooks, etc (b) 3/4" thicks (chapter no 10,item no 7(b) page no 57	120	P.Sft	1273.76	152,851.12
SI-17	providing and fixing GI frame chowkats of size 7"x2" or 4-1/2"x3" for door using 20 guage GI sheet i/c welding hinges and fixing at site with necessary hold fasts, filling with cement sand slurry of ratio 1:6 and repairing the jambs. The cost also including all carriages, tools and plants used in making and fixing ( chepter no 17,Page no 92,item no 29)	50	228.9	Rft	11445
SI-18	Providing & laying (MAIN or SUBMAIN) PVC insulated &PVC sheated with 4-core Armoured copper conductor 600/1000 volts Size 25mm (Item rates Item P(114) Page 13,	3960	2435	PMtr	9642600
SI-19	Providing & laying (MAIN or SUBMAIN) PVC insulated &PVC sheated with 4-core Armoured copper conductor 600/1000 volts Size 95 (Item rates Item P(121) Page 14,	300	14038	PMtr	4211400
SI-20	Providing & laying (MAIN or SUBMAIN) PVC insulated &PVC sheated with 4-core Armoured copper conductor 600/1000 volts Size 35mm (Item rates Item P(114) Page 14,	500	3008	PMtr	1504000

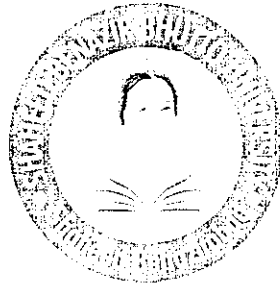
SI-21	Providing & laying (MAIN or SUBMAIN) PVC insulated & PVC sheated with 4-core Armoured copper conductor 600/1000 volts Size 95 (Item rates Item P(118) Page 14.	1676	7520	PMtr	12603520
	TOTAL A				48706608.09
<b>B</b>	<b>Non scheduled items</b>				
NS-1	providing cleaning cutting placing & fixing etc high tensile steel deformed bars conforming to ASTM-A615 GRADE 60.....	5000	p-kg		
NS-2	Supply & installation of 11kv metal clad pad mounted free stand cubical structure (VCB/RMU) Panel, 11kv with metering panel upto 400Amps rating 350MVA complete with CTs (25/5 to 100/5) PTOver current & earth fault coils in conjunction triple pole relay emergency trip system also the providing of volt meter & ampers . meter with selector switches indication lamp steel sheats cabinate factory wired & painted floor mounted . according Engineer instruction . approved by complete WAPDA specification & in all respects & as required for WAPDA sub-station.	1	JOB		
NS-4	Supply & installation of PAD Mounted 630KVA Transformer complete with sound & water proof Canopy voltage ratio 11000HV/415LV. Frequency/Phase 50HZ/3Q Cooling & Insulation system. HT/LT Current . tanks. HV/LV terminals, Copper winding, Ambient Temperature . OFF CKT Tap Changer. Oil filling hole & plug .Oil level indicator, Earthing terminal & System . lifting lugs rating & Diagram plates, Oil Coservator . Oil Drain Valve. approved & complete specification by WAPDA & Site Engineer	2	JOB		
NS-5	Supply & installation of PAD Mounted 430KVA Transformer complete with sound & water proof Canopy voltage ratio 11000HV/415LV. Frequency/Phase 50HZ/3Q Cooling & Insulation system. HT/LT Current . tanks. HV/LV terminals, Copper winding, Ambient Temperature . OFF CKT Tap Changer, Oil filling hole & plug .Oil level indicator, Earthing terminal & System . lifting lugs rating & Diagram plates, Oil Coservator . Oil Drain Valve. approved & complete specification by WAPDA & Site Engineer	2	JOB		

NS-6	Supply & installation of EMERGENCY BASES MOBILE/TROLLEY TRANSFORMER 200KVA complete with sound & water proof Canopy voltage ratio 11000HV/415LV. Frequency/Phase 50HZ/3Q Cooling & Insulation system. HT/LT Current , tanks, HV/LV terminals, Copper winding, Ambient Temperature . OFF CKT Tap Changer, Oil filling hole & plug ,Oil level indicator, Earthing terminal & System . lifting lugs rating & Diagram plates, Oil Coservator , Oil Drain Valve. approved & complete ( main supply & load cabling) indoor out door wiring .specification by WAPDA & Site Engineer	1	JOB		
NS-7	Supply & installation of PAD Mounted 200KVA Transformer complete with sound & water proof Canopy voltage ratio 11000HV/415LV. Frequency/Phase 50HZ/3Q Cooling & Insulation system. HT/LT Current , tanks, HV/LV terminals, Copper winding, Ambient Temperature . OFF CKT Tap Changer, Oil filling hole & plug ,Oil level indicator, Earthing terminal & System . lifting lugs rating & Diagram plates, Oil Coservator , Oil Drain Valve. approved & complete specification by WAPDA & Site Engineer	1	JOB		
NS-8	Removing/shifting & Installation off 200KVA Transformer complete in all respect.	1	JOB		
NS-9	Making 6" holes under roads /culvert/ RCC channel etc upto 100feet in length & upto 3feet depth. in at holes cross the 4" D class UPVC pipe, also making both side main holes 3'3/8" with PCC lean 1:3:6 Brick masonry 1:5 both sides plaster 1:3 mortar , top slab 5" thickness with RCC Cover 4" steel at 6c/c with 3" L. Curring ,cutting, bending complete in all respect approved by Engineer.	15	JOB		
NS-10	providing and laying 3" to 2" PCC 1:2:4 screed in slope with no 8 steel wire mesh reinforcement in panels not exceeding 1.5 SQM over Bituminous torch applied membrane 3 mm thick (HY Grip) prime coat of bitumin over slab. This rate also included the cost of PCC panels joints filling with Rope soaks in bitumin tightened and fixed with blended bitumin filling PCCrain water drainage trench along the in side parapet as shown in drawing	300	p sit		
NS-11	Supply ,installation & testing of moterized 4-pole ACB , 1000Amp tripping ampers 35ka earth-faultProtection relay with CT's ratio 1000/5 . Complete in all respect	4	JOB		
NS-12	Supply , installation , connecting , testing & Commissing of indoor/outdoor 50mm armound 3-Core 11kv eable. both sides heat shrink termination kits & as per WAPDA Specification . complete in all respect	4	JOB		

NS-13	Supply . installation & testing of BUB-BAR Panel , per phase 400Amps with same size Neutral strips, complete MS Sheat box . painted colour . making ten wholes .nut & bolts etc . complete in all respect . approved by Engineer	5	JOB		
NS-14	Providing & laying (MAIN or SUBMAIN) Armoured HT Cables 3CORE Copper conductor 11000VOLT Size 95mm Complete in all respect as required	1340	PMtr		
NS-15	Supply & installation of Indication or Caution tape in yellow colour 4" wide & velid thick approved by Engineer	26000	PMtr		
NS-16	Supply & installation of Indication or Danger plate with red colour 6" diameter & velid thick with 1-meter 20mm steel, engle both side . welding . bending . cutting etc. approved by Engineer	15	JOB		
NS-17	Supply & fixing of G.I Frame of 4'3" window of 18gauge . With mover wood of 2" spacing at 1"1" thick complete in all respect approved by engineer.	2	JOB		
NS-18	Providing & fixing 9"/2-1/4"/3" fair face bricks gutka laid in colored 1:4 cement surki (bricks powder) mortar fix to pre laid #3 MS bars (hoop iron) @ 2' apart and every 4th layer in brick masonry walls also fix to RCC Structure with same 15" long bar grouting and filling with hilti grout 3" in concrete surface treatment with sika weather coat to protect the external moisture including the cost of reinforcement . fixing of scaffolding and its removal curing & finishing complete in all respect at any floor . any height as per specification & as directed by the Engineer in-charge ( only Bricks from hyderabad)	150	sft		
NS-19	Excavation/backfilling .Removing/shifting & Installation of steel STRUCTRAL HT POLES, concrete .curing etc, complete in all respect	5	NO		
NS-20	Removing shifting & Installation of HT RABIT CONDUCTOR,insulator,pins cross arm etc complete in all respect .approved by Engineer	2000	RFT		
	<b>11 kV &amp; HT Line Material with Installation</b>				
NS-21	Steel Structure lattice L Type 36' (HT)	70	No		
NS-22	Steel Structure lattice L Type 45' (HT)	8	No		
NS-23	Cross Aram with braaces	78	No		
NS-24	11kV pin Insulator with pins	239	No		
NS-25	MS Nutt bolt DV 20"	156	No		
NS-26	Nut & Bolt Galvanized 5/8x2"	312	No		
NS-27	Nut & Bolt Galvanized 3/8x6"	150	No		

NS-28	Nut & Bolt Galvanized 5/8x9"	150	No		
NS-29	Nut & Bolt Galvanized 5/8x10"	150	No		
NS-30	Nut & Bolt Galvanized 5/8x14"	150	No		
NS-31	D-Fitting fuse Set Complete Drop out cut ,out assembly	5	No		
NS-32	Washer Round 1x7/16"	700	No		
NS-33	Washer Square 2.25"	170	No		
NS-34	Stay Set with stay wire	22	No		
NS-35	PG Connectors for DOG	100	No		
NS-36	Dead End Clamp for DOG	30	No		
NS-37	Eye nut	30	No		
NS-38	Anchor Schakle	30	No		
NS-39	Disk Insulator	30	No		
NS-40	D Strip for disk Insulators	30	No		
NS-41	Earthing set with clips	18	No		
NS-42	ACSR dOGConductor, HT	9,620	mtr		
	TOTAL B				
TOTAL (A+B)					





**SHAHEED BENAZIR BHUTTO UNIVERSITY  
SHAHEED BENAZIRABAD**

**TENDER DOCUMENTS**

**FOR**

Supplying & Installation of 2-Ton Floor Mount Air  
Conditions at Shaheed Benazir Bhutto University Campus  
Sanghar.

**WILL BE**

**OPENED ON**

**12/07/2018**

## INSTRUCTIONS TO BIDDERS

1. The Contract resulting from this invitation to tender shall be governed by the SPP Rule 2010.
2. In the event of Tender being submitted by the firm, it must be signed by the contractor /Manufacturer / Dealer / Supplier thereof, in the event of the absence of any partner it must be signed on his behalf by a person holding a power of attorney authorizing to do so.
3. The amount of earnest money deposited shall be Rs. 5% of the maximum quoted value of all items, earnest money should be paid by the contractors through Pay Order / Demand Draft of the scheduled banks in favor of Director Finance, Shaheed Benazir Bhutto University Shaheed Benazir abad **(No other payment will be accepted)**.
4. The procuring Agency reserves the right to call any or all the bidder (s) to give presentation / demonstration for their items/works.
5. The proposal of bid shall be opened publicly at the time, date and venue announced and communicated to the bidders in advance.
6. The bidder has to quote the total value of bids in the financial proposal including all taxes.
7. The income tax, sale tax and all Government taxes shall be deducted at a source on total value of bid.
8. The bidder has to provide the GST registration certificate, NTN,PEC Certificate (where applicable) and Sindh Revenue Board registration certificate. The Department while making payments to any supplier / contractor shall deduct according to rule.
9. The Procuring Agency shall have right to frejecting alluring of the tenders as per provisions of SPPRA Rules 2010.
10. The bidders will supply a sample of the material (if any) for approval (if applicable).

## BIDDING DATA

- (a). Name of Procuring Agency Shaheed Benazir Bhutto University campus sanghar
- (b). Brief Description of Works Supply & Installation of 2 Ton floor mountain Air Conditions at SBBU, Sanghar campus)
- (c). Procuring Agency's address SBBU, Sanghar campus
- (d). Estimated Cost:- Rs----- Million
- (e). Earnest Money: - 5% of Contract Work
- (f). Period of Bid Validity (days):- 30 DAYS
- (g) Security Deposit :- ( including bid security):- 5%
- (h). Percentage, If any, to be deducted from bills: - All Govt: Taxes (as per rule)
- (j). Venue, Time, and Date of Bid Opening: - SBBU, SBA – 12:00 Noon @ 12-07-2018
- (k). Time for Completion from written order of commence:- 30 Days
- (m). Deposit Receipt No: Date: Amount

----- (in words and figures)

## Conditions of Contract

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

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

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

### **Clause – 3: Termination of the Contract.**

(A) Procuring Agency/Project Director may terminate the contract if either of the following conditions exists:-

- (i) Contractor causes a breach of any clause of the Contract;
- (ii) The progress of any particular portion of the work is unsatisfactory and notice of 10 days has expired;
- (iii) In the case of abandonment of the work owing to the serious illness or death Of the contractor or any other cause.
- (iv) Contractor can also request for termination of contract if a payment certified by the Engineer is not paid to the contractor within 45 days of the date of the submission of the bill;

(B) The Project Director/Executive Engineer/Procuring Agency has power to adopt any of the following courses as may deem fit:-

- (i) To forfeit the security deposit available except conditions mentioned at a (iii) and (iv) above;
- (ii) To finalize the work by measuring the work done by the contractor.

(C) In the event of any of the above courses being adopted by the Project Director/Executive Engineer/Procuring Agency, the contractor shall have:-

- (i) No claim to compensation for any loss sustained by him by reason of his having purchased or procured any materials, or entered into any engagements, or made any advances on account of, or with a view to the execution of the work or the performance of the contract,
- (ii) However, the contractor can claim for the work done at site duly certified by the Executive Engineer in writing regarding the performance of such work and has not been paid.  
Procuring Agency/Engineer may invite fresh bids for remaining work.

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

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

When time has been extended as aforesaid, it shall continue to be the essence of the contract and all clauses of the contract shall continue to be operative during the extended period.

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

**Clause - 7:**  
**Payments.**

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

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

**Clause - 9: Issuance of Variation and Repeat Orders.**

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

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

**Clause-10: Quality Control.**

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

**Clause – 11: Inspection**

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

**Clause – 12: Examination of work before covering up**

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

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



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

**Clause – 15: Disputes.** All disputes arising in connection with the present contract, and which cannot be amicably settled between the parties, , the decision of the Superintending Engineer of the circle/officer/one grade higher to awarding authority shall be final, conclusive and binding on all parties to the contract upon all questions relating to the meaning of the specifications, designs drawings, and instructions, hereinbefore mentioned and as to the quality of workmanship, or materials used on the work or as to any other questions, claim, right, matter, or thing whatsoever in any way arising out of, or relating to the contract design, drawings, specifications, estimates, instructions, orders or these conditions or otherwise concerning the works, or the execution, of failure to execute the same, whether arising, during the progress of the work, or after the completion or abandonment thereof.

**Clause –16: Site Clearance.** Deleted.

**Clause –17: Financial Assistance /Advance Payment.**

(A) **Mobilization advance:** Deleted

**Clause –18: Refund of Security Deposit/Retention Money.** On completion of the whole of the works (a work should be considered as complete for the purpose of refund of security deposit to a contractor from the last date on which its final measurements are checked by a competent authority, if such check is necessary otherwise from the last date of recording the final measurements), the defects notice period has also passed and the Engineer has certified that all defects notified to the contractor before the end of this period have been corrected, the security deposit lodged by a contractor (in cash or recovered in installments from his bills) shall be refunded to him after the expiry of three months from the date on which the work is completed.

