



REPUBLIC OF GHANA

UNIVERSITY OF GHANA

**TENDER EVALUATION REPORT
AND RECOMMENDATION FOR AWARD OF CONTRACT**

FOR

**CONSTRUCTION AND COMPLETION OF PROPOSED BUILDING
FOR WEST AFRICAN CENTRE FOR CROP IMPROVEMENT
(WACCI) PHASE 2 - UNIVERSITY OF GHANA
(SUPPLY AND INSTALLATION OF ELECTRICAL, MECHANICAL, FIRE FIGHTING,
INTERNET, LABORATORY HARDWARE EQUIPMENTS AND OTHER SPECIALIST
WORKS)**

National Competitive Tendering

UG/WK/ACE-WACCI/P2/04/2017

Consultants

Physical Development and Municipal Services Directorate

University of Ghana

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TAL Consult

Accra

JULY, 2017

PRICED BILL OF QUANTITIES

CONSTRUCTION AND COMPLETION OF
PROPOSED BUILDING FOR WEST AFRICA
CENTRE FOR CROP IMPROVEMENT-
UNIVERSITY OF GHANA (PHASE 2)

BILL No.1

PRELIMINARIES
GHCedi/Pesewas

Item

Qty Unit Rate

- " " 1/5
- " " 1/6
- " " 1/7
- " " 1/8
- " " 1/9
- " " 1/10
- " " 1/11
- " " 1/12
- " " 1/13
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- " " 1/20
- " " 1/21
- " " 1/22
- " " 1/23
- " " 1/24
- " " 1/25
- " " 1/26

50,000.00
20,000.00

5,000.00

2,000.00

2,000.00

11,000.00

10,000.00

GENERAL CONDITIONS AND PRELIMINARIES
CARRIED TO GENERAL SUMMARY

GH¢ 100,000.00

ITEM	DESCRIPTION	QTY	UNIT	RATE GH¢	AMOUNT GH¢
	B/F				662,941.00
A	5/8 Dia. X2m threaded 254om-meter Cubond ea rod.	6	No	350.00	2,100.00
B	AT-001G Lightning event counter	1	No	1,500.00	1,500.00
C	AT-010H Polypropylene earth pit	2	No	250.00	500.00
D	AT-020H 235x40x25mm bonded bar for earth pit	2	No	350.00	700.00
E	AT-010L Conductivity plus gel	2	No	200.00	400.00
F	AT-011F Naval brass cable + tape parallel clamp	2	No	65.00	130.00
G	AT-090H Earth rod multipurpose clamp	6	No	300.00	1,800.00
H	AT-041E Conical roof conductor(Empty)	28	No	80.00	2,240.00
J	AT-020F Naval brass square tape and cable clam	1	No	65.00	65.00
K	2m galvanized steel guard tube for tape	2	No	160.00	320.00
	A-030E Nylon conductor clip with 17 mm height <u>UPS-20KVA</u>	48	No	15.00	720.00
L	Supplying, installing , connecting and testing 415V, 3phase UPS,,complete with by pass switch and inbuilt AVR including all necessaery accessories and ancillary works and materials required for complete installation as specified and indicated on the drawings	3	No.	54,145.00	162,435.00
	<u>SUPPLY AND INSTALLATION OF ELECTRICAL/FIRE FIGHTING /INTERNET EQUIPMENTS</u>				
	CARRIED TO SUMMARY				835,851.00

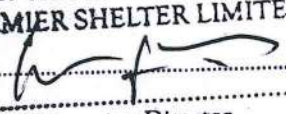

Description	QTY	Unit	RATE GH¢	AMOUNT GH¢
CONSTRUCTION AND COMPLETION OF PROPOSED BUILDING FOR WEST AFRICA CENTRE FOR CROP IMPROVEMENT-UNIVERSITY OF GHANA (PHASE 2)				
SUPPLY AND INSTALLATION OF MECHANICAL /PLUMBING EQUIPMENTS				
GROUND FLOOR				
COOLING EQUIPMENTS				
Supply and install the following Split system comprising of single circuit air-cooled condensing(outdoor) unit and indoor unit(evaporator) pre charge with Refrigerant R410A or 407C				
Celling cassette units Air condition units (14.2kw, 48,000btu/hr.,) Cooling capacity Electrical Load: KW	2	no	11,830.00	23,760.00
Air-condition 18KW 60, 000btu/hr	2	No.	14,850.00	29,700.00
Split unit Air condition units (7.1kw, 24,000btu/hr.,) Cooling capacity Electrical Load:	7	no	2,790.00	19,530.00
Air condition units (5.3kw, 18,000btu/hr.,) Cooling capacity Electrical Load:	2	no	2,295.00	4,590.00
Air condition units (3.2kw, 12,000btu/hr.,) Cooling capacity Electrical Load:	6	no	1,800.00	10,800.00
Fabricate and install burglar proof for air-conditioners	Lot			30,000
other accessories materials require to complete installation	Lot			20,000
COLD ROOM INSTALLATION supply and installed complete 5kw cold room unit with control panel. Includes 100mm thick sand wish panel,door, air curtain and all installation accessories	1	No.		14,400.00
Test run and commission	Lot			2,000
GROUND FLOOR				
Carried to Summary				<u>154,780.00</u>

