

BOQ For ICT Data Centre Building Electrical Work

ISSUED ON: _____.

ISSUED TO: _____

BD S# : _____

QUAID-E-AWAM UNIVERSITY OF
ENGINEERING, SCIENCE & TECHNOLOGY
NAWABSHAH



TENDER DOCUMENTS

**Electrical Work for ICT Building at QUEST
Nawabshah.**

TERMS AND CONDITIONS

1. GENERAL Terms & Condition

Companies/contractor are requested to read carefully the following terms and conditions and sign the Tender Form in token of having understood and accepted the same in all respects. They are also requested to submit the bid/bids complete in all respect. Tender without 2% earnest money will be out-rightly rejected.

1. The bid documents should be submitted in single stage single envelop basis
2. Company should quote their rates against each item sequence wise on the official format of tender document based on Invoice/Quotation.
3. Bidder has to provide prices as per BOQ & total with GST.
4. Company should produce call deposit / Bid Security 2% of the offered bid in the shape of Pay Order /Bank Draft in the name of QUEST Nawabshah, if failure the tender document will not be entertained.
5. Details of Bid Security Submitted:
Value: _____
Dated: _____
Bank: _____
6. Company must be Registered with Income Tax Department (Valid NTN Certificate)
7. Conditional / incomplete tenders will not be accepted.
8. Telephonic / telexed / faxed / telegraphic quotation will not be entertained.
9. In case of non-conformity with the desired specification, the item shall be replaced by the Supplier free of cost.
10. The bid prices must be valid for at least 90 days from the date of Tender opening.
11. All Government Taxes are applicable on bills.
12. Any bids received after the prescribed date & time for submission of bids shall be returned un-opened to the Company.

BOQ For ICT Data Centre Building Electrical Work

13. QUEST (Tender Committee) reserves the right to reduce or increase the quantity and accept or reject all or any bid and to stop the bidding process and reject all bids under Sindh Public Procurement Rules 2010 (Amended 2013).
14. No cutting/corrections or interpolation will be allowed in the BOQ's.
15. If there is a discrepancy between unit price and total price in the submitted bid which is obtained by multiplying the unit price and quantity, the unit price shall prevail and total price shall be corrected. If there is a discrepancy between the words and figures, the amount in words shall prevail. If there is a mistake in addition/ totaling, that shall be corrected. If the bidder does not accept the corrected amount of bid, his bid shall be rejected and his bid security forfeited
16. For this tender all updates/changes shall be communicated through email and also be posted on QUEST website
17. In case of any dispute between the two parties of any matter arising out of after signing the contract agreement, the case shall be referred to Vice chancellor whose decision shall be final and binding on both parties.
18. Number of equipment and its parts may be increased or decreased as per University requirement based on technical Committee recommendation

2. Document required for ELIGIBILITY:

1. Undertaking of Affidavit that the Firm is not involved in any Litigation or Abandoned any Work in any Department
2. Latest Income Tax Certificate (NTN)
3. The Firm/Contractor should be registered with Sindh Revenue Board
4. Integrity pact need to be furnished on legal stamp paper along with bid.
5. Bidders are required to quote the unit prices of each item and total i.e inclusive of all the taxes applicable by the federal / provincial government

3. SCOPE OF WORK

Following requirements define the scope of work of this tender:

1. The Selected Bidder will be responsible for the supply, installation and commissioning of supplied equipment mentioned in BoQ at Quaid-e-Awam University Nawabshah

BOQ For ICT Data Centre Building Electrical Work

2. Selected Bidder must ensure that the supplied equipment is operational, new, perform properly, and meet RFP's Technical Specification.

4. SELECTION PROCEDURE

1. A Single step process will be used for the selection of a bidder for the award of this tender.
2. Quaid-e-Awam University intent in issuing this Tender Document is to award a contract to the best evaluated and best responsive bidder (Financial)
3. The selection criteria is on best financial bid

5 MEET OR EXCEED SPECIFICATIONS

The specifications provided in this RFP are the minimum requirements of QUEST. The vendors must meet or may exceed these specifications to meet the actual requirements of this Project and its successful practical implementation. But in such a case additionally proposed or altered specifications should clearly be highlighted to enable QUEST to clearly identify modified specifications.