Contractor

Executive Engineer/Procuring  
Agency

## List of BOQ material

Supply & Installation of 2-Tons floor Mountain Air Conditions					
Non Schedule Items					
S.No	Description	Qty.	Unit	Rate	Amount (Rs.)
1	Supply , Installation & Testing of 2Tons Floor Mountain Air Conditions ( Mitsubishi / Dawlances/Orient or equivalent) Complete set with 15000 watts stabilizers 100% copper <b>.or as per site requirement</b>	30	No		
				Total Rs.	
				Total Amount	

- Note:** - 1) Premium Rates to be Inclusive of Cartage charges etc.  
 2) Escalation of labor and Material etc. Cartage and lead shall not be allowed

**Contractor**

**Executive Engineer/Procuring  
Agency**

**SHAHEED BENAZIR BHUTTO UNIVERSITY SHAHEED BENAZIRABAD**

**DEVELOPMENT OF SHAHEED BENAZIR BHUTTO UNIVERSITY SHAHEED BENAZIRABAD  
NAWABSHAH (SINDH)**

**ALLIED ENGINEERING CONSULTANTS (PVT) LTD. 19-A HALI ROAD GULBERG II, LAHORE**

**FLAT FOR STAFF (G-02-10)**

**SUMMARY OF COST**

(As per Schedule of Rates 2012 Government of Sindh)

Sr.NO	DESCRIPTION	AMOUNT (RS)	AMOUNT (RS)
<b>Schedule items</b>			
1	CIVIL WORKS	3,669,627	
2	PUBLIC HEALTH WORKS	485,144	
3	ELECTRICAL WORKS	503,036	
	<b>Sub total</b>	<b>4,657,807</b>	<b>4,657,807</b>
	premium /Rebate		
	<b>Sub-Total</b>		
<b>Non-schedule items</b>			
5	CIVIL WORKS		
6	PUBLIC HEALTH WORKS		
7	ELECTRICAL WORKS		
8	HVAC		
9	NETWORK SOLUTIONS		
	<b>Sub total</b>		
	<b>Total Cost:</b>		

**SHAHEED BENAZIR BHUTTO UNIVERSITY SHAHEED BENAZIRABAD**

**DEVELOPMENT OF SHAHEED BENAZIR BHUTTO UNIVERSITY SHAHEED BENAZIRABAD  
NAWABSHAH (SINDH)**

**ALLIED ENGINEERING CONSULTANTS (PVT) LTD. 19-A HALI ROAD GULBERG II, LAHORE**

**FLAT FOR STAFF (G-02-10)**

**Civil Works**

(As per Schedule of Rates 2012 Government of Sindh)

S.No	Page No. Sl.No.	Description	Qty.	Unit	Rate (Rs)	Amount (Rs.)
		<b>CHAPTER-1 EARTH WORK (EXCAVATION AND EMBANKMENT)</b>				
1	18/1 p4	Excavation in foundation of building bridges and other structures including dabelling dressing refilling around structure with excavated earth watering and ramming lead upto 5ft. (b) In ordinary soil	2918.65	%o Cft.	3176.25	9,270.36
2	21/1 p4	Filling watering and ramming earth under floor with surplus earth excavated from foundation llead upto one chain and lift upto 5 feet.	963.15	%o Cft.	1512.50	1,456.77
3	22/1	Filling watering and ramming earth under floor with new earth excavated from outside lead upto one chain and lift upto 5 feet.	4541.56	%o Cft.	3630.00	16,485.88
		<b>CHAPTER-4 CONCRETE</b>				
4	5(i)/4	Cement concrete plain including placing compacting, finishing and curing, complete (including screening and washing of stone aggregate without shuttering. <b>Ratio 1:4:8 in Foundation</b> (Using SR Cement)	320.34	%Cft	11288.75	36,162.81
5	4 b/4 p14	Cement concrete brick or stone ballast 1-1/2" to 2" gauge. <b>Ratio 1:4:8</b> (Using SR Cement)				
		Same as above but Under Floor	578.84	%Cft	9416.28	54,505.25
6	2/4	Dry rammed brick or stone ballast 1-1/2" to 2" gauge				
		First Floor	309.14	%Cft	3327.50	10,286.65
7	5(f)/4	Cement concrete plain including placing compacting, finishing and curing, complete (including screening and washing of stone aggregate without shuttering. <b>Ratio 1:2:4</b>	179.63	%Cft.	14429.25	25,919.47
	6d/4 p16	First Floor	173.05	%Cft.	15639.25	27,063.40
8	28b/4	Damp proof course with Cement sand and shingle concrete 1:2:4 including 2-coats of asphalted mixture. (b) <b>2" thick</b>	259.50	%Sft	3912.85	10,153.85
9	70/18	Vertical damp proof course of 3/4" thick cement plaster 1:2 with bitumen at 20 lbs per % sft	392.00	%Sft	2760.99	10,823.08

10	13/4 p 34	Two coats of bitumen laid hot using 34 Lbs for % sft Over roof and blinded with sand at one Cft Per % Sft (footing)				
		Same as above but on RCC Plinth Beam Top Horizontelly	0.00	%Sft	1887.40	-
11	6a/4	Reinforced cement concrete work including all labor and material expect the cost of steel reinforcement and its labor for bending and binding which will be paid separately. This rate also includes all kinds of form moulds: lifting shuttering curing rendering and finishing the exposed surface. <b>(including screening and washing of shingle)</b> <b>(a)</b> R.C. work in roof slab, beams columns rafts, lintels and other structural members laid in situ or precast laid in position completed in all respects. <b>(Use Sulphate Resisting Cement)</b>				
	(II)	Ratio (1:1.5:3)	1711.69	Per Cft	349.00	597,380.25
	6d/4	Add extra labor for RC concrete in First Floor	714.14	Per Cft	12.10	8,641.15
	(I)	Ratio (1:2:4)	766.26	Per Cft	337.00	258,227.94
	6d/4	Add extra labor for RC concrete in First Floor	616.91	Per Cft	12.10	7,464.63
		<b>CHAPTER-5 BRICK WORK</b>				
12	4(I)/5	Pacca brick work in foundation and plinth in: (d) Cement Sand Mortar 1:5	1701.28	%Cft.	12176.08	207,149.37
13	5(I)/5	Pacca brick work in <b>Ground Floor</b> in: Cement sand mortar 1:5	2176.88	%Cft.	12902.08	280,862.15
	6/5	add extra labor in item No 5 for brick work in <b>First Floor</b>	2176.88	%Cft.	13340.71	290,410.58
14	5(I)/5	Pacca brick work in <b>Ground Floor</b> in: (c) Cement sand mortar 1:4	984.19	%Cft.	13227.41	130,182.52
	6/5	add extra labor in item No 5 for brick work in <b>First Floor</b>	860.34	%Cft.	13666.04	117,574.88
15	29/5	Supplying and filling sand under floor and plugging in walls.	578.84	%Cft.	1141.25	6,606.02
		<b>CHAPTER-7 ROOFING</b>				
16	18/7	Khuras on roof 2'x2'x6"	5.00	Each	358.68	1,793.40
17	22/7	Cast iron rain water down pipe fixed in place excluding heads and shoes but including painting and clamp, etc. (a) 4" dia cast iron down pipe	100.00	Rft.	423.13	42,313.00
18	23/7	Rain water down pipe cast iron heads fixed in place including cost of clamp, hold fast and painting.	4.00	Each	873.29	3,493.16
19	24/7	Shoes, bends or offsets for cast iron rain water down pipe including fixing and painting.	4.00	Each	542.03	2,168.12

<b>CHAPTER-8 FLOORING</b>						
20	16/8 p41	Providing and laying 1" thick topping cement concrete (1:2:4) including surface finishing and dividing into panels: <b>e) 2" thick</b>	564.00	% Sft	3275.50	18,473.82
21	25/8	Laying floors of approved colored glazed tiles 1/4" thick laid in white cement and pigment on a bed of 3/4" thick cement mortar 1:2.	130.55	% Sft	27747.06	36,223.79
		First Floor	128.65	% Sft	27973.94	35,988.47
22	38/8	Glazed tile dado 1/4" thick laid in pigment over 1:2 cement sand mortar 3/4" thick including finishing.	497.00	% Sft	28299.30	140,647.52
		First Floor	497.00	% Sft	28526.18	141,775.11
23	53/8 p45	Mosaic tiles of white cement 12" x 12" x 1" of approved shade with khapcha laid flat in 1:2 white cement mortar over a bed of 3/4" thick grey cement mortar 1:2	1202.25	% Sft	7579.84	91,128.63
		Extra Labour For First Floor	1164.21	% Sft	7806.72	90,886.61
<b>CHAPTER-9: SURFACE RENDERING</b>						
24	10 (b) /9	Cement plaster 1:3 upto 12' height (ceiling) 1/2" Thick	1351.00	% Sft	2344.59	31,675.41
		First Floor	1423.79	% Sft	2484.59	35,375.22
		Mumty Floor		% Sft	2624.59	
25	12 (b) /9	Cement plaster 1:5 upto 12' height (Internal Walls) 1/2" Thick	2278.10	% Sft	2241.80	51,070.33
		First Floor	2320.98	% Sft	2381.80	55,281.10
		Mumty Floor		% Sft	2521.80	
	12 (a) /9	Cement plaster 1:5 upto 12' height (Internal Walls) 3/4" Thick	2278.10	% Sft	2678.50	61,018.77
		First Floor	2320.98	% Sft	2818.50	65,416.82
26	11 (c) /9	Cement plaster 1:4 upto 12' height (Ex. Walls) 3/4" Thick	528.00	% Sft	3015.00	15,919.20
		First Floor	1425.00	% Sft	3155.00	44,958.75
27	19/9 b	Cement pointing struck joint on walls Ratio (1:2)	3858.00	% Sft	1287.74	49,681.01
28	23/9	Priming Coat of Chalk Distemper	11972.94	% Sft	442.75	53,010.17
	24 b /9	Distemping Two coats	11972.94	% Sft	1043.90	124,985.47
29	38A/9	Preparing the surface and painting with weather coat i/c rubbing the surface with rubbing brick / sand paper, filling the voids with chalk / plaster of Paris and then painting with weather coat of approved make. (New surface) First Floor	1953.00	% Sft	1328.25	25,940.72
	38B/9	2nd Coat	1953.00	% Sft	619.85	12,105.67
	38A/9+ 42/9	Extra Labour for First Floor	1425.00	% Sft	228.09	3,250.28

<b>CHAPTER-10 WOOD WORK</b>						
30	7 b /10	First class deodar wood wrought, joinery in doors and windows etc, fixed in position <b>excluding chowkats</b> hold fasts hinges, iron tower bolts, chocks cleats, handles and cords with hooks, etc <b>Deodar paneled or paneled and glazed or fully glazed.</b>				
		1-3/4" thick (7b/10 - 25b/10 =1273.76-370.83)		Per Sft	902.93	-
31	21/10	Providing and fixing approved quality mortice lock	37.00	Each	1786.13	66,086.81
32	19Aii/10	Providing and fixing sliding bolts to doors Iron Sliding Bolts 12" Long	37.00	Each	222.23	8,222.51
<b>CHAPTER-II PAINTING AND VARNISHING</b>						
33	5c /11	Preparing Surface and painting of Doors and windows any type (including Edges)				
	i	Priming Coat	868.00	% Sft	862.95	7,490.41
	ii	Each subsequent coat of paint(2 coat)	868.00	% Sft	1253.46	10,880.03
<b>CHAPTER-17 IRON WORK</b>						
34	30/17	Providing and fixing iron steel grill using solid square bars of size 1/2" x 1/2" placed at 4" c/c and frame of flat iron patti of 3/4" x 3/4" i/c circle shape at 1' apart equivalent fitted with screws or pins i/c painting 3 coats with 1st coat of red oxide paint etc.	380.00	P.Sft	194.16	73,780.80
35	29/17 p 92	Providing and fixing GI frame / chowkhat of size 7" x 2" or 4-1/2" x 3" for door using 20 gauge GI sheet i/c welding hinges and fixing at site with necessary hold fasts, filling with cement sand slurry of ratio 1"6 and repairing the jambs. The cost also including all carriage, tools and plants used in making and fixing.	375.00	Rft.	228.90	85,837.50
<b>CHAPTER-18 MISCELLANEOUS</b>						
36	92/18	Providing Anti termite treatment by spraying / sprinkling / spreading Heptachalar 0.5% Emulsion as an ever all pre-construction under the slab and along attache perches or entrances etc. complete as per directions of Engineer Incharge.	2817.19	Per Sft	9.74	27,439.43
37	13/7	Two coats of bitumen laid hot using 34 Lbs for % sft Over roof and blinded with sand at one Cft Per % Sft <b>(Raft footing and RCC Columns in foundation)</b>	2579.33	%Sft	1887.40	48,682.27
<b>Total C/O to Summary of Cost:-</b>						<b>3,669,627</b>

**NON SCHEDULE ITEMS**

**Civil Works**

SI.No.	Description	Qty.	Unit	Rate	Amount (Rs.)
NS-1	Providing and laying 3" to 2" thick PCC 1:2:4 screed in slope with no. 8 steel wire mesh reinforcement in panels not exceeding 1.5 SQM over Bituminous Torch applied membrane 3mm thick (Hy Grip) i/c prime coat of bitumen over slab. This rate also included the cost of PCC panels joints filling with Rope soaks in bitumen tightened & fixed with blended bitumen filling, PCC rain water drainage trench along the in side parapet as shown in drawing as per approval of the Engineer.	1680.00	Per Sft		
NS-2	Providing, cleaning, cutting, bending, placing & fixing in position etc., high tensile steel deformed bars conforming to ASTM-A615 Grade 60, made of Karachi Steel Mill Billet, including cost of spacer blocks, steel chairs and pins, binding wire and those over laps which are not shown on drawings, complete in all respects as shown on drawings and or as directed by the Engineer.	8672.81	kg		
NS-3	Providing and fixing in position MS railing 2'-9" high consisting of 3/4 # MS vertical bars grouted in RCC steps @ 7" apart and 1-1/2" dia MS pipe 10 swg hand railing mounted over bars i/c anti corrosive red oxide primer coat with 3 coats of enamel paint	39.00	Per Rft		
NS-4	Same as above but Corridor Railling	25.00	Per Rft		
NS-5	Providing and fixing 1/2" (40mm) thick solid flush door shutter It C.P. Finger plate and kick plate (Approved Factory Manufactured) with commercial ply (5 mm thick) on both sides double pressed and teak wood lipping 1/2"x3/8" (40mm x 10mm) around shutter including chromium plated fitting, iron hinges with aluminium kick plate 22 SWG on both sides & finger plate complete in all respect. c) 1/2" thick (40 mm)	434.00	Per Sft		
NS-6	Providing and fixing Formica of approved quality on door shutters as shown on drawings.	140.00	Per Sft		
NS-7	Providing and fixing panelled door of M.S. sheet, with forged door leaves of M.S. sheet 22 SWG fitted in hollow frame chowkat 3"x4 1/2" (75 mm x 113 mm) made of M.S. sheet 18 SWG filled with plain cement concrete 1:3:6 etc. complete with all fittings and hammer painting, including carriage to site and fixing in position.	49.00	Per Sft		
NS-8	Providing and applying Weather resisting coat of Sika Guard 700-S transparent as per Sika instructions	3858.00	Per Sft		