Description	QTY	Unit	RATE GH¢	AMOUNT GH¢
CONSTRUCTION AND COMPLETION OF PROPOSED BUILDING FOR WEST AFRICA CENTRE FOR CROP IMPROVEMENT-UNIVERSITY OF GHANA				
SUPPLY AND INSTALLATION OF MECHANICAL / PLUMBING EQUIPMENTS				
FIRST FLOOR				
COOLING EQUIPMENTS				
Supply and Install the following split system comprising of single circuit air-cooled condensing(outdoor) unit and indoor unit(evaporator) pre charge with Refrigerant R410A or 407C				
Ceiling cassette units				
Air condition units (14.2kw, 48,000btu/hr.,) Cooling capacity	1	no	11,700.00	11,700.00
Air condition units (18kw, 60,000btu/hr.,) Cooling capacity	2	No.	14,400.00	28,800.00
Air condition units (7.1kw, 24,000btu/hr.,) Cooling capacity Electrical Load:	5	no	5,850.00	29,250.00
Air condition units (3.2kw, 12,000btu/hr.,) Cooling capacity Electrical Load:	11	no	4,950.00	54,450.00
Fabricate and Install burglar proof for air-conditioners	Lot			30,000.00
other accessories materials require to complete installation	Lot			20,000.00
Test run and commission/Test run and commission				2,000
FIRST FLOOR				
Carried to Summary				176,200.00

Description	QTY	Unit	RATE GH¢	AMOUNT GH¢
CONSTRUCTION AND COMPLETION OF PROPOSED BUILDING FOR WEST AFRICA CENTRE FOR CROP IMPROVEMENT- UNIVERSITY OF GHANA				
SUPPLY AND INSTALLATION OF MECHANICAL/PLUMBING EQUIPMENTS				
SECOND FLOOR				
COOLING EQUIPMENTS				
Supply and install the following				
Split system comprising of single circuit air-cooled condensing(outdoor) unit and indoor unit(evaporator) pre charge with Refrigerant R410A or 407C				
Cooling capacity 100,000 btu/hr (29.6kw) Electrical load kw	2	no	18,135.00	36,270.00
Cooling capacity 100,000 btu/hr (29.6kw) Electrical load kw	2	No.	18,135.00	36,270.00
Air condition units (18kw, 60,000btu/hr.,) Cooling capacity	2	No.	11,740.00	23,480.00
Air condition units (7.1kw, 24,000btu/hr.,) Cooling capacity Electrical Load:	5	no	2,700.00	13,500.00
Air condition units (5.3kw, 18,000btu/hr.,) Cooling capacity	3	No.	2,250.00	6,750.00
Air condition units (3.2kw, 12,000btu/hr.,) Cooling capacity Electrical Load:	3	no	2,520.00	7,560.00
Allow for provision of extraction systems	Lot			15,000
Allow for provision of HEPA Filter (clean filters)	Lot			12,000
Allow for provision of Air-Condition duct works	Lot			25,000
Allow for provision of Air curtain	Lot			6,000
Allow for pipe works/Electricals and Drainage works	Lot			24,000
				5,400.00
KITCHEN NET				
Supply and installation complete 1200mm x 500mm kitchen hood with centrifugal fan PVC duct and all installation accessories				
Supply and installation of burglar proof systems for air conditioners	Lot			30,000
Test run and commission/Test run and commission	Item			2,000
other accessories materials require to complete installation	Lot			20,000
SECOND FLOOR				
Carried to Summary				
				263,230.00

Description	QTY	Unit	RATE GH¢	AMOUNT GH¢
<u>SUPPLY AND INSTALLATION OF SCIENCE LABORATORY HARDWARE AND OTHER SPECIALIST WORKS</u>				
Allow a provisional sum of 1 million five hundred thousand ghana cedis for supply and Installation of laboratory hardware (such as laboratory worktop, stool etc.) as to be directed by the project consultant and client				1,500,000
supply and Installation of 10mm thick glass curtain wall including all metal works and accessories size 1800mm x 9000mm	17	m ²	2,400.00	40,800.00
supply and Installation of 10mm thick glass curtain wall including all metal works and accessories size 4700mm x 6700mm including 1800mm x 3400mm door	32	m ²	2,475.00	79,200.00
sound proof windows size 2700 x 1800mm	6	No.	20,970.00	125,820.00
Sound proof windows size 4420mm x 1800mm	1	No.	34,362.00	34,362.00
supply and Installation of sound proof doors size 1800mm x 2500mm	2	No.	19,600.00	39,200.00
supply and Installation of sound proof doors size 900mm x 2100mm	2	No.	8,163.00	16,326.00
Allow for Prefabrication and Installation of Metal Latices at frontage of building	Lot			60,000
Connection water and other accessories by GWCL	Lot			10,000
Allow for supply and Installation internal glazed wall partitioning	Lot			120,000.00
<u>SUPPLY AND INSTALLATION OF SCIENCE LABORATORY HARDWARE AND OTHER SPECIALIST WORKS</u>				
Carried to Summary				<u>2,025,708.00</u>