Supplier Initial Signature_____

BOQ For ICT Data Centre Building Electrical Work

BILL OF QUANTITIES FOR INTERNAL AND EXTERNAL ELECTRICAL WORKS OF QUEST ICT DATA CENTRE

Section "A" Internal Electrification

Part I: Items based on schedule Rates 2012

S.NO	ITEM DESCRIPTION	QTY	UNIT	UNIT RATE(RS)	TOTAL AMOUNT(RS)
1	Supply & wiring for main or Sub-main with 3-2.5mmsq. (3-7/.029) S/C, PVC insulated, Cu cables in 3/4" dia PVC conduit recessed in the wall or column as required. Complete in all respect with all accessories.	200	Mtrs.		
2	Supply & wiring for main or Sub-main with 3-4mmsq. (3-7/.036) S/C, PVC insulated, Cu cables in 3/4" dia PVC conduit recessed in the wall or column as required. Complete in all respect with all accessories.	230	Mtrs.		
3	Supply & wiring for light or fan point with 2-1.5mmsq. (2-3/.029) S/C, PVC insulated wire in 20mm (3/4") PVC conduit recessed in the wall or column as required. Complete in all respect with all accessories.	102	Nos.		
4	Providing & fixing One-Way, S.P., 5A flush type Switch. Complete in all respect with all accessories including face-plate, cable termination, & circuit tags.	63	Nos.		
5	Providing & fixing flush type three pin, 5 Amps, S.P., plug socket, Switch and shoe unit. Complete in all respect with all accessories including face-plate, cable termination, & circuit tags.	23	Nos.		
6	Providing, fixing and connecting of flush type, 3 pin, 10/15A, S.P., plug socket, Switch and shoe unit. Complete in all respect with all accessories including face-plate, cable termination, & circuit tags.	19	Nos.		
7	Supply & wiring for main or Sub-main with 3-6mmsq. (3-7/.044) S/C, PVC insulated, Cu cables in 3/4" dia PVC conduit recessed in the wall or column as required. Complete in all respect with all accessories.	500	Mtrs.		
8	Providing & fixing Two-Way, S.P., 5A flush type Switch. Complete in all respect with all accessories including face-plate, cable termination, & circuit tags.	2	Nos.		

TOTAL COST OF PART 'I' (RS)

BOQ For ICT Data Centre Building Electrical Work

Part II: Items based on Non-Schedule Rates

S.NO	ITEM DESCRIPTION	QTY	UNIT	UNIT RATE(RS)	TOTAL AMOUNT(RS)
9	Providing & Fixing of Back Boxes for switch & socket outlets. To be complete in all respect with all accessories.	142	Nos.		
10	Providing & fixing of 20A, DP, Safety Breaker / Isolator for A/C.	20	Nos.		

TOTAL COST OF PART 'II' (RS)

TOTAL COST OF SECTION "A" (PART I + PART II) (RS)

Section "B" Light Fitting & Fixtures

S.NO	ITEM DESCRIPTION	QTY	UNIT	UNIT RATE(RS)	TOTAL AMOUNT(RS)
1	Providing, installing, fixing and connecting of following light fixtures with lamps, chokes, starters, capacitors etc., complete with all the internal connections and all fixing and mounting accessories. Jobs includes rod and wiring as given in drawing.				
1.1	Philips make or equivalent light fitting TCS-299/218 with 2x28 W 'T5' fluorescent lamps having high frequency and high efficiency electronic ballast, complete in respect with all accessories.	30	Nos.		
1.2	Philips make or equivalent light fitting TMS-215/128 with 1x28 W 'T5' fluorescent lamps having high frequency and high efficiency electronic ballast, complete in respect with all accessories.	12	Nos.		
1.3	Philips make or equivalent Surface-Mounted Down lighter FCS-145 with 1x24W CFL lamp having dicast aluminum body. To be approved by client.	28	Nos.		

S.NO	ITEM DESCRIPTION	QTY	UNIT	UNIT RATE(RS)	TOTAL AMOUNT(RS)
1.4	Philips make or equivalent Surface-Mounted Down lighter FCS-120 with 11W CFL lamp having dicast aluminum housing with glass cover. To be approved by client.	7	Nos.		
1.5	Philips make or equivalent Wall-Mounted Bulkhead Light Fixture with 24W CFL lamp having dicast aluminum housing with protective glass cover. To be approved by client.	16	Nos.		

BOQ For ICT Data Centre Building Electrical Work

2	Providing ,installing and connecting of following fans:				
2.1	Pak fan make 56" sweep ceiling fan complete with fan dimmer, canopy, down rod, etc. Including fixing of fan dimmers and making holes on both sides of down rod and also providing of 16mm dia mild steel fan hook on RCC roof or beam as required, complete in all respects with all accessories.	4	Nos.		
2.2	Pak fan make 48" sweep ceiling fan complete with fan dimmer, canopy, down rod, etc. Including fixing of fan dimmers and making holes on both sides of down rod and also providing of 16mm dia mild steel fan hook on RCC roof or beam as required, complete in all respects with all accessories.	13	Nos.		
2.3	Pak fan make or equivalent 18" sweep wall-bracket fan, complete in all respect with all accessories	3	Nos.		
2.4	Pak fa make or equivalent 8" sweep exhaust fan (plastic body), complete with capacitors including making of hole in wall to accommodate the fan & repairing good the damages.	4	Nos.		
2.5	Pak fa make or equivalent 12" sweep exhaust fan (metal body), complete with capacitors including making of hole in wall to accommodate the fan & repairing good the damages. (for Kitchen)	1	Nos.		