NS-9	providing and laying 3/4" thick full width / length factory polished Royal beige (china verona ) or equivalent approved marble on kitchen top entrance steps risers and treads plates lay in cement slurry over cement mortar (1:2) prepared bed and joint fill complete in all respects as per approval of the Engineer.	251.36	Per Sft		
NS-10	Providing/fixing in position Aluminum frame glazed sliding windows consisting of heavy Deluxe anodized sections 1.6mm thick manufactured by <b>M/s Prime / Chawlla</b> and assembled by approved fabricators. This rate includes Aluminum sliding wire gauze shutter best quality imported fitting P.V.C gasket, 5mm thick brown or any approved tinted / plain <b>Ghanni glass</b> complete in all respects. This rate includes jamb (water tight)sealing with silicon	380.00	Per Sft		
NS-11	Providing / laying Kitchen counter cabinet with 7/8" thick China Verona marble top with half round top edge as per design / drawing comprising with 3/4" thick laminated board with deodar wood lipping 1/2" wide on all edges duly lacquer polish of approved shade complete in all respects as per approval of the Engineer.	47.50	Per Sft		
NS-12	Providing / laying Kitchen wall mounted cabinet as per design / drawing comprising of 3/4" thick laminated board with deodar wood lipping 1/2"x3/4" on all edges duly lacquer polished of approved shade complete in all respects as per approval of the Engineer.	36.00	Per Sft		
NS-13	Providing / laying Wardrobe as per design / drawing comprising of 3/4" thick laminated board with deodar wood lipping 1/2"x3/4" on all edges duly lacquer polished of approved shade complete in all respects as per approval of the Engineer.	440.00	Per Sft		
NS-14	Providing and fixing 3/8" thick pre polished marble tiles skirting 4" high /dado of approved quality marble, over 1/2" thick base of cement plaster including filling , grouting and joints the tiles in with white cement slurry. i/c curing finishing and cleaning complete in all respects. 1) new works	114.68	Sft		
	First Floor	116.99	Sft		
<b>Total C/O to Summary of Cost:</b>					

**SHAHEED BENAZIR BHUTTO UNIVERSITY SHAHEED BENAZIRABAD**

**DEVELOPMENT OF SHAHEED BENAZIR BHUTTO UNIVERSITY SHAHEED BENAZIRABAD NAWABSHAH (SINDH)**

**ALLIED ENGINEERING CONSULTANTS (PVT) LTD. 19-A HALI ROAD GULBERG II, LAHORE**

**FLATS FOR STAFF (G-02-10)**

**BOQ**

**ELECTRICAL WORKS**

**CSR - 2012 (Govt of Sindh)**

SR. NO	DESCRIPTION	QUANTITY	UNIT	UNIT RATE	AMOUNT	Ref: SOR
				(Rs)	(Rs)	Item/Page
★	<b>General</b>					
	All items of Electrical works described under title "Description" unless specifically indicated otherwise, shall be deemed to be read in terms of supply, storing, protecting, making, assembling installing, applying, laying, fixing, testing commissioning, clearing etc. of the same inclusive of but no limited to all materials, labour, tools, plants equipments, appliances etc. as required for the completion and maintenance of the Electrical work as per drawings specifications, and/or as directed by the Engineer Incharge.					
★	<b>NOTE</b>					
	The project Contractor shall carry out all Electrical works by approved (Licenced by Local Electrical Inspector) Electrical sub-Contractor.					
1	<b>WIRING FOR LIGHT OR FAN POINT</b>					
	Wiring for light or fan point with 3/.029 PVC insulated wire in 20mm (3/4") PVC conduits recessed in the wall or column as required.	139	Per Point	1,130.00	157,070.00	SH-II/P/124/15
2	<b>WIRING FOR PLUG POINT</b>					
	Wiring for plug point with 3/.029" PVC insulated wire in 20mm (3/4") PVC conduit recessed in the wall or column as required.	52	Per Point	985.00	51,220.00	SH-II/P/126/15
3	<b>WIRING FOR CALL BELL</b>					
	Wiring for call bell point with 3/.029" PVC insulated wire in 20mm(3/4") PVC conduit recessed in the wall or column as required.	3	Per Point	1,764.00	5,292.00	SH-II/P/128/15
4	<b>FOR LIGHT CIRCUIT WIRING</b>					
	Providing & laying ( MAIN or SUB MAIN) PVC insulated with size 3-7/.029 coper conductor in 3/4" dia PVC conduit recessed in the wall or column as required.	305	Per Mtr	294.00	89,670.00	SH-II/D/24/4

5	<b>FOR POWER CIRCUIT WIRING</b>					
	Providing & laying ( MAIN or SUB MAIN) PVC insulated with size 3-7/.036 coper conductor in 3/4" dia PVC conduit recessed in the wall or column as required.	180	Per Mtr	358.00	64,440.00	SH-II/D/25/4
6	<b>FOR POWER CIRCUIT WIRING</b>					
	Providing & laying ( MAIN or SUB MAIN) PVC insulated with size 3-7/.044 coper conductor in 3/4" dia PVC conduit recessed in the wall or column as required.	141	Per Mtr	468.00	65,988.00	SH-II/D/26/4
7	<b>FLUSH TYPE SWITCHES</b>					
	Providing & fixing one way SP 5amp flush type switches.	154	Per No	54.00	8,316.00	SH-XI/A/219/33
8	<b>FLUSH TYPE SOCKETS</b>					
9	Providing & fixing two pin 5amp plug & socket flush type switches.	32	Per No	83.00	2,656.00	SH-XI/A/225/33
10	Providing & fixing three pin 5amp plug & socket flush type switches.	32	Per No	151.00	4,832.00	SH-XI/A/226/33
11	Providing & fixing three pin 15/20 amp plug & socket flush type.	16	Per No	162.00	2,592.00	SH-XI/A/227/33
12	<b>FANS</b>					
	Providing & fixing Brass Ceiling fan 56" (good quality)	16	Per No	3,185.00	50,960.00	SH-XI/C/235/34
				<b>TOTAL</b>	<b>503,036</b>	

**SHAHEED BENAZIR BHUTTO UNIVERSITY SHAHEED BENAZIRABAD**

**DEVELOPMENT OF SHAHEED BENAZIR BHUTTO UNIVERSITY SHAHEED BENAZIRABAD  
NAWABSHAH (SINDH)**

**ALLIED ENGINEERING CONSULTANTS (PVT) LTD. 19-A HALI ROAD GULBERG II, LAHORE**

**FLATS FOR STAFF (G-02-10)**

**BOQ**

**(As Per Market Prevailing Rates)**

Sr. No.	DESCRIPTION	QUANTITY	UNIT	UNIT RATE	AMOUNT
				(Rs.)	(Rs.)
☆	<b>GENERAL</b>				
	All items of Electrical works described under title "Description" unless specifically indicated other wise, shall be deemed to be read in terms of supply, storing, protecting, making, assembling, installing, applying, laying, fixing, testing commissioning, clearing etc. of the same inclusive of but not limited to all materials, labour, tools, plants equipments, appliances etc. as required for the completion and maintenance of the Electrical work as per drawings specifications, and/or as directed by the Engineer Incharge.				
NS-1	<b>LIGHT FITTINGS AND FIXTURES</b>				
	Supply, installation, fixing, wiring, connection, testing and commission of flauorescent fittings and fixtures, ceiling mounted or ceiling suspended or installed in the false ceiling or wall mounted, pole mounted, weather proof, adjustable or non-adjustable, complete with chokes, spring loaded rotary holders starter, power factor correction capacitors, antiradio interference starters, ballast with brackets and down rod, industrial shade, brass lamp holder proper gasketting necessary fixing accessories internal wiring, connection, earthing terminal etc. These are to be installed as and where shown on drawings or as required as per site conditions. Complete in all respects.				
NS-2	<b>LIGHTS</b>				
	These will consist of as described and equipped as above but specified as under These light units should be complete in all respects.				
1	Ceiling mounted Energy Saver light with 1x24Watts.	89	No.		
2	Energy Saver Bulb with 1x24Watts.	18	No.		
NS-3	<b>BACK BOXES FOR SWITCH BOARD WITH FACE PLATE.</b>				
	Supply and erection of M.S Sheet boxes of 16 SWG, 4" deep with 3/16" thick bakalite sheet top, for recessed wiring including making holes for Switches, Socket, & Fan dimmer etc.				
a	4"x4" Board	45	No.		
b	7"x4" Board	18	No.		
c	9"x4" Board	15	No.		

<b>NS-4</b>	<b>CABLES</b>				
a	<b>4-CORE CABLES</b>				
i	4-core 10mm (Sq)	60	Mtr		
i	4-core 25mm (Sq)	60	Mtr		
ii	4-core 70 mm (Sq)	35	Mtr		
b	<b>SINGLE CORE CABLES</b>				
	Single core, PVC insulated, copper conductor 660/1100 volts grade cables.				
i	10mm (Sq)	60	Mtr		
ii	16mm (Sq)	60	Mtr		
iii	25mm (Sq)	20	Mtr		
iv	35mm (Sq)	35	Mtr		
v	70mm (Sq)	32	Mtr		
<b>NS-5</b>	<b>DISTRIBUTION BOARD</b>				
	Supply, installation and connection of wires/cables, testing and commissioning of 500 volts, 50 Hz, 3 phase and neutral distribution boards, (DBs) concealed type, wall mounted to be installed as and concealed type, wall mounted to be installed as and where shown on drawings, made of M.S. Sheet 16 SWG with hinged door, handle, catcher earthing bar, neutral strip, internal wiring of Pakistan Cable/Pioneer Newage from MCCBs terminating on cable terminal blocks. One coat of anti-rust paint with further two coats of enameled paint of approved colour, all necessary materials complete in all respects and manufactured by any one of the approved manufactures and conforming to single line diagram. D.B shall be equipped with the following equipment as shown on drawings				
1	<b>DBL-G</b> (07-WAYS Distribution)	1	Job		
2	<b>DBL-F</b> (07-WAYS Distribution)	1	Job		
3	<b>DBP-G</b> (09-WAYS Distribution)	1	Job		
4	<b>DBP-F</b> (09-WAYS Distribution)	1	Job		
<b>NS-6</b>	<b>L.T. SWITCHEAR SYSTEM</b>				

	Supply, installation, testing and commissioning of Main Panel Board MPB, installed as and where shown on drawing, made of M.S sheet <b>14 SWG</b> metal clad totally enclosed, indoor, floor mounting, cubicle with front access, in free standing design including all auxiliaries, internal wiring, circuit labels, earthing bar, suitable for system voltage 220/500 volts, A.C. 50 Hertz, 3 phase, neutral and earth air insulated bus bars of hard drawn 99% electrolytic copper, duly painted with antitrust paint and 2 coats of stove enameled paint of approved colour, equipped as under and manufactured by any one of the approved manufacturers, and complete in all respects. including cost of all necessary accessories and conforming to the consultant single line diagram 'The following material and auxiliary equipments shall be provided.				
	a) <u>BUS BARS SYSTEM</u>				
	3-Phase, neutral and earth air insulated bus-bars of hard drawn 99% electrolytic copper conductor requisite rating 500 volts, A.C. 500 volts, A.C. 50 Hertz, duly painted with antitrust paint and 2 coats of stove enameled paint of approved colour.				
	b) <u>PROTECTION SYSTEM (THERMAL &amp; MAGNETIC RELAY).</u>				
	Under voltage and over load short circuit protection with adjustable thermal and magnetic release shall be provided.				
	c) <u>NEON PHASE INDICATIONS Marayusa/Fuji</u>				
	Main Panel Board, MPB, should have neon phase indications in Red, Yellow and Blue colours on respective phases.				
	d) <u>CURRENT TRANSFORMERS. C.Ts.</u>				
	3 Nos. Air cooled ring type current transformers, C.Ts with primary to secondary requisite ratio on incoming and one C.T. on each outgoing circuit for protection and metering purposes.				
	e) <u>AMMETER</u>				
	Amperemeter scale 0-400 AMPS rane A.C 50 CPS with dial face of 96x96mm shall be provided on incomming & outgoing MCCB/ACB slong with selector switch on incoming. (96x96)				
	f) <u>VOLTMETER</u>				
	Voltmeter scale 0-500 volts range. A.C, 50 CPS with dial face of 96x96mm shall be provided on incoming MCCB/ ACB along with the selector switch. (96x96)				
	g) <u>SAFETY FUSES</u>				
	Safety fuses before the electrical measuring indicating quantity meters (Voltmeter, ammeter etc.) must be provided.				
	h) <u>SELECTOR SWITCH Breter</u>				
	Selector switch will be provided to select the phase with each ammeter and voltmeter.				
1	<b>MAIN PANEL BOARD NORMAL</b>	1	Job		
2	<b>MAIN PANEL EMERGENCY</b>	1	Job		
NS-7	<b>TELEPHONE &amp; INTERCOM OUTLET POINTS &amp; WIRING.</b>				

	Supply, installation, fixing, wiring, testing and commissioning of telephone & intercom outlet points wired with two pair / required requisite pair telecommunication cable (approved colours) as per PTC Formerly T&T Department) standards and specifications; run in ¾" (20mm) dia PVC heavy gauge conduits recessed in walls, slabs, columns, floor or as per required as per site conditions including the cost of PVC conduit accessories, junction boxes, pull boxes, steel pull wire etc. M.S. sheet box of 16 SWG requisite size for flush mounting to house this and cover of approved type, material, quality and make with the two coats of enamelled paint to the back box . It includes telephone rosette with jacks etc. Complete in all respects.	5	Job		
<b>NS-8</b>	<b>COMPUETR WIRING &amp; COMPUTER OUTLET</b>				
	Wiring for each data/computer point included cost of 1 no. 4 pair CAT- 6 (UTP) cable tinned copper conductor PVC insulated PVC sheathed to support data rates upto 1GBits/s. or more than 1 GBits/s with connections at both ends, designation labels. Cable shall be installed from main server to patch panel for interconnecting of active components (switch hubs) as per route shown on drawings in pre-laid 1" dia. PVC conduit heavy duty make Beta or in cable trunking , recessed in slabs, floor, walls, columns or above false ceiling or as required as per site conditions including cost of computer Socket RJ-45 all necessary materials and accessories, complete in all respects.	4	No		
<b>NS-9</b>	<b>CABLE TRENCH</b>				
	Excavation for cable trenches in any type of soil except rock to required depth including dagbelling, dressing, back filling around structure with excavated earth, watering ramming and disposing unsuitable and surplus excavated material to a site indicated by Engineer and dewatering where required, shoring, timbering, trimming etc. complete in all respects and as per drawings and standard specification and of the following sizes.				
	18" wide x 24" deep	38	Mtr		
<b>NS-10</b>	<b>CABLE CONDUITS (PVC / RCC / GI / MS PIPES)</b>				
	Supplying, installing, fixing, laying and erecting of cable conduits/pipes for wiring recessed in wall, ceiling, columns, slab, floor ground as and where shown on the drawing or as required as per site conditions etc. including inspection boxes, pull boxes, steel pull wire, hooks, tees, bends, cutting jharries, chases and repairing surfaces etc. complete with all specials. It includes rates for the pipes also. These will consist of as described above but specified as under:				
	1" diameter PVC pipe	395	Mtr		
	2" diameter PVC pipe	135	Mtr		
<b>NS-11</b>	<b>CABLE MANHOLES (CABLE CATCH PITS) CABLE INSPECTION PITS</b>				