ITEM	DESCRIPTION	QTY	UNIT	RATE(GHC)	AMOUNT(GHC)
	<u>INTERNAL / EXTERNAL WATER TANK AND PUMP</u>				
A	Internal GRP water tank with dimension 6M*3M*2M, total volume 36 m3	2	no	90,000.00	180,000.00
B	Living pumps (one is in use, the other is spare), head of delivery 30m, power 6kw, 3 phase	2	no	5,400.00	10,800.00
C	Fire pump (one is in use, the other is spare), head of delivery 30m, power 6kw, 3 phase	2	no	5,400.00	10,800.00
D	100 mm diameter valve	4	no	810.00	3,240.00
E	80 mm diameter valve	6	no	720.00	4,320.00
F	80 mm check diameter valve	16	no	720.00	11,520.00
G	50 mm diameter valve	16	no	540.00	8,640.00
H	80 mm diameter flange	6	no	117.00	702.00
J	80 mm diameter PVC pipe	50	m	36.00	1,800.00
K	80*50 mm diameter PVC reducer	12	no	27.00	324.00
L	50 mm diameter male threaded joint	15	no	54.00	810.00
M	50 mm diameter check valve	8	no	360.00	2,880.00
N	50 mm diameter float valve	7	no	270.00	1,890.00
O	50 mm X 90° diameter PVC elbow	12	no	36.00	432.00
P	50 mm diameter PVC tee	15	no	40.00	600.00
Q	50 mm diameter PVC straights pipe	80	m	72.00	5,760.00
R	Water level controller	7	no	225.00	1,575.00
	<u>RAINWATER PIPES</u>				
S	Supply and install the following class 'B' PVC supply pipes and fittings jointed with solvent cement				
T	100 mm diameter PVC Pipe	130	m	40.00	5,200.00
U	100*45°mm diameter PVC Elbow	60	no	58.00	3,480.00
V	100*90°mm diameter PVC Elbow	35	no	58.00	2,030.00
W	100 mm diameter clamp for pvc vertical pipe	1	lot		450.00
X	100 mm diameter rainwater outlet	1	lot		450.00
	<u>INTERNAL / EXTERNAL WATER TANK AND PUMP</u>				
	Carried to Summary				
					257,703.00

Description	QTY	Unit	RATE GH¢	AMOUNT GH¢
CONSTRUCTION AND COMPLETION OF PROPOSED BUILDING FOR WEST AFRICA CENTRE FOR CROP IMPROVEMENT (WACCI) UNIVERSITY OF GHANA (ELECTRICAL/MECHANICAL/FIRE/INTERNET/LABORATORY HARDWARE EQUIPMENTS AND OTHER SPECIALIST WORKS- PHASE 2)				
SUMMARY				
PRELIMINARIES AND GENERAL CONDITIONS OF CONTRACT				100,000.00
SUPPLY AND INSTALLATION OF ELECTRICAL/FIRE FIGHTING /INTERNET EQUIPMENTS				835,851.00
SUPPLY AND INSTALLATION OF MECHANICAL/PLUMBING EQUIPMENTS (GROUND FLOOR)				154,780.00
SUPPLY AND INSTALLATION OF MECHANICAL/PLUMBING EQUIPMENTS (FIRST FLOOR)				176,200.00
SUPPLY AND INSTALLATION OF MECHANICAL/PLUMBING EQUIPMENTS (SECOND FLOOR)				263,230.00
SUPPLY AND INSTALLATION OF SCIENCE LABORATORY HARDWARE AND OTHER SPECIALIST WORKS				2,025,708.00
INTERNAL / EXTERNAL WATER TANK AND PUMP				257,703.00
DAYWORKS				20,390.00
SUB-TOTAL				3,833,862.00
ALLOW FOR THE FOLLOWING				38,338.62
Insurance against injury to persons and property as per contract conditions				383,386.20
ADD: CONTINGENCIES (10% OF SUB-TOTAL)				4,255,586.82
TOTAL CARRIED TO FORM OF TENDER				3,874,600.00
			LESS DISCOUNT	375,986.82
SIGNED.....  Managing Director				
DATE..... 11/05/17				
			 Managing Director	