TOTAL COST OF SECTION "B"

(RS)

.....

BOQ For ICT Data Centre Building Electrical Work

Section "C" Distribution Boards & Feeders

S.NO	ITEM DESCRIPTION	QTY	UNIT	UNIT RATE(RS)	TOTAL AMOUNT(RS)
	Providing installing, connecting & commissioning of the following Distribution Boards((DB) fabricated of 14 SWG steel clad cubical design with hinged door cover, wall (recessed) mounted, factory assembled, suitable for 3 phase, 4 wire, 500 volts, 50 Hz A.C. Power Supply complete with copper cable lugs, glands, neutral link, earth block, terminal block etc., & having following configurations. (All equipment rated to 7.5KA short circuit rating and 50 ⁰ C ambient temperature at 415v). Panel enclosure to comply with IP-50.				
1.1	<p><u>LDB-G (GROUND FLOOR)</u> Short circuit Rating Ics = 7.5kA @ 400V Incoming 1 - 80 A, T.p., M.C.C.B 3 - Phase (R.Y.B) indication lamps. Outgoing 09 - 10 A, S.P., M.C.B.s 06 - 15 A, S.P., M.C.B.s 15 - 20 A, S.P., M.C.B.s</p>	1	No.		
1.2	<p><u>LDB - F (FIRST FLOOR)</u> Short circuit Rating Ics = 7.5kA @ 400V Incoming 1 - 50 A, T.p., M.C.C.B 3 - Phase (R.Y.B) indication lamps. Outgoing 06 - 10 A, S.P., M.C.B.s 09 - 15 A, S.P., M.C.B.s 12 - 20 A, S.P., M.C.B.s</p>	1	No		
1.3	<p><u>PDB-G (GROUND FLOOR)</u> Short circuit Rating Ics = 7.5kA @ 400V Incoming 1 - 30 A, T.p., M.C.C.B 3 - Phase (R.Y.B) indication lamps. 1 – 30 A, F.P., Selector Switch (For Manual By-pass) Outgoing 12 - 15 A, S.P., M.C.B.s</p>	1	No.		

BOQ For ICT Data Centre Building Electrical Work

S.NO	ITEM DESCRIPTION	QTY	UNIT	UNIT RATE(RS)	TOTAL AMOUNT(RS)
2	Providing, laying & connecting of PVC/PVC 600/1000V grade copper conductor cable from LT panel to the respective Distribution Boards (DBs), recessed in the RCC or on surface / concealed in wall or column as required, complete in all respect with all fixing and termination accessories and entire satisfaction of consultant / Owner.				
2.1	<u>LDB-G (GROUND FLOOR)</u> 16mm ² , 4Core, PVC/PVC + 2 16mm ² ECC in 38mm dia rigid PVC conduct in ground / floor as required from MDB.	8	Mtrs.		
2.2	<u>LDB-F (FIRST FLOOR)</u> 16mm ² , 4Core, PVC/PVC + 2 16mm ² ECC in 38mm dia rigid PVC conduct in ground / floor as required from MDB.	10	Mtrs.		
2.3	<u>LDB-G (GROUND FLOOR)</u> 4mm ² , 4Core, PVC/PVC + 2 4mm ² ECC in 25mm dia rigid PVC conduct in ground / floor as required from MDB.	10	Mtrs.		

TOTAL COST OF SECTION "C"

(RS.)

.....

BOQ For ICT Data Centre Building Electrical Work

Section "D" Earthing

S.NO	ITEM DESCRIPTION	QTY	UNIT	UNIT RATE(RS)	TOTAL AMOUNT(RS)
1	Providing, making and testing of earth points with 2' x 2' x 1/8" thick copper plate buried 5 meter deep or to the depth of permanent water level whichever is less covered with charcoal and lime in specified ratio confirming to specification and drawing.	2	Job		
2	Providing, drawing, connecting & testing of 2 70mm ² bare copper conductor as earthing leads in 32 mm dia G.I. pipe buried in ground or connected in R.C.C or masonry as required from Earth terminal Block to the earth plate including making of 18"x18" cement concrete chamber duly plastered & fixing of plug for watering, complete with all accessories and fasteners and as per drawing & drawing & specifications.	2	Job		
3	Providing, fixing and connecting of 200 x 200 x 5 mm thick copper earth terminal blocks.	2	job		
4	Providing, drawing, connecting & testing of 2 16mm ² bare copper conductor as earthing leads in 32 mm dia G.I. pipe buried in ground or connected in R.C.C or masonry as required from Earth terminal Block to the Main Distribution Panel, complete with all accessories and fasteners and as per drawing & drawing & specifications.	25	Mtrs.		
5	Supply & Wiring of Earthing copper Conductor (ECC) for light or fan point with 1-1.5mmsq. (1-3/.029) PVC insulated wire in 20mm (3/4") PVC conduit recessed in the wall or column as required. Complete in all respect with all accessories.	190	Mtrs.		