	Construction of brick manhole 9" thick walls, requisite internal size with cement mortar internal plaster 1:4 RCC 4" thick manhole cover with lifting hooks, including cost of sealing compound to be used to seal the RCC pipes ends for all incoming and outgoing L.T. cables, 2 coats of hot bitumen on the external surface complete in all respects with all necessary materials				
	2' x 2' x 2'	3	Job		
<b>NS-12</b>	<b>FAN CLAMPS/BOX</b>				
	Providing and fixing mild steel bar fan Box clamps 15.8 mm (5/8") dia suitable for R.C.C. roof	16	Each		
<b>NS-13</b>	<b>EXHAUST FANS.</b>				
	Supply, installation, fixing, wiring testing and commissioning of wall fitted exhaust fans of required requisite sweep including cost of blades, plastic frame, iron frame, louvers, capacitor, nuts, bolts, all necessary fixing accessories, complete in all respects. The item will be approved quality and make. These will consist of as described and equipped above but specified as under.				
	18" Sweep	16	Each		
<b>NS-14</b>	<b>ERECTION OF EXHAUST FANS LOVURE</b>				
	P/E butterfly shutter for 457mm (18")sweep exhaust fan complete as required	16	Each		
<b>NS-15</b>	<b>EARTHING SET</b>				
	P/F earthing set with 2"x 2"x 1/2" copper plate burried in ground at a depth of 12 or less if water comes out from the ground level with salt and chorcoal, etc ,in/c. making the pit 12" deep by excavation of all type of soil. Earth plate to be connected with No. 8 S.W.G. bare copper wire run in 1/2" G.L. pipe straght from the earth plate upto the metallic Electrical assesary i/e providing necessary Tee.	3	Each		
<b>NS-16</b>	<b>EARTH CONDUCTOR</b>				
	providing & fixing hard drawn bare copper wire no.10 S.W.G as earth continuity with any given mains or sub-mains in all system of wiring including metallic Electrical accessories.	15	Rft		
	Providing and fixing 1" diameter 3ft long lighting copper rod with five spikes and balls on its head as required.	2	Job		
	Providing and fixing 1-1/2" x 1/3" Thick copper strip with suitable saddle at 12" intervals complete as required.	2	Rft		
<b>TOTAL</b>					



### HVAC SYSTEM

NS-17	Supply & installation of air cooled decorative wall mounted reversible split type a/c including thermostat, refrigerant charging, electrical works hanging & commissioning as specified & scheduled.				
	1.5 TON SPLIT A/C (Optional)		Each		
NS-18	Supply & Installation of Refrigerant Copper Piping with Conduits Insulation as Specified & Shown On Drawings for Following A/C				
	1.5 TON SPLIT A/C	210	Rft		
II/F-1, vol IV, Part VI, p25	Supply and installation of PPRC pipes and fittings for (AC) condensate drain drain complete in all respect for condensate drain ( PN10 and all fittings PN25 )				
	DIA 1-1/4 "	210	Rft		
<b>TOTAL</b>					

**SHAHEED BENAZIR BHUTTO UNIVERSITY SHAHEED BENAZIRABAD**

**DEVELOPMENT OF SHAHEED BENAZIR BHUTTO UNIVERSITY SHAHEED BENAZIRABAD  
NAWABSHAH (SINDH)**

**ALLIED ENGINEERING CONSULTANTS (PVT) LTD. 19-A HALI ROAD GULBERG II, LAHORE**

**FLAT FOR STAFF (G 02-10)**

**BOQ**

**PLUMBING WORK**

Sr.No	Item	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
		<b>PLUMBING FIXTURES AND FITTINGS</b>				
1	1, p1 chp-1	Providing and fixing squatting type white glazed earthen ware wc pan with including the cost of flushing cistern with internal fitting and flush Pipe with bend & making requisite number of holes in walls plinth & floor for pipe connections & making good in cement concrete 1:2:4				
	A.	(i) W.C pan of not less than 23" clear opening between flushing rims and 3 gallons flushing tank with 4" die C.I. trap.				
		(ii) with 4" dia white glazed earthen ware trap & plastic thimble.	Each	4	5,088.20	20,352.80
	10, p3 chp-1	Providing & fixing 24" x 18" lavatory basin in white glazed earthen ware complete with & I/c the cost of W.I or C.I cantilever brackets 6 inches built into walls, painted white in two coats after a primary coat of red lead paint a pair of 1/2" dia rubber plug & chrome plated brass chain 1-1/4" dia, malleable iron or brass unions and making requisite number of holes in walls , plinth & floor for Pipe connections and making good in cement concrete 1: 2: 4 (Foreign or Equivalent).	Each	4	4,928.00	19,712.00
	12, p4 chp-1	Same as above but size 22" x 16"	Each		4,694.80	-
	11-ii, p3 chp 1	Add extra labor for providing & fixing of earthen ware pedestal white or colored glazed (Foreign or Equivalent..)	Each	4	2,533.47	10,133.88
5	19-ii, p6 chp 1	Providing & fixing steel sinks stainless local make complete with cast iron or wrought iron brackets 6 inches built in wall, 1 1/2" c.p bubbler plug chrome plated brass chain, 1 1/2" c.p brass waste, with 1 1/2" P.V.C waste pipe & making requisite number of holes in wall & plinth & floor pipe connection & making good in cement concrete 1:2:4				
		(a) Steel sink stainless sized 40"x20" local make (Standard Pattern)	Each	4	5,712.30	22,849.20

	20-ii, p6 chp 1	Providing & fixing 6" x 2" or 6" x 3" C.I floor trap of the approved self cleaning design with a C.I screwed down grating with or without a vent arm complete with & l/c making requisite number of holes in walls, plinth & floor for Pipe connections & making good cement concrete 1:2:4.	Each	12	2,024.43	24,293.16
6	1-iii, p7 chp 2	Providing and fixing chrome plated brass towel rail Complete with brackets fixing on wooden cleats with 1" long C.P brass screws.				-
		(iii) Towel rail 24" long (b) 3/4" dia round or square (Superior Quality)	Each	4	1,082.95	4,331.80
8	3- p7 chp 2	Providing and fixing 24"x18" beveled edge mirror of Belgium glass complete with 1/8" thick hard board and CP screws fixed to wooden cleats. i/c 5" wide glass shelf with CP brass brackets				-
		(b) Superior Quality	Each	4	2,451.00	9,804.00
9	5- p8 chp 2	Providing and fixing soap tray earthen ware with CP screws etc. complete	Each	4	497.20	1,988.80
	6- p8 chp 2	Providing and fixing soap tray plastic made of superior quality and design with fine finishing and CP screws etc. complete	Each	4	169.40	677.60
	2- p16 chp 6	Supplying & fixing in position C.P Bib cock. (b) 1/2" dia C.P bib cock, Standard pattern.	Each	4	150.92	603.68
10	11- p18 chp 6	Concealed C.P fitting of superior quality for tiles bath rooms.				-
11	12a- p18 chp 6	S/Fixing concealed tee-stop cock of superior quality with CP head 1/2" dia	Each	12	843.92	10,127.04
12	14a- p19 chp 6	S/Fixing wash hand basin mixer of superior quality with CP head 1/2" dia	Each	4	2,882.00	11,528.00
13	15- p19 chp 6	S/Fixing Jet shower with rod of superior quality single CP head 1/2" dia	Each	4	1,142.24	4,568.96
16	17- p19 chp 6	Supplying & fixing sink mixture cock of superior quality with c.p head etc complete.	Each	4	2,745.60	10,982.40
	3- p121 chp 8	Supplying & fixing fiber glass tank of approved quality and design and wall thickness as specified i/c cost of nuts, bolts and fixing in platform of cement concrete 1: 3: 6 and making connections for in -let ,& out-let & over flow pipes etc. complete.				
		(c) 500 gallons wall thickness 4.5 mm	Each	2	37,505.42	75,010.84
23	1- p24 chp 10	Providing & fixing 6" x 4" C.C gully trap with 4" outlet complete with 4" thick 1: 2: 4 C.C. for bed & 1/2" thick cement plaster (1:3) to the karb, C.I grating 6" x 6" & C.I cover and frame 12" x 12" (inside) etc. complete.				-
		<b>C.C Gully Trap 6" x 6" x 4"</b>				-
		(i) With C.I Cover & frame.	Each	6	1,358.17	8,149.02
						-
9	6- p16. chp 6	Providing and fixing ball valve (with unsoldered copper Ball) made to BSS 1212				-
	i	1/2" dia	Each		235.84	-
	ii	3/4" dia	Each	8	290.84	2,326.72

	iii	1" dia	Each	4	318.34	1,273.36
	iv	1 1/2" dia	Each	4	573.70	2,294.80
	v	2" dia	Each		738.76	-
1.5	II/F-1, vol IV, Part VI, p25	Provide & laying and fixing in trenches i/c fitting, jointing & testing etc. complete in all respects the High Density Polyethylene (PE) pipes (HDPE-100) for W/S confirming ISO 4427 / DIN 8074/8075 B.S 3580 & PSI 3051				
		PN10 and all fittings PN25				
		a) 25mm	Rft	326	29.00	9,454.00
		b) 32mm	Rft	68	36.00	2,448.00
		c) 40mm	Rft		47.00	-
1.6	II/F-1, vol IV, Part VI, p25	Provide & laying and fixing in trenches i/c fitting, jointing & testing etc. complete in all respects the High Density Polyethylene (PE) pipes (HDPE-100) for W/S confirming ISO 4427 / DIN 8074/8075 B.S 3580 & PSI 3051				-
		PN16 and all fittings PN25 (External)				-
		a) 25mm	Rft		34.00	-
		b) 32mm	Rft	192.00	44.00	8,448.00
		c) 40mm	Rft	178.00	62.00	11,036.00
		d) 50mm	Rft		92.00	-
		e) 63mm	Rft		134.00	-
1.5	II/E-4, vol IV, Part VI, p23	Provide & laying uPVC pipes of Class "B" fixing in trenches i/c cutting, fitting and jointing with solvent cement i/c testing with water to head of 61meter or 200 ft.				-
		a) 80mm (3" dia)	Rft	164.00	90.00	14,760.00
		b) 100mm (4" dia)	Rft	148.00	136.00	20,128.00
		d) 150mm (6" dia)	Rft	180.00	259.00	46,620.00
		e)200mm (8" dia)	Rft		397.00	-
	1-chp-iii vol IV, Part VI, p60	Excavation for pipe line in trenches and pits in soft soil i/c clay or mud trimming and dressing sides to true alignment shape leveling of beds of trenches to correct level & grade cutting joints holes i/c laying earth in 6" layers for construction of banks & banks dressing disposal of surplus earth within one chain as directed by Engineer Incharge providing fence guards lights flags temporary crossing for non vehicular traffic where ever required lift upto 5'ft. and lead upto one chain	%0 Cft	900	3,600.00	3,240.00
	21/1 p4	Filling watering and ramming earth under floor with surplus earth excavated from foundation llead upto one chain and lift upto 5 feet.	%0 Cft.	675	1,512.50	1,020.94

	II/P-2-b	Construction manhole or inspection chamber for the required diameter of circular sewer and 3'-6" (1067mm) depth with walls of B.B in cement mortar (1:3) 1/2" thick inside of walls and 1" thick over benching and channels i/c fixing C.I manhole cover with frame of clear opening 1-1/2"x1-1/2" of 1.75 cwt (88.9 kg) embedded in plain C.C 1:2:4 and fixing 1" dia MS steps 6" wide projecting 4" from the face of wall at 12" c/c duly painted etc. complete as per drawing and standard specification.				
	a	4" to 12" dia 2'x 2 x 3'-6"	Each	5	14,748.00	73,740.00
	b	4" to 12" dia 2'x 2 x 2'-6"	Each	4	13,310.20	53,240.80
					<b>Total</b>	<b>485,143.80</b>
<b>NON SCHEDULE ITEMS</b>						
1.8	NS-1	Supply and installation of Gas Geysers of 50 gallons capacity, including gate valves on inlet/outlet connections, check valve on inlet connection, pressure relief valves and all other accessories for complete installation, as per specifications.				
		35 gallon capacity	No.	4		
					<b>Total</b>	

**SHAHEED BENAZIR BHUTTO UNIVERSITY SHAHEED BENAZIRABAD**

**DEVELOPMENT OF SHAHEED BENAZIR BHUTTO UNIVERSITY SHAHEED BENAZIRABAD  
NAWABSHAH (SINDH)**

**ALLIED ENGINEERING CONSULTANTS (PVT) LTD. 19-A HALI ROAD GULBERG II, LAHORE**

**FLAT FOR STAFF (G-02-10)**

**NETWORK SOLUTION**

Item No.	Description of Items	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
	<b>Network Cable</b>				
1	Avaya SYSTIMAX Giga Speed Cat6 UTP Cable Roll	Rft	320		
	<b>P.V.C DUCTING</b>				
2	Type A (3/4 inch) Popular Plastic Pipe on floor	Rft	160		
	<b>Network Switches / FP / RackMount</b>				
3	Patch Cable 3M Cat 6 1 meter	Nos	4		
4	Cisco Wireless Switch with 4 Ports	Nos	2		
5	UTP Cable Termination Sockets (I/O) with box	Nos	4		
6	Patch Cable 3M Cat 6 3meter	Nos	4		
				<b>Sub Total</b>	
	<b>Equipment Installation Charges</b>				
1	Avaya SYSTIMAX Giga Speed Cat6 Cable laying from patch panel to I/O Point	Rft	300		
	<b>P.V.C DUCTING</b>				
2	Type A (3/4 inch) Popular Plastic Pipe on floor				
	<b>Network Switches / FP / RackMount</b>				
3	Cisco Wireless Switch with 4 Ports	Nos	4		
4	UTP Cable Termination Sockets (I/O) with box	Nos	4		
				<b>Sub Total</b>	
	<b>Total C/o to Summary of Cost:</b>				

<b>SHAHEED BENAZIR BHUTTOUNIVERSTY SHAHEED BENAZIRABAD</b>			
<b>DEVELOPMENT OF SHAHEED BENAZIR BHUTTO UNIVERSITY SHAHEED BENAZIRABAD NAWABSHAH (SINDH)</b>			
<b>ALLIED ENGINEERING CONSULTANTS (PVT) LTD. 19-A HALI ROAD GULBERG II, LAHORE</b>			
<b>FLAT FOR STAFF (G-02-11)</b>			
<b>SUMMARY OF COST</b>			
(As per Schedule of Rates 2012 Government of Sindh)			
<b>Sr.NO</b>	<b>DESCRIPTION</b>	<b>AMOUNT (RS)</b>	<b>AMOUNT (RS)</b>
<b>Schedule items</b>			
1	CIVIL WORKS	3,669,627	
2	PUBLIC HEALTH WORKS	485,144	
3	ELECTRICAL WORKS	503,036	
	<b>Sub total</b>	<b>4,657,807</b>	<b>4,657,807</b>
	<b>Premum/Rebate</b>		
		<b>sub -total</b>	
<b>Non-schedule items</b>			
5	CIVIL WORKS	-	
6	PUBLIC HEALTH WORKS	-	
7	ELECTRICAL WORKS	-	
8	HVAC	-	
9	NETWORK SOLUTIONS	-	
	<b>Sub total</b>		-
	<b>Total Cost:</b>		
	<b>Total Block of Flats = (02)</b>		

**SHAHEED BENAZIR BHUTTO UNIVERSITY SHAHEED BENAZIRABAD**

**DEVELOPMENT OF SHAHEED BENAZIR BHUTTO UNIVERSITY SHAHEED BENAZIRABAD  
NAWABSHAH (SINDH)**

**ALLIED ENGINEERING CONSULTANTS (PVT) LTD. 19-A HALI ROAD GULBERG II, LAHORE**

**FLAT FOR STAFF (G-02-11)**

**Civil Works**

(As per Schedule of Rates 2012 Government of Sindh)

S.No	Page No. SI.No.	Description	Qty.	Unit	Rate (Rs)	Amount (Rs.)
		<b>CHAPTER-1 EARTH WORK (EXCAVATION AND EMBANKMENT)</b>				
1	18/1 p4	Excavation in foundation of building bridges and other structures including dabelling dressing refilling around structure with excavated earth watering and ramming lead upto 5ft. (b) In ordinary soil	2918.65	%o Cft.	3176.25	9,270.36
2	21/1 p4	Filling watering and ramming earth under floor with surplus earth excavated from foundation lead upto one chain and lift upto 5 feet.	963.15	%o Cft.	1512.50	1,456.77
3	22/1	Filling watering and ramming earth under floor with new earth excavated from outside lead upto one chain and lift upto 5 feet.	4541.56	%o Cft.	3630.00	16,485.88
		<b>CHAPTER-4 CONCRETE</b>				
4	5(i)/4	Cement concrete plain including placing compacting, finishing and curing, complete (including screening and washing of stone aggregate without shuttering. <b>Ratio 1:4:8 in Foundation</b> (Using SR Cement)	320.34	%Cft	11288.75	36,162.81
5	4 b/4 p14	Cement concrete brick or stone ballast 1-1/2" to 2" gauge. <b>Ratio 1:4:8</b> (Using SR Cement)				
		Same as above but Under Floor	578.84	%Cft	9416.28	54,505.25
6	2/4	Dry rammed brick or stone ballast 1-1/2" to 2" gauge				
		First Floor	309.14	%Cft	3327.50	10,286.65
7	5(f)/4	Cement concrete plain including placing compacting, finishing and curing, complete (including screening and washing of stone aggregate without shuttering. <b>Ratio 1:2:4</b>	179.63	%Cft.	14429.25	25,919.47
	6d/4 p16	First Floor	173.05	%Cft.	15639.25	27,063.40
8	28b/4	Damp proof course with Cement sand and shingle concrete 1:2:4 including 2-coats of asphalted mixture. (b) <b>2" thick</b>	259.50	%Sft	3912.85	10,153.85
9	70/18	Vertical damp proof course of 3/4" thick cement plaster 1:2 with bitumen at 20 lbs per % sft	392.00	%Sft	2760.99	10,823.08



10	13/4 p 34	Two coats of bitumen laid hot using 34 Lbs for % sft Over roof and blinded with sand at one Cft Per % Sft (footing)				
		Same as above but on RCC Plinth Beam Top Horizontelly	0.00	%Sft	1887.40	-
11	6a/4	Reinforced cement concrete work including all labor and material expect the cost of steel reinforcement and its labor for bending and binding which will be paid separately. This rate also includes all kinds of form moulds: lifting shuttering curing rendering and finishing the exposed surface. <b>(including screening and washing of shingle)</b> <b>(a)</b> R.C. work in roof slab, beams columns rafts, lintels and other structural members laid in situ or precast laid in position completed in all respects. <b>(Use Sulphate Resisting Cement)</b>				
	(II)	Ratio (1:1.5:3)	1711.69	Per Cft	349.00	597,380.25
	6d/4	Add extra labor for RC concrete in First Floor	714.14	Per Cft	12.10	8,641.15
	(I)	Ratio (1:2:4)	766.26	Per Cft	337.00	258,227.94
	6d/4	Add extra labor for RC concrete in First Floor	616.91	Per Cft	12.10	7,464.63
		<b>CHAPTER-5 BRICK WORK</b>				
12	4(1)/5	Pacca brick work in foundation and plinth in: (d) Cement Sand Mortar 1:5	1701.28	%Cft.	12176.08	207,149.37
13	5(1)/5	Pacca brick work in <b>Ground Floor</b> in: Cement sand mortar 1:5	2176.88	%Cft.	12902.08	280,862.15
	6/5	add extra labor in item No 5 for brick work in <b>First Floor</b>	2176.88	%Cft.	13340.71	290,410.58
14	5(1)/5	Pacca brick work in <b>Ground Floor</b> in: (e) Cement sand mortar 1:4	984.19	%Cft.	13227.41	130,182.52
	6/5	add extra labor in item No 5 for brick work in <b>First Floor</b>	860.34	%Cft.	13666.04	117,574.88
15	29/5	Supplying and filling sand under floor and plugging in walls.	578.84	%Cft.	1141.25	6,606.02
		<b>CHAPTER-7 ROOFING</b>				
16	18/7	Khuras on roof 2'x2'x6"	5.00	Each	358.68	1,793.40
17	22/7	Cast iron rain water down pipe fixed in place excluding heads and shoes but including painting and clamp, etc. (a) 4" dia cast iron down pipe	100.00	Rft.	423.13	42,313.00
18	23/7	Rain water down pipe cast iron heads fixed in place including cost of clamp, hold fast and painting.	4.00	Each	873.29	3,493.16
19	24/7	Shoes, bends or offsets for cast iron rain water down pipe including fixing and painting.	4.00	Each	542.03	2,168.12

<b>CHAPTER-8 FLOORING</b>						
20	16/8 p41	Providing and laying 1" thick topping cement concrete (1:2:4) including surface finishing and dividing into panels: <b>c) 2" thick</b>	564.00	% Sft	3275.50	18,473.82
21	25/8	Laying floors of approved colored glazed tiles 1/4" thick laid in white cement and pigment on a bed of 3/4" thick cement mortar 1:2.	130.55	% Sft	27747.06	36,223.79
		First Floor	128.65	% Sft	27973.94	35,988.47
22	38/8	Glazed tile dado 1/4" thick laid in pigment over 1:2 cement sand mortar 3/4" thick including finishing.	497.00	% Sft	28299.30	140,647.52
		First Floor	497.00	% Sft	28526.18	141,775.11
23	53/8 p45	Mosaic tiles of white cement 12" x 12" x 1" of approved shade with khapcha laid flat in 1:2 white cement mortar over a bed of 3/4" thick grey cement mortar 1:2	1202.25	% Sft	7579.84	91,128.63
		Extra Labour For First Floor	1164.21	% Sft	7806.72	90,886.61
<b>CHAPTER-9: SURFACE RENDERING</b>						
24	10 (b) /9	Cement plaster 1:3 upto 12' height (ceiling) 1/2" Thick	1351.00	% Sft	2344.59	31,675.41
		First Floor	1423.79	% Sft	2484.59	35,375.22
		Mumty Floor		% Sft	2624.59	
25	12 (b) /9	Cement plaster 1:5 upto 12' height (Internal Walls) 1/2" Thick	2278.10	% Sft	2241.80	51,070.33
		First Floor	2320.98	% Sft	2381.80	55,281.10
		Mumty Floor		% Sft	2521.80	
	12 (a) /9	Cement plaster 1:5 upto 12' height (Internal Walls) 3/4" Thick	2278.10	% Sft	2678.50	61,018.77
		First Floor	2320.98	% Sft	2818.50	65,416.82
26	11 (c) /9	Cement plaster 1:4 upto 12' height (Ex. Walls) 3/4" Thick	528.00	% Sft	3015.00	15,919.20
		First Floor	1425.00	% Sft	3155.00	44,958.75
27	19/9 b	Cement pointing struck joint on walls Ratio (1:2)	3858.00	% Sft	1287.74	49,681.01
28	23/9	Priming Coat of Chalk Distemper	11972.94	% Sft	442.75	53,010.17
	24 b /9	Distemping Two coats	11972.94	% Sft	1043.90	124,985.47
29	38A/9	Preparing the surface and painting with weather coat i/c rubbing the surface with rubbing brick / sand paper, filling the voids with chalk / plaster of Paris and then painting with weather coat of approved make. (New surface) First Floor	1953.00	% Sft	1328.25	25,940.72
	38B/9	2nd Coat	1953.00	% Sft	619.85	12,105.67
	38A/9+ 42/9	Extra Labour for First Floor	1425.00	% Sft	228.09	3,250.28

		<b>CHAPTER-10 WOOD WORK</b>				
30	7 b/10	First class deodar wood wrought, joinery in doors and windows etc, fixed in position <b>excluding chowkats</b> hold fasts hinges, iron tower bolts, chocks cleats, handles and cords with hooks. etc <b>Deodar paneled or paneled and glazed or fully glazed.</b>				
		1-3/4" thick (7b/10 - 25b/10 =1273.76-370.83)		Per Sft	902.93	-
31	21/10	Providing and fixing approved quality mortice lock	37.00	Each	1786.13	66,086.81
32	19Aii/10	Providing and fixing sliding bolts to doors Iron Sliding Bolts 12" Long	37.00	Each	222.23	8,222.51
		<b>CHAPTER-11 PAINTING AND VARNISHING</b>				
33	5c/11	Preparing Surface and painting of Doors and windows any type (including Edges)				
	i	Priming Coat	868.00	% Sft	862.95	7,490.41
	ii	Each subsiquent coat of paint(2 coat)	868.00	% Sft	1253.46	10,880.03
		<b>CHAPTER-17 IRON WORK</b>				
34	30/17	Providing and fixing iron steel grill using solid square bars of size 1/2" 1/2" placed at 4" c/c and frame of flat iron patti of 3/4" x 3/4" i/c circle shape at 1' apart equivalent fitted with screws or pins i/c painting 3 coats with 1st coat of red oxide paint etc.	380.00	P.Sft	194.16	73,780.80
35	29/17 p 92	Providing and fixing GI frame / chowkhat of size 7" x 2" or 4-1/2" x 3" for door using 20 gauge GI sheet i/c welding hinges and fixing at site with necessary hold fasts, filling with cement sand slurry of ratio 1"6 and repairing the jambs. The cost also including all carriage. tools and plants used in making and fixing.	375.00	Rft.	228.90	85,837.50
		<b>CHAPTER-18 MISCELLANEOUS</b>				
36	92/18	Providing Anti termite treatment by spraying / sprinkling / spreading Heptachalar 0.5% Emulsion as an ever all pre-construction under the slab and along attache perches or entrances etc. complete as per directions of Engineer Incharge.	2817.19	Per Sft	9.74	27,439.43
37	13/7	Two coats of bitumen laid hot using 34 Lbs for % sft Over roof and blinded with sand at one Cft Per % Sft <b>(Raft footing and RCC Columns in foundation)</b>	2579.33	%Sft	1887.40	48,682.27
<b>Total C/O to Summary of Cost:-</b>						<b>3,669,627</b>

**NON SCHEDULE ITEMS**

**Civil Works**

SI.No.	Description	Qty.	Unit	Rate	Amount (Rs.)
NS-1	Providing and laying 3" to 2" thick PCC 1:2:4 screed in slope with no. 8 steel wire mesh reinforcement in panels not exceeding 1.5 SQM over Bituminous Torch applied membrane 3mm thick (Hy Grip) i/c prime coat of bitumen over slab. This rate also included the cost of PCC panels joints filling with Rope soaks in bitumen tightened & fixed with blended bitumen filling, PCC rain water drainage trench along the in side parapet as shown in drawing as per approval of the Engineer.	1680.00	Per Sft		
NS-2	Providing, cleaning, cutting, bending, placing & fixing in position etc., high tensile steel deformed bars confirming to ASTM-A615 Grade 60, made of Karachi Steel Mill Billet, including cost of spacer blocks, steel chairs and pins, binding wire and those over laps which are not shown on drawings, complete in all respects as shown on drawings and or as directed by the Engineer.	8672.81	kg		
NS-3	Providing and fixing in position MS railing 2'-9" high consisting of 3/4 # MS vertical bars grouted in RCC steps @ 7" apart and 1-1/2" dia MS pipe 10 swg hand railing mounted over bars i/c anti corrosive red oxide primer coat with 3 coats of enamel paint	39.00	Per Rft		
NS-4	Same as above but Corridor Railing	25.00	Per Rft		
NS-5	Providing and fixing 1/2" (40mm) thick solid flush door shutter It C.P. Finger plate and kick plate (Approved Factory Manufactured) with commercial ply (5 mm thick) on both sides double pressed and teak wood lipping 1/2"x3/8" (40mm x 10mm) around shutter including chromium plated fitting, iron hinges with aluminium kick plate 22 SWG on both sides & finger plate complete in all respect. c) 1/2" thick (40 mm)	434.00	Per Sft		
NS-6	Providing and fixing Formica of approved quality on door shutters as shown on drawings.	140.00	Per Sft		
NS-7	Providing and fixing panelled door of M.S. sheet, with forged door leaves of M.S. sheet 22 SWG fitted in hollow frame chowkat 3"x4 1/2" (75 mmx113 mm) made of M.S. sheet 18 SWG filled with plain cement concrete 1:3:6 etc. complete with all fittings and hammer painting, including carriage to site and fixing in position.	49.00	Per Sft		
NS-8	Providing and applying Weather resisting coat of Sika Guard 700-S transparent as per Sika instructions	3858.00	Per Sft		

	NS-9	providing and laying 3/4" thick full width / length factory polished Royal beige (china verona ) or equivalent approved marble on kitchen top entrance steps risers and treads plates lay in cement slurry over cement mortar (1:2) prepared bed and joint fill complete in all respects as per approval of the Engineer.	251.36	Per Sft		
	NS-10	Providing/fixing in position Aluminum frame glazed sliding windows consisting of heavy Deluxe anodized sections 1.6mm thick manufactured by <b>M/s Prime / Chawlla</b> and assembled by approved fabricators. This rate includes Aluminum sliding wire gauze shutter best quality imported fitting P.V.C gasket, 5mm thick brown or any approved tinted / plain <b>Ghanni glass</b> complete in all respects. This rate includes jamb (water tight)sealing with silicon.	380.00	Per Sft		
	NS-11	Providing / laying Kitchen counter cabinet with 7/8" thick China Verona marble top with half round top edge as per design / drawing comprising with 3/4" thick laminated board with deodar wood lipping 1/2" wide on all edges duly lacquer polish of approved shade complete in all respects as per approval of the Engineer.	47.50	Per Sft		
	NS-12	Providing / laying Kitchen wall mounted cabinet as per design / drawing comprising of 3/4" thick laminated board with deodar wood lipping 1/2"x3/4" on all edges duly lacquer polished of approved shade complete in all respects as per approval of the Engineer.	36.00	Per Sft		
	NS-13	Providing / laying Wardrobe as per design / drawing comprising of 3/4" thick laminated board with deodar wood lipping 1/2"x3/4" on all edges duly lacquer polished of approved shade complete in all respects as per approval of the Engineer.	440.00	Per Sft		
	NS-14	Providing and fixing 3/8" thick pre polished marble tiles skirting 4" high /dado of approved quality marble, over 1/2" thick base of cement plaster including filling , grouting and joints the tiles in with white cement slurry, i/c curing finishing and cleaning complete in all respects. 1) new works	114.68	Sft		
		First Floor	116.99	Sft		
			<b>Total C/O to Summary of Cost:</b>			