TOTAL COST OF SECTION "D"

(RS.)

.....

BOQ For ICT Data Centre Building Electrical Work

Section "A" External Electrification

Part I: Items based on schedule Rates 2012

S.NO	ITEM DESCRIPTION	QTY	UNIT	UNIT RATE(RS)	TOTAL AMOUNT(RS)
1	Supply & wiring for 2-HP pump with 3-6mmsq. (3-7/.029) S/C, PVC insulated, Cu cables in 3/4" dia PVC conduit recessed in the wall or column as required. Complete in all respect with all accessories. (Power circuit) (SI#24 Page # 04)	40	Mtrs.		

COST OF PART "I" (RS.)

Part II: Items based on Non-Schedule Rates

S.NO	ITEM DESCRIPTION	QTY	UNIT	UNIT RATE(RS)	TOTAL AMOUNT(RS)
1	Providing, installing and connecting of Motor starter suitable for 2hp Motor and rated for 1-phase, 240 volts, 50Hz, AC power supply. Complete with bimetal and instantaneous magnetic trip auxiliary contacts, push buttons, single phase protection with metallic insulated enclosure with one insulated terminal for earth, surface mounting type, complete in all respect with all accessories required.	1	Nos.		
2	Providing, installing and connecting of 20Amps, Double pole, 240 volts, MPCB as Main Disconnect switch for pump Motors on 18 SWG sheet steel surface mounted box, anti-rust treated and painted, Complete with 'ON' and 'OFF' indication lamps all other accessories required.	1	Nos.		

COST OF PART "II" (RS.)

TOTAL COST OF SECTION "A" (PART I + PART II) (RS)

BOQ For ICT Data Centre Building Electrical Work

Section "B" Distribution Boards & Feeders

S.NO	ITEM DESCRIPTION	QTY	UNIT	UNIT RATE(RS)	TOTAL AMOUNT(RS)
1	Providing of main LT panel fabricated of 14 SWG steel clad, free standing , outdoor weather proof, floor mounting type for 3 phase, 500 volts, 50 Hz A.C. Power Supply and following configurations. (All equipment to be rated minimum 25KA short circuit rating and 50 ⁰ C ambient temperature at 415v). Panel enclosure IP-rating to comply for weatherproof Outdoor Installation.				
1.1	<p>LDB-G (GROUND FLOOR) Short circuit Rating Ics = 25kA @ 400V</p> <p>Incoming 1 - 125A, T.p., M.C.C.B(Adjustable) 3- Current transformer 125/5A 1- Amp meter (0-125) with Ammeter selector switch (ASS). 1- Voltmeter (0-125) with Voltmeter selector switch (VSS). 1- kWhr Meter 2- ON/OFF indication lamps.</p> <p>Outgoing 02 - 80 A, S.P., M.C.C.B 01 - 15 A, S.P., M.C.C.B 02 - 20 A, S.P., M.C.C.B</p>	1	No.		

TOTAL COST OF SECTION "B" (RS.)

Section "C" Main Feeder Cables

S.NO	ITEM DESCRIPTION	QTY	UNIT	UNIT RATE(RS)	TOTAL AMOUNT(RS)
1	Providing, laying & connecting of 70 mmsq., 4 Core, PVC/SWAP/PVC from Nearest Substation to MDBI laid in ground in RCC pipe including digging of earth and making of CC Manhole with covers at required distances for pulling of cables. Job also involves refilling of Earth and providing cable maker for route of LT cable as per specifications.	40	Metr.		

TOTAL COST OF SECTION "C" (RS.)

**OVERALL SUMMARY OF BILLS OF QUANTITIES FOR
INTERNAL & EXTERNAL ELECTRICAL WORKS OF
ICT DATA CENTRE
Q.U.E.S.T., NAWABSHAH**

S.NO	Description	Total Amount (RS.)
1	Internal Electrification	
2	External Electrification	

TOTAL COST (Internal & External) with Tax (RS)

Signature

Designation

Company Name

Address