**SHAHEED BENAZIR BHUTTO UNIVERSITY SHAHEED BENAZIRABAD**

**DEVELOPMENT OF SHAHEED BENAZIR BHUTTO UNIVERSITY SHAHEED BENAZIRABAD NAWABSHAH (SINDH)**

**ALLIED ENGINEERING CONSULTANTS (PVT) LTD. 19-A HALI ROAD GULBERG II, LAHORE**

**FLATS FOR STAFF (G-02-10)**

**BOQ**

**ELECTRICAL WORKS**

**CSR - 2012 (Govt of Sindh)**

SR. NO	DESCRIPTION	QUANTITY	UNIT	UNIT RATE	AMOUNT	Ref: SOR
				(Rs)	(Rs)	Item/Page
★	<b>General</b>					
	All itmes of Electrical works described under title "Description" unless specifically indicated otherwise, shall be deemed to be read in terms of supply, storing, protecting, making, assembling installing, applying, laying, fixing, testing commissioning, clearing etc. of the same inclusive of but no limited to all materials, labour, tools, plants equipments, appliances etc. as required for the completion and maintenance of the Electrical work as per drawings specifications, and/or as directed by the Engineer Incharge.					
★	<b>NOTE</b>					
	The project Contractor shall carry out all Electrical works by approved (Licenced by Local Electrical Inspector) Electrical sub-Contractor.					
1	<b>WIRING FOR LIGHT OR FAN POINT</b>					
	Wiring for light or fan point with 3/.029 PVC insulated wire in 20mm (3/4") PVC conduits recessed in the wall or column as required.	139	Per Point	1,130.00	157,070.00	SH-II/P/124/15
2	<b>WIRING FOR PLUG POINT</b>					
	Wiring for plug point with 3/.029" PVC insulated wire in 20mm (3/4") PVC conduit recessed in the wall or column as required.	52	Per Point	985.00	51,220.00	SH-II/P/126/15
3	<b>WIRING FOR CALL BELL</b>					
	Wiring for call bell point with 3/.029" PVC insulated wire in 20mm(3/4") PVC conduit recessed in the wall or column as required.	3	Per Point	1,764.00	5,292.00	SII-II/P/128/15
4	<b>FOR LIGHT CIRCUIT WIRING</b>					
	Providing & laying ( MAIN or SUB MAIN) PVC insulated with size 3-7/.029 coper conductor in 3/4" dia PVC conduit recessed in the wall or column as required.	305	Per Mtr	294.00	89,670.00	SH-II/D/24/4

5	<b>FOR POWER CIRCUIT WIRING</b>					
	Providing & laying ( MAIN or SUB MAIN) PVC insulated with size 3-7/.036 coper conductor in 3/4" dia PVC conduit recessed in the wall or column as required.	180	Per Mtr	358.00	64,440.00	SH-II/D/25/4
6	<b>FOR POWER CIRCUIT WIRING</b>					
	Providing & laying ( MAIN or SUB MAIN) PVC insulated with size 3-7/.044 coper conductor in 3/4" dia PVC conduit recessed in the wall or column as required.	141	Per Mtr	468.00	65,988.00	SH-II/D/26/4
7	<b>FLUSH TYPE SWITCHES</b>					
	Providing & fixing one way SP 5amp flush type switches.	154	Per No	54.00	8,316.00	SH-XI/A/219/33
8	<b>FLUSH TYPE SOCKETS</b>					
9	Providing & fixing two pin 5amp plug & socket flush type switches.	32	Per No	83.00	2,656.00	SH-XI/A/225/33
10	Providing & fixing three pin 5amp plug & socket flush type switches.	32	Per No	151.00	4,832.00	SH-XI/A/226/33
11	Providing & fixing three pin 15/20 amp plug & socket flush type.	16	Per No	162.00	2,592.00	SH-XI/A/227/33
12	<b>FANS</b>					
	Providing & fixing Brass Ceiling fan 56" (good quality)	16	Per No	3,185.00	50,960.00	SH-XI/C/235/34
				<b>TOTAL</b>	<b>503,036</b>	

SHAHEED BENAZIR BHUTTO UNIVERSITY SHAHEED BENAZIRABAD					
DEVELOPMENT OF SHAHEED BENAZIR BHUTTO UNIVERSITY SHAHEED BENAZIRABAD NAWABSHAH (SINDH)					
ALLIED ENGINEERING CONSULTANTS (PVT) LTD. 19-A HALI ROAD GULBERG II, LAHORE					
FLATS FOR STAFF (G-02-10)					
BOQ					
(As Per Market Prevailing Rates)					
Sr. No.	DESCRIPTION	QUANTITY	UNIT	UNIT RATE (Rs.)	AMOUNT (Rs.)
☆	<b>GENERAL</b>				
	All items of Electrical works described under title "Description" unless specifically indicated other wise, shall be deemed to be read in terms of supply, storing, protecting, making, assembling, installing, applying, laying, fixing, testing commissioning, clearing etc. of the same inclusive of but not limited to all materials, labour, tools, plants equipments, appliances etc. as required for the completion and maintenance of the Electrical work as per drawings specifications, and/or as directed by the Engineer Incharge.				
NS-1	<b>LIGHT FITTINGS AND FIXTURES</b>				
	Supply, installation, fixing, wiring, connection, testing and commission of flauorescent fittings and fixtures, ceiling mounted or ceiling suspended or installed in the false ceiling or wall mounted, pole mounted, weather proof, adjustable or non-adjustable, complete with chokes, spring loaded rotary holders starter, power factor correction capacitors, antiradio interference starters, ballast with brackets and down rod, industrial shade, brass lamp holder proper gasketing necessary fixing accessories internal wiring, connection, earthing terminal etc. These are to be installed as and where shown on drawings or as required as per site conditions. Complete in all respects.				
NS-2	<b>LIGHTS</b>				
	These will consist of as described and equipped as above but specified as under These light units should be complete in all respects.				
1	Ceiling mounted Energy Saver light with 1x24Watts.	89	No.		
2	Energy Saver Bulb with 1x24Watts.	18	No.		
NS-3	<b>BACK BOXES FOR SWITCH BOARD WITH FACE PLATE.</b>				
	Supply and erection of M.S Sheet boxes of 16 SWG, 4" deep with 3/16" thick bakalite sheet top, for recessed wiring including making holes for Switches, Socket, & Fan dimmer etc.				
a	4"x4" Board	45	No.		
b	7"x4" Board	18	No.		
c	9"x4" Board	15	No.		



NS-4	<b>CABLES</b>				
a	<b>4-CORE CABLES</b>				
i	4-core 10mm (Sq)	60	Mtr		
i	4-core 25mm (Sq)	60	Mtr		
ii	4-core 70 mm (Sq)	35	Mtr		
b	<b>SINGLE CORE CABLES</b>				
	Single core, PVC insulated, copper conductor 660/1100 volts grade cables.				
j	10mm (Sq)	60	Mtr		
ii	16mm (Sq)	60	Mtr		
iii	25mm (Sq)	20	Mtr		
iv	35mm (Sq)	35	Mtr		
v	70mm (Sq)	32	Mtr		
NS-5	<b>DISTRIBUTION BOARD</b>				
	Supply, installation and connection of wires/cables, testing and commissioning of 500 volts, 50 Hz, 3 phase and neutral distribution boards, (DBs) concealed type, wall mounted to be installed as and concealed type, wall mounted to be installed as and where shown on drawings. made of M.S. Sheet 16 SWG with hinged door, handle. catcher earthing bar. neutral strip, internal wiring of Pakistan Cable/Pioneer Newage from MCCBs terminating on cable terminal blocks. One coat of anti-rust paint with further two coats of enameled paint of approved colour. all necessary materials complete in all respects and manufactured by any one of the approved manufactures and conforming to single line diagram. D.B shall be equipped with the following equipment as shown on drawings				
1	<b>DBL-G</b> (07-WAYS Distribution)	1	Job		
2	<b>DBL-F</b> (07-WAYS Distribution)	1	Job		
3	<b>DBP-G</b> (09-WAYS Distribution)	1	Job		
4	<b>DBP-F</b> (09-WAYS Distribution)	1	Job		
NS-6	<b>L.T. SWITCHEAR SYSTEM</b>				

	Supply, installation, testing and commissioning of Main Panel Board MPB, installed as and where shown on drawing, made of M.S sheet <b>14 SWG</b> metal clad totally enclosed, indoor, floor mounting, cubicle with front access, in free standing design including all auxiliaries, internal wiring, circuit labels, earthing bar, suitable for system voltage 220/500 volts, A.C. 50 Hertz, 3 phase, neutral and earth air insulated bus bars of hard drawn 99% electrolytic copper, duly painted with antitrust paint and 2 coats of stove enameled paint of approved colour, equipped as under and manufactured by any one of the approved manufacturers, and complete in all respects, including cost of all necessary accessories and conforming to the consultant single line diagram 'The following material and auxiliary equipments shall be provided.				
	a) <u>BUS BARS SYSTEM</u>				
	3-Phase, neutral and earth air insulated bus-bars of hard drawn 99% electrolytic copper conductor requisite rating 500 volts, A.C. 500 volts, A.C. 50 Hertz, duly painted with antitrust paint and 2 coats of stove enameled paint of approved colour.				
	b) <u>PROTECTION SYSTEM</u> (THERMAL & MAGNETIC RELAY).				
	Under voltage and over load short circuit protection with adjustable thermal and magnetic release shall be provided.				
	c) <u>NEON PHASE INDICATIONS</u> Marayusa/Fuji				
	Main Panel Board, MPB, should have neon phase indications in Red, Yellow and Blue colours on respective phases.				
	d) <u>CURRENT TRANSFORMERS, C.Ts.</u>				
	3 Nos. Air cooled ring type current transformers, C.Ts with primary to secondary requisite ratio on incoming and one C.T. on each outgoing circuit for protection and metering purposes.				
	e) <u>AMMETER</u>				
	Ampermeter scale 0-400 AMPS range A.C 50 CPS with dial face of 96x96mm shall be provided on incoming & outgoing MCCB/ACB along with selector switch on incoming. (96x96)				
	f) <u>VOLTMETER</u>				
	Voltmeter scale 0-500 volts range, A.C, 50 CPS with dial face of 96x96mm shall be provided on incoming MCCB/ ACB along with the selector switch. (96x96)				
	g) <u>SAFETY FUSES</u>				
	Safety fuses before the electrical measuring indicating quantity meters (Voltmeter, ammeter etc.) must be provided.				
	h) <u>SELECTOR SWITCH</u> Breter				
	Selector switch will be provided to select the phase with each ammeter and voltmeter.				
1	<b>MAIN PANEL BOARD NORMAL</b>	1	Job		
2	<b>MAIN PANEL EMERGENCY</b>	1	Job		
NS-7	<b>TELEPHONE &amp; INTERCOM OUTLET POINTS &amp; WIRING.</b>				

	Supply, installation, fixing, wiring, testing and commissioning of telephone & intercom outlet points wired with two pair / required requisite pair telecommunication cable (approved colours) as per PTC Formerly T&T Department) standards and specifications run in ¾" (20mm) dia PVC heavy guage conduits recessed in walls, slabs, columns, floor or as per required as per site conditions including the cost of PVC conduit accessories, junction boxes, pull boxes, steel pull wire etc. M.S. sheet box of 16 SWG requisite size for flush mounting to house this and cover of approved type, material, quality and make with the two coats of enamelled paint to the back box . It includes telephone rosette with jacks etc. Complete in all respects.	5	Job		
<b>NS-8</b>	<b>COMPUETR WIRING &amp; COMPUTER OUTLET</b>				
	Wiring for each data/computer point included cost of 1 no. 4 pair CAT- 6 (UTP) cable tinned copper conductor PVC insulated PVC sheathed to support data rates upto1GBits/s. or more than 1 GBits/s with connections at both ends, designation labels. Cable shall be installed from main server to patch panel for interconnecting of active components (switch hubs) as per route shown on drawings in prelaid 1" dia. PVC conduit heavy duty make Beta or in cable trunking , recessed in slabs, floor, walls, columns or above false ceiling or as required as per site conditions including cost of computer Socket RJ-45 all necessary materials and accessories. complete in all respects.	4	No		
<b>NS-9</b>	<b>CABLE TRENCH</b>				
	Excavation for cable trenches in any type of soil except rock to required depth including dagbelling, dressing, back filling around structure with excavated earth, watering ramming and disposing unsuitable and surplus excavated material to a site indicated by Engineer and dewatering where required, shoring, timbering, trimming etc. complete in all respects and as per drawings and standard specification and of the following sizes.				
	18" wide x 24" deep	38	Mtr		
<b>NS-10</b>	<b>CABLE CONDUITS (PVC / RCC / GI / MS PIPES)</b>				
	Supplying, installing, fixing, laying and erecting of cable conduits/pipes for wiring recessed in wall, ceiling, columns, slab, floor ground as and where shown on the drawing or as required as per site conditions etc. including inspection boxes, pull boxes, steel pull wire, hooks, tees, bends, cutting jharries, chases and repairing surfaces etc. complete with all specials. It includes rates for the pipes also. These will consist of as described above but specified as under:				
	1" diameter PVC pipe	395	Mtr		
	2" diameter PVC pipe	135	Mtr		
<b>NS-11</b>	<b>CABLE MANHOLES (CABLE CATCH PITS) CABLE INSPECTION PITS</b>				

SHAHEED BENAZIR BHUTTO UNIVERSITY SHAHEED BENAZIRABAD						
DEVELOPMENT OF SHAHEED BENAZIR BHUTTO UNIVERSITY SHAHEED BENAZIRABAD NAWABSHAH (SINDH)						
ALLIED ENGINEERING CONSULTANTS (PVT) LTD. 19-A HALI ROAD GULBERG II, LAHORE						
MASJID						
BOQ						
PLUMBING WORK						
Sr.No	Item	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
<b>PLUMBING FIXTURES AND FITTINGS</b>						
1	1. p1 chp-1	Providing and fixing squatting type white glazed earthen ware pan with including the cost of flushing cistern with internal fitting and flush Pipe with bend & making requisite number of holes in walls plinth & floor for pipe connections & making good in cement concrete 1:2:4				
	A.	(I) W.C pan of not less than 23" clear opening between flushing rims and 3 gallons flushing tank with 4" dia C.I. trap.				
		(ii) with 4" dia white glazed earthen ware trap & plastic thimble.	Each	8	5,088.20	40,706
2	5-ii, p2 chp-1	Providing and fixing European type white glazed earthenware wash down W.C. pan complete with and i/c the cost of white plastic seat (best quality approved) and lid with hinges and buffers 3 gallons White glazed earthenware low level flushing cistern with built-in siphon fittings./ 1-1/2" dia white porcelain enameled flush bend 3/4" dia and making requisite no of holes in walls plinth and floor for pipe connection and making good in c.c. 1:2:4. <b>(Foreign Quality)</b>	No.	3	11,477.40	34,432
	10, p3 chp-1	Providing & fixing 24" x 18" lavatory basin in white glazed earthen ware complete with & i/c the cost of W.I or C.I cantilever brackets 6 inches built into walls, painted white in two coats after a primary coat of red lead paint a pair of 1/2" dia rubber plug & chrome plated brass chain 1-1/4" dia, malleable iron or brass unions and making requisite number of holes in walls, plinth & floor for Pipe connections and making good in cement concrete 1: 2: 4 (Foreign or Equivalent).	Each	12	4,928.00	59,136
	11-ii, p3 chp 1	Add extra labor for providing & fixing of earthen ware pedestal white or colored glazed (Foreign or Equivalent..)	Each	7	2,533.47	17,734

	Construction of brick manhole 9" thick walls, requisite internal size with cement mortar internal plaster 1:4 RCC 4" thick manhole cover with lifting hooks. including cost of sealing compound to be used to seal the RCC pipes ends for all incoming and outgoing L.T. cables, 2 coats of hot bitumen on the external surface complete in all respects with all necessary materials				
	2' x 2' x 2'	3	Job		
<b>NS-12</b>	<b>FAN CLAMPS/BOX</b>				
	Providing and fixing mild steel bar fan Box clamps 15.8 mm (5/8") dia suitable for R.C.C. roof	16	Each		
<b>NS-13</b>	<b>EXHAUST FANS.</b>				
	Supply, installation, fixing, wiring testing and commissioning of wall fitted exhaust fans of required requisite sweep including cost of blades, plastic frame, iron frame, louvers, capacitor, nuts, bolts, all necessary fixing accessories, complete in all respects. The item will be approved quality and make. These will consist of as described and equipped above but specified as under.				
	18" Sweep	16	Each		
<b>NS-14</b>	<b>ERECTION OF EXHAUST FANS LOVURE</b>				
	P/F butterfly shutter for 457mm (18")sweep exhaust fan complete as required	16	Each		
<b>NS-15</b>	<b>EARTHING SET</b>				
	P/F earthing set with 2"x 2"x 1/2" copper plate burried in ground at a depth of 12 or less if water comes out from the ground level with salt and chorcoal, etc ,in/c. making the pit 12" deep by excavation of all type of soil. Earth plate to be connected with No. 8 S.W.G. bare copper wire run in 1/2" G.L. pipe straght from the earth plate upto the metallic Electrical assesary i/e providing necessary Tee.	3	Each		
<b>NS-16</b>	<b>EARTH CONDUCTOR</b>				
	providing & fixing hard drawn bare copper wire no.10 S.W.G as earth continuity with any given mains or sub-mains in all system of wiring including metallic Electrical accessories.	15	Rft		
	Providing and fixing 1" diameter 3ft long lighting copper rod with five spikes and balls on its head as required.	2	Job		
	Providing and fixing 1-1/2" x 1/3" Thick copper strip with suitable saddle at 12" intervals complete as required.	2	Rft		
<b>TOTAL</b>					

### HVAC SYSTEM

NS-17	Supply & installation of air cooled decorative wall mounted reversible split type a/c including thermostat, refrigerant charging, electrical works hanging & commissioning as specified & scheduled.				
	1.5 TON SPLIT A/C (Optional)		Each		
NS-18	Supply & Installation of Refrigerant Copper Piping with Conduits Insulation as Specified & Shown On Drawings for Following A/C				
	1.5 TON SPLIT A/C	210	Rft		
II/F-1, vol IV, Part VI, p25	Supply and installation of PPRC pipes and fittings for (AC) condensate drain drain complete in all respect for condensate drain ( PN10 and all fittings PN25 )				
	DIA 1-1/4 "	210	Rft		
<b>TOTAL</b>					

SHAHEED BENAZIR BHUTTO UNIVERSITY SHAHEED BENAZIRABAD						
DEVELOPMENT OF SHAHEED BENAZIR BHUTTO UNIVERSITY SHAHEED BENAZIRABAD NAWABSHAH (SINDH)						
ALLIED ENGINEERING CONSULTANTS (PVT) LTD. 19-A HALI ROAD GULBERG II, LAHORE						
FLAT FOR STAFF (G 02-10)						
BOQ						
PLUMBING WORK						
Sr.No	Item	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
		<b>PLUMBING FIXTURES AND FITTINGS</b>				
1	1. p1 chp-1	Providing and fixing squatting type white glazed earthen ware pan with including the cost of flushing cistern with internal fitting and flush Pipe with bend & making requisite number of holes in walls plinth & floor for pipe connections & making good in cement concrete 1:2:4				
	A.	(i) W.C pan of not less than 23" clear opening between flushing rims and 3 gallons flushing tank with 4" dia C.I. trap.				
		(ii) with 4" dia white glazed earthen ware trap & plastic thimble.	Each	4	5,088.20	20,352.80
	10. p3 chp-1	Providing & fixing 24" x 18" lavatory basin in white glazed earthen ware complete with & 1/c the cost of W.I or C.I cantilever brackets 6 inches built into walls, painted white in two coats after a primary coat of red lead paint a pair of 1/2" dia rubber plug & chrome plated brass chain 1-1/4" dia, malleable iron or brass unions and making requisite number of holes in walls, plinth & floor for Pipe connections and making good in cement concrete 1: 2: 4 (Foreign or Equivalent).	Each	4	4,928.00	19,712.00
	12. p4 chp-1	Same as above but size 22" x 16"	Each		4,694.80	-
	11-ii. p3 chp 1	Add extra labor for providing & fixing of earthen ware pedestal white or colored glazed (Foreign or Equivalent..)	Each	4	2,533.47	10,133.88
5	19-ii. p6 chp 1	Providing & fixing steel sinks stainless local make complete with cast iron or wrought iron brackets 6 inches built in wall, 1 1/2" c.p bubbler plug chrome plated brass chain. 1 1/2" c.p brass waste. with 1 1/2" P.V.C waste pipe & making requisite number of holes in wall & plinth & floor pipe connection & making good in cement concrete 1:2:4				
		(a) Steel sink stainless sized 40"x20" local make (Standard Pattern)	Each	4	5,712.30	22,849.20

	20-ii, p6 chp 1	Providing & fixing 6" x 2" or 6" x 3" C.I floor trap of the approved self cleaning design with a C.I screwed down grating with or without a vent arm complete with & I/c making requisite number of holes in walls, plinth & floor for Pipe connections & making good cement concrete 1:2:4.	Each	12	2,024.43	24,293.16
6	1-iii, p7 chp 2	Providing and fixing chrome plated brass towel rail Complete with brackets fixing on wooden cleats with 1" long C.P brass screws.				-
		(iii) Towel rail 24" long (b) 3/4" dia round or square (Superior Quality)	Each	4	1,082.95	4,331.80
8	3- p7 chp 2	Providing and fixing 24"x18" beveled edge mirror of Belgium glass complete with 1/8" thick hard board and CP screws fixed to wooden cleats. i/c 5" wide glass shelf with CP brass brackets				-
		(b) Superior Quality	Each	4	2,451.00	9,804.00
9	5- p8 chp 2	Providing and fixing soap tray earthen ware with CP screws etc. complete	Each	4	497.20	1,988.80
	6- p8 chp 2	Providing and fixing soap tray plastic made of superior quality and design with fine finishing and CP screws etc. complete	Each	4	169.40	677.60
	2- p16 chp 6	Supplying & fixing in position C.P Bib cock. (b) 1/2" dia C.P bib cock ,Standard pattern.	Each	4	150.92	603.68
10	11- p18 chp 6	Concealed C.P fitting of superior quality for tiles bath rooms.				-
11	12a- p18 chp 6	S/Fixing concealed tee-stop cock of superior quality with CP head 1/2" dia	Each	12	843.92	10,127.04
12	14a- p19 chp 6	S/Fixing wash hand basin mixer of superior quality with CP head 1/2" dia	Each	4	2,882.00	11,528.00
13	15- p19 chp 6	S/Fixing Jet shower with rod of superior quality single CP head 1/2" dia	Each	4	1,142.24	4,568.96
16	17- p19 chp 6	Supplying & fixing sink mixture cock of superior quality with c.p head etc complete.	Each	4	2,745.60	10,982.40
	3- p121 chp 8	Supplying & fixing fiber glass tank of approved quality and design and wall thickness as specified i/c cost of nuts, bolts and fixing in platform of cement concrete 1: 3: 6 and making connections for in -let .& out-let & over flow pipes etc. complete.				
		(c) 500 gallons wall thickness 4.5 mm	Each	2	37,505.42	75,010.84
23	1- p24 chp 10	Providing & fixing 6" x 4" C.C gully trap with 4" outlet complete with 4" thick 1: 2: 4 C.C. for bed & 1/2" thick cement plaster (1:3) to the karb, C.I grating 6" x 6" & C.I cover and frame 12" x 12" (inside) etc. complete.				-
		<b>C.C Gully Trap 6" x 6" x 4"</b>				-
		(i) With C.I Cover & frame.	Each	6	1,358.17	8,149.02
						-
9	6- p16. chp 6	Providing and fixing ball valve (with unsoldered copper Ball) made to BSS 1212				-
	i	1/2" dia	Each		235.84	-
	ii	3/4" dia	Each	8	290.84	2,326.72



	iii	1" dia	Each	4	318.34	1,273.36
	iv	1 1/2" dia	Each	4	573.70	2,294.80
	v	2" dia	Each		738.76	-
1.5	II/F-1, vol IV, Part VI, p25	Provide & laying and fixing in trenches i/c fitting, jointing & testing etc. complete in all respects the High Density Polyethylene (PE) pipes (HDPE-100) for W/S confirming ISO 4427 / DIN 8074/8075 B.S 3580 & PSI 3051				
		PN10 and all fittings PN25				
		a) 25mm	Rft	326	29.00	9,454.00
		b) 32mm	Rft	68	36.00	2,448.00
		c) 40mm	Rft		47.00	-
1.6	II/F-1, vol IV, Part VI, p25	Provide & laying and fixing in trenches i/c fitting, jointing & testing etc. complete in all respects the High Density Polyethylene (PE) pipes (HDPE-100) for W/S confirming ISO 4427 / DIN 8074/8075 B.S 3580 & PSI 3051				-
		PN16 and all fittings PN25 (External)				-
		a) 25mm	Rft		34.00	-
		b) 32mm	Rft	192.00	44.00	8,448.00
		c) 40mm	Rft	178.00	62.00	11,036.00
		d) 50mm	Rft		92.00	-
		e) 63mm	Rft		134.00	-
1.5	II/E-4, vol IV, Part VI, p23	Provide & laying uPVC pipes of Class "B" fixing in trenches i/c cutting, fitting and jointing with solvent cement i/c testing with water to head of 61meter or 200 ft.				-
		a) 80mm (3" dia)	Rft	164.00	90.00	14,760.00
		b) 100mm (4" dia)	Rft	148.00	136.00	20,128.00
		d) 150mm (6" dia)	Rft	180.00	259.00	46,620.00
		e)200mm (8" dia)	Rft		397.00	-
	1-chp-iii vol IV, Part VI, p60	Excavation for pipe line in trenches and pits in soft soil i/c clay or mud trimming and dressing sides to true alignment shape leveling of beds of trenches to correct level & grade cutting joints holes i/c laying earth in 6" layers for construction of banks & banks dressing disposal of surplus earth within one chain as directed by Engineer Incharge providing fence guards lights flags temporary crossing for non vehicular traffic where ever required lift upto 5'ft. and lead upto one chain	%0 Cft	900	3,600.00	3,240.00
	21/1 p4	Filling watering and ramming earth under floor with surplus earth excavated from foundation lead upto one chain and lift upto 5 feet.	%0 Cft.	675	1,512.50	1,020.94

	II/P-2-b	Construction manhole or inspection chamber for the required diameter of circular sewer and 3'-6" (1067mm) depth with walls of B.B in cement mortar (1:3) 1/2" thick inside of walls and 1" thick over benching and channels i/c fixing C.I manhole cover with frame of clear opening 1-1/2"x1-1/2" of 1.75 cwt (88.9 kg) embedded in plain C.C 1:2:4 and fixing 1" dia MS steps 6" wide projecting 4" from the face of wall at 12" c/c duly painted etc. complete as per drawing and standard specification.				
	a	4" to 12" dia 2'x 2 x 3'-6"	Each	5	14,748.00	73,740.00
	b	4" to 12" dia 2'x 2 x 2'-6"	Each	4	13,310.20	53,240.80
					<b>Total</b>	<b>485,143.80</b>
<b>NON SCHEDULE ITEMS</b>						
1.8	NS-1	Supply and installation of Gas Geysers of 50 gallons capacity, including gate valves on inlet/outlet connections, check valve on inlet connection, pressure relief valves and all other accessories for complete installation. as per specifications.				
		35 gallon capacity	No.	4		
					<b>Total</b>	

**SHAHEED BENAZIR BHUTTO UNIVERSITY SHAHEED BENAZIRABAD**

**DEVELOPMENT OF SHAHEED BENAZIR BHUTTO UNIVERSITY SHAHEED BENAZIRABAD  
NAWABSHAH (SINDH)**

**ALLIED ENGINEERING CONSULTANTS (PVT) LTD. 19-A HALI ROAD GULBERG II, LAHORE**

**FLAT FOR STAFF (G-02-10)**

**NETWORK SOLUTION**

Item No.	Description of Items	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
	<b>Network Cable</b>				
1	Avaya SYSTIMAX Giga Speed Cat6 UTP Cable Roll	Rft	320		
	<b>P.V.C DUCTING</b>				
2	Type A (3/4 inch) Popular Plastic Pipe on floor	Rft	160		
	<b>Network Switches / FP / RackMount</b>				
3	Patch Cable 3M Cat 6 1 meter	Nos	4		
4	Cisco Wireless Switch with 4 Ports	Nos	2		
5	UTP Cable Termination Sockets (I/O) with box	Nos	4		
6	Patch Cable 3M Cat 6 3meter	Nos	4		
				<b>Sub Total</b>	
	<b>Equipment Installation Charges</b>				
1	Avaya SYSTIMAX Giga Speed Cat6 Cable laying from patch panel to I/O Point	Rft	300		
	<b>P.V.C DUCTING</b>				
2	Type A (3/4 inch) Popular Plastic Pipe on floor				
	<b>Network Switches / FP / RackMount</b>				
3	Cisco Wireless Switch with 4 Ports	Nos	4		
4	UTP Cable Termination Sockets (I/O) with box	Nos	4		
				<b>Sub Total</b>	
	<b>Total C/o to Summary of Cost:</b>				

Contractor

Procuring Agency

**SHAHEED BENAZIR BHUTTO UNIVERSTY SHAHEED BENAZIRABAD**

**DEVELOPMENT OF SHAHEED BENAZIR BHUTTO UNIVERSITY SHAHEED BENAZIRABAD  
NAWABSHAH (SINDH)**

**ALLIED ENGINEERING CONSULTANTS (PVT) LTD. 19-A HALI ROAD GULBERG II, LAHORE**

**OVER HEAD WATER TANK (50,000 Gls)**

**SUMMARY OF COST**

(As per Schedule of Rates 2012 Government of Sindh)

Sr.NO	DESCRIPTION	AMOUNT (RS)	AMOUNT (RS)
<b>Schedule items</b>			
1	CIVIL WORKS	3,685,304	
	Premium/Rebate _____		
	<b>Sub total</b>		
<b>Non-Schedule items</b>			
1	CIVIL WORKS	-	
2	PUBLIC HEALTH WORKS	-	
3	ELECTRICAL WORKS		
	<b>Sub total</b>	-	-
	<b>Total C/O to Grand Summary of Cost:</b>		-

Note:- 1) Premium Rates to be Inclusive of Cartage Charges etc.

2)

Escalation of labour and Material, Cartage and lead shall not be allowed

Signature of Bidder

Seal

Adress \_\_\_\_\_

\_\_\_\_\_

Fax \_\_\_\_\_

Ph. \_\_\_\_\_

SHAHEED BENAZIR BHUTTO UNIVERSITY SHAHEED BENAZIRABAD						
DEVELOPMENT OF SHAHEED BENAZIR BHUTTO UNIVERSITY SHAHEED BENAZIRABAD NAWABSHAH (SINDH)						
ALLIED ENGINEERING CONSULTANTS (PVT) LTD. 19-A HALI ROAD GULBERG II, LAHORE						
EXTERNAL DEVELOPMENT WORKS						
OVER HEAD WATER TANK (50,000 Gls)						
ENGINEER'S COST ESTIMATE						
Civil Works						
(As per Schedule of Rates 2012 Government of Sindh)						
Sr.No	Page No.	Description	Qty.	Unit	Rate (Rs)	Amount (Rs.)
		<b>CHAPTER-1 EARTH WORK (EXCAVATION AND EMBANKMENT)</b>				
1	18/1	Excavation in foundation of building bridges and other structures including dabelling dressing refilling around structure with excavated earth watering and ramming lead upto 5ft. (b) In ordinary soil	8979.34	%o Cft.	3,176.25	28,520.63
2	21/1 p4	Filling watering and ramming earth under floor with surplus earth excavated from foundation llead upto one chain and lift upto 5 feet.	8979.34	%o Cft.	1,512.50	13,581.25
3	22/1	Filling watering and ramming earth under floor with new earth excavated from outside lead upto one chain and lift upto 5 feet	7695.95	%o Cft.	3,630.00	27,936.31
		<b>CHAPTER-4 CONCRETE</b>				
4	5(i)/4	Cement concrete plain including placing compacting, finishing and curing, complete (including screening and washing of stone aggregate without shuttering Ratio 1:4:8 in Foundation (Using SR Cement)	1235.26	%Cft	11,288.75	139,445.34
11	6a/4	Reinforced cement concrete work including all labor and material expect the cost of steel reinforcement and its labor for bending and binding which will be paid separately. This rate also includes all kinds of form moulds: lifting shuttering curing rendering and finishing the exposed surface (including screening and washing of shingle) (a) R.C. work in roof slab, beams columns rafts, lintels and other structural members laid in situ or precast laid in position completed in all respects.(Use Sulphate Resisting Cement)				
	(I)	Ratio (1:2:4)				-
		RCC floor topping and retaining wall	484.00	Per Cft	337.00	163,108.00
	(II)	Ratio (1:1.5:3)				
	6d/4 ai,ii	All structure other then footing, floor and R.wall upto 20' height	1183.56	Cft	349.00	413,063.31
	6d/4 b	RC concrete 20' to 40' height	628.75	Cft	361.10	227,041.63
	6d/4 c	RC concrete 40' to 50' height	403.45	Cft	373.20	150,567.54
	6d/4 d	RC concrete 50' to 60' height	765.94	Cft	385.30	295,115.72
	6d/4 e	RC concrete 60' to 80' height	2828.34	Cft	403.45	1,141,092.32
		<b>CHAPTER-5 BRICK WORK</b>				
12	4(i)/5	Pacca brick work in foundation and plinth in: (d) Cement Sand Mortar 1:5		%Cft.	12,176.08	-
13	5(i)/5	Pacca brick work in Ground Floor in: Cement sand mortar 1:5	1232.63	%Cft.	12,902.08	159,034.26
15	29/5	Supplying and filling sand under floor and plugging in walls.		%Cft.	1,141.25	-
		<b>CHAPTER-9 SURFACE RENDERING</b>				
25	110(b)/9	Cement plaster 1:3 upto 12' height (Ex. Walls) 1/2" Thick upto 2' height	2117.00	% Sft	2,344.59	49,634.97
		RC concrete 20' to 40' height (2 stories)	1458.50	% Sft	2,497.96	36,432.71
		RC concrete 40' to 50' height (2 stories)	1058.50	% Sft	2,722.11	28,813.53

1		RC concrete 50' to 60' height (2 stories)	829.50	% Sft	2,946.26	24,439.25
		RC concrete 60' to 80' height (2 stories)	7610.39	% Sft	3,170.42	241,280.79
27	38A/9	Preparing the surface and painting with weather coat i/c rubbing the surface with rubbing brick / sand paper, filling the voids with chalk / plaster of Paris and then painting with weather coat of approved make. (New surface) (Prime coat + 2 coats)	13073.89	% Sft	2,567.95	335,730.83
	38A/9+ 42/9	RC concrete 20' to 40' height (2 stories)	1458.50	% Sft	137.44	2,004.59
	38A/9+ 42/9	RC concrete 40' to 50' height (2 stories)	1058.50	% Sft	338.32	3,581.10
	38A/9+ 42/9	RC concrete 50' to 60' height (2 stories)	829.50	% Sft	539.19	4,472.62
	38A/9+ 42/9	RC concrete 60' to 80' height (2 stories)	7610.39	% Sft	740.07	56,322.29
		<b>CHAPTER-18 MISCELLANEOUS</b>				
33	92/18	Providing Anti termite treatment by spraying / sprinkling / spreading Heptachlor 0.5% Emulsion as an ever all pre-construction under the slab and along attache perches or entrances etc. complete as per directions of Engineer Incharge.	3258.59	Per Sft	9.74	31,738.64
34	13/7	Two coats of bitumen laid hot using 34 lbs for % sft Over roof and blinded with sand at one Cft Per % Sft (Raft footing and RCC Columns in foundation)	5952.42	%Sft	1,887.30	112,346.01
		<b>Total C/O to Summary of Cost:-</b>				<b>3,685,304</b>

NON SCHEDULE ITEMS					
Civil Works					
Sr.No.	Description	Qty.	Unit	Rate	Amount (Rs.)
	<b>CIVIL WORKS</b>				
NS-1	Providing, cleaning, cutting, bending, placing & fixing in position etc., high tensile steel deformed bars conforming to ASTM-A615 Grade 60, made of Karachi Steel Mill Billet, including cost of spacer blocks, steel chairs and pins, binding wire and those over laps which are not shown on drawings, complete in all respects as shown on drawings and or as directed by the Engineer.	31470.18	kg		-
NS-2	Mosaic topping of marble chips in grey cement in 1:2 cement ratio(i/e Sika lite water proofing chemical @ 1 kg / Cement bag) and using zero no marble chips on walls and bed of water tank, finishing smooth without polishing complete in all respects.				
	(a) using grey cement	3158.54	Sft		-
NS-3	Providing & mixing admixtures (Sikament 520 pk) for increasing the strenght of concrete to achieve 3000 psi for ratio 1:2:4 and 4000 Psi for ratio 1:1.5:3 using admixture 1/2 litter or as per specification per cement bag. Water ratio must be contain less then 16-17 litter per cement bag.	704.93	Litter		-
NS-4	Providing and fixing in position MS. Ladder 2' wide of MS. angle iron 2" x 2" x 1/4" and 2" x 2" x 3/16" steps 1' apart painting 3 coats with anticorrosive paint etc. i.e hold fast grouting on top complete in all respects.	22.00	Rft		-
NS-5	Supplying and Fixing PVC flexible bubble type Water stopper 8" wide durra or approved equivalent make for concrete construction joint in tank or any where any height i.e the cost of welding of over laps. Complete in all respects	298.38	Rft		-
NS-6	RCC pre cast steps in staircase 2'-6" long 10" wide and 3" thick in approved shape and 8" embedded in RCC wall complete in all respects.	160.00	No		-
NS-7	Providing and fixing in position MS railing 2'-9" high consisting of 5/8" # MS vertical bars grouted in RCC steps @ 7" apart and 1-1/2" dia MS pipe 10 swg hand railing mounted over bars i/e anti corrosive red oxide primer coat with 3 coats of enamel paint complete in all respects with all accessories at any height.	273.60	Rft		-
NS-8	Supply and Fixing MS frame and 1/4" thick MS palte openable manhole cover fix on ducts complete in all respects				
	3' x 2'-9" size	1	No		-
	3' x 2' size	1	No		-
NS-9	Providing Special shuttering(extra rate other then BOQ item rate) for RCC W.tank, irragular shape beams, louvers and columns etc. at any height and any where excluding the cost of concrete paid in schedule items respectively. (Client and Site Engineer will decide the scope of work)	6719.48	Sft		-
NS-10	Providing Special labor of plastering (extra rate) for curved W. tank surface and special irragular shape and size excluding the cost of plaster paid in schedule items respectively. (Client and Site Engineer will decide the scope of work)	2,899.89	Sft		-
NS-11	Providing and Laying Structural Pad of Grander Fill Material Mixture of 35% Sand and 65% Gravel Compacted to 50% of Modified "ASSFTO" Density i/e Carriage of all Materials at Site Complete in all respect as Approved by the Engineer incharge.	1996.30	Cft		-
<b>Total C/O to Summary of Cost:</b>					-

**PEOPLES UNIVERSITY OF MEDICAL AND HEALTH SCIENCES FOR WOMEN AT SHAHEED  
BENAZIRABAD(SINDH)**

**OVER HEAD WATER TANK**

**Electrical Works**

**BILL OF QUANTITIES**

(As Per Market Prevailing Rates)

Sr.No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE	AMOUNT
				(Rs.)	(Rs.)
IE-01	<b>CABLES.</b>				
	Supply, installation, wiring, fixing, laying, connecting, jointing, testing and commissioning of single core/3.5 core/4 core, PVC insulated, PVC sheathed, armoured / unarmoured, copper conductor 250/440 volts or 600/1000 volts grade cables. In pre-laid PVC pipes M.S. conduits/G.I pipe/wooden strip batten/wooden casing and capping/ RCC pipes, trenches/on cable clamps etc as and where shown on Drawings or as required as per site conditions. It includes the rate of the cables also.				
	<b>A: MULTI-CORE CABLES</b>				
	i) 2-core 16mm (Sq)	Meter	1		
	ii) 4-core 16mm (Sq)	Meter	15		
	iii) 4-core 25mm (Sq)	Meter	35		
	<b>B: SINGLE CORE CABLES AS A CPC.</b>				
	i) 10mm	Meter	35		
IE-02	<b>CABLE CONDUITS (PVC / RCC / GI / MS PIPES)</b>				
	Supplying, installing, fixing, laying and erecting of cable conduits/pipes for wiring recessed in wall, ceiling, columns, slab, floor ground as and where shown on the drawing or as required as per site conditions etc. including inspection boxes, pull boxes, steel pull wire, hooks, tees, bends, cutting jharries, chases and repairing surfaces etc. complete with all specials. It includes rates for the pipes also. These will consist of as described above but specified as under:				
	i) 1" diameter PVC pipe	Meter	8		
	iii) 2" diameter PVC pipe	Meter	35		
IE-03	<b>DISTRIBUTION BOARD</b>				
	Supply, installation, connection of wires/cables, testing and commissioning of 500 volts, 50 Hz, 3-Phase and neutral distribution boards (DBs) concealed type, wall mounted to be installed as and where shown on drawings, made of M.S. sheet 16 SWG with hinged door, handle, catcher, earthing bar, neutral strip, internal wiring from MCCBs terminating on cable terminal blocks. One coat of antirust and anti-corrosive paint with further two coats of enamelled paint of approved colour, all necessary materials complete in all respects and manufactured by any one of the approved manufacturers: conforming to single line diagram. D.B shall be equipped with the following equipment as shown on drawings.				
1	<b>DBP-FOR OVERHEAD WATER TANK (2-WAYS Distribution)</b>	Job	1		



**PEOPLES UNIVERSTIY OF MEDICAL AND HEALTH SCIENCES FOR WOMEN AT SHAHEED  
BENÁZIRABAD(SINDH)**

**OVER HEAD WATER TANK**

**Electrical Works**

**BILL OF QUANTITIES**

(As Per Market Prevailing Rates)

Sr.No.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE	AMOUNT
				(Rs.)	(Rs.)
IE-4	<b>EARTHING SET</b> P/F earthing set with 2"x 2"x 1/2" copper plate buried in ground at a depth of 12 or less if water comes out from the ground level with salt and chorcoal, etc. in/c. making the pit 12" deep by excavation of all type of soil. Earth plate to be connected with No. 8 S.W.G. bare copper wire run in 1/2" G.I. pipe straight from the earth plate upto the metallic Electrical assesity i/c providing necessary Tee.	Per Rf	1		
IE-5	<b>EARTH CONDUCTOR</b> providing & fixing hard drawn bare copper wire no.10 S.W.G. as earth continuity with any given mains or sub mains in all system of wiring including a suitable down lead from a floor level. Providing and fixing 1" diameter for long lightning conductor with 1/2" dia. nails on its ends as detailed. Providing and fixing 1-1/2" x 1/2" thick copper wire of suitable cable at 12' intervals complete in details.	Per Rf Per Rf Per Meter	120 1 120		
IE-6	<b>CABLE TRENCH</b> Excavation for cable trenches in any type of soil except rock to required depth including de-balling, dressing, back filling around structure with excavated earth, watering ramming and disposing unsuitable and surplus excavated material to a site indicated by Engineer and dewatering where required, shoring, timbering, trimming etc. complete in all respects and as per drawings and standard specification and of the following sizes:				
1	18" wide x 24" deep	Meter	40		
IE-7	<b>CABLE MANHOLES (CABLE CATCH PITS) CABLE INSPECTION PITS</b> Construction of brick manhole 9" thick walls, requisite internal size with cement mortar internal plaster 1:4 RCC 4" thick manhole cover with lifting hooks, including cost of sealing compound to be used to seal the RCC pipes ends for all incoming and outgoing L.T. cables. 2 coats of hot bitumen on the external surface complete in all respects with all necessary materials as per details shown on drawings and of following sizes:				
i.	1.5' x 1.5' x 1.5'	Job	2		
	<b>TOTAL</b>			<b>RS</b>	<b>-</